



REPUBLIK INDONESIA
KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

SURAT PENCATATAN CIPTAAN

Dalam rangka perlindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan : EC00202146604, 14 September 2021

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Kewarganegaraan : Indonesia

Pemegang Hak Cipta

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Jenis Ciptaan : **Program Komputer**

Judul Ciptaan : **Aplikasi Ngresiki**

Tanggal dan tempat diumumkan untuk pertama kali : 24 Agustus 2021, di Yogyakarta
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Jangka waktu perlindungan : Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman.

Nomor pencatatan : 000272464

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.

Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.

a.n. MENTERI HUKUM DAN HAK ASASI MANUSIA
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL



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Disclaimer:

Dalam hal pemohon memberikan keterangan tidak sesuai dengan surat pernyataan, menteri berwenang untuk mencabut surat pencatatan permohonan.

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5	Gabriel Naka Sorateleng	Dusun XI, RT 002/RW 011, Ponco Warno, Kalirejo, Lampung Tengah, Lampung

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1	Astika Ayuningtyas	Kemit RT 009/RW 004, Pepe, Ngawen, Klaten, Jawa Tengah
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BUKU PETUNJUK PENGGUNAAN APLIKASI

(USER MANUAL GUIDE)

APLIKASI BERBASIS ANDROID

NGRESIKI



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2021

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A. PENDAHULUAN

1. Umum

Aplikasi Ngresiki merupakan aplikasi yang diperuntukkan untuk masyarakat umum yaitu pengelola wisata dan petugas kebersihan dalam melakukan monitoring pelaporan sampah dari pengelola wisata. Aplikasi ini mengambil studi kasus pada obyek wisata di Kabupaten Gunungkidul.

2. Tujuan Pembuatan Dokumen

Dokumen *user manual guide* aplikasi berbasis Android Ngresiki dibuat untuk tujuan sebagai berikut:

1. Menggambarkan dan menjelaskan penggunaan aplikasi Ngresiki untuk pengguna sebagai petugas kebersihan dan pengelola wisata sebagai pelapor.
2. Sebagai panduan instalasi dan penggunaan aplikasi Ngresiki.
3. Memudahkan pelaku wisata baik penyedia tempat wisata ataupun wisatawan dalam menjaga kebersihan lokasi wisata sehingga kenyamanan dapat tercapai

3. Deskripsi Umum Aplikasi

Deskripsi umum aplikasi meliputi fungsi utama aplikasi Ngresiki merupakan aplikasi yang diharapkan dapat membantu petugas dari Dinas Lingkungan Hidup dan Dinas Pariwisata sebagai pengelola tempat wisata untuk mendapatkan informasi dimana terjadinya penumpukan sampah. Selain itu aplikasi Ngresiki ini juga diperuntukkan untuk pengelola wisata sebagai pelapor.

Aplikasi Ngresiki sampah merupakan aplikasi pelaporan sehingga dibutuhkan performa yang tinggi dalam pengolahan data serta kompleksitas fitur yang dapat digunakan untuk memudahkan pelator dan penerima laporan. Google menawarkan sebuah platform *BackEnd as a Service (BaaS)* yang bernama Firebase. Firebase memiliki kompleksitas fitur dan fungsi dengan performa yang tinggi, serta kemudahan dalam penggunaan baik dari segi pengembangan aplikasi maupun penggunaan fitur, sehingga dapat memudahkan pelapor dan penerima laporan sampah.

Informasi yang dihasilkan oleh aplikasi Ngresiki berupa gambar tumpukan sampah, lokasi detail yang dapat ditunjukkan menggunakan peta, tanggal dan waktu pelaporan serta keluhan sehingga memudahkan bagi pengelola kebersihan dan lokasi wisata untuk menanggulangi keluhan kebersihan.

4. Deskripsi Umum Kebutuhan Aplikasi

Deskripsi umum kebutuhan aplikasi yang akan diimplementasikan meliputi semua informasi mengenai daftar laporan masyarakat, gambar tumpukan sampah, data nomor telepon selular pelapor/petugas, lokasi tumpukan sampah yang dilengkapi dengan petunjuk arah, status laporan, gambar proses pelaksanaan pembersihan lokasi tumpukan sampah, dan ulasan dari masyarakat.

5. Deskripsi Dokumen

Dokumen buku petunjuk penggunaan aplikasi (*User Manual Guide*) dibuat untuk memberikan panduan penggunaan aplikasi Ngresiki bagi Petugas kebersihan dan pengelola tempat wisata.

B. PERANGKAT YANG DIBUTUHKAN

1. Perangkat Keras

Perangkat keras yang digunakan berupa *smartphone* yang dilengkapi dengan kamera dan *Global Position System* (GPS)

2. Perangkat Lunak

Perangkat lunak yang digunakan dalam aplikasi Ngresiki berupa Sistem Operasi Android dengan versi Android minimal Lollipop, dengan SDK minimal SDK 21.

3. Pengguna Aplikasi

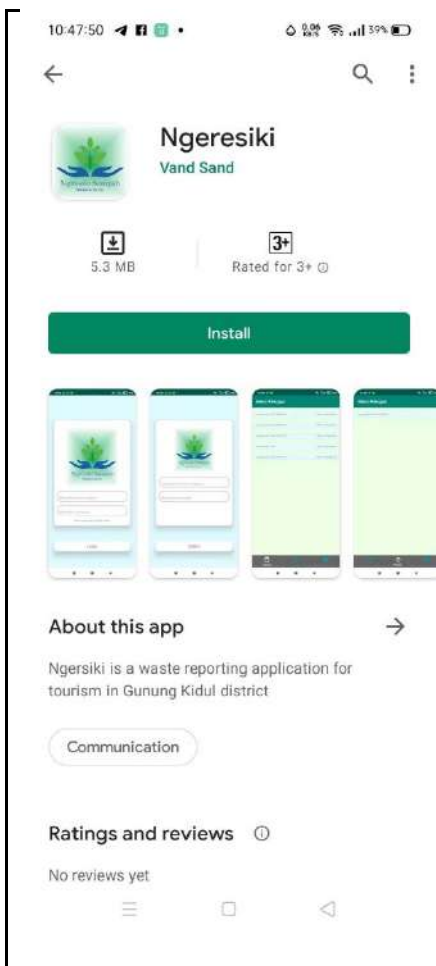
Aplikasi ini ditujukan bagi pengguna yang berstatus sebagai berikut:

- a) Petugas kebersihan baik dari Dinas Lingkungan Hidup ataupun Dinas Pariwisata yang mengelola lokasi wisata,
- b) Pelapor yang merupakan pengelola wisata

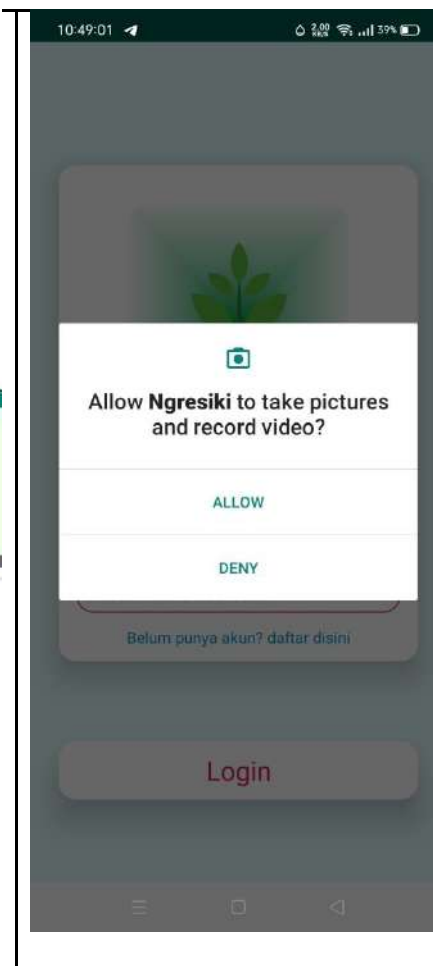
C. CARA PENGGUNAAN

1. Cara Mendapatkan Aplikasi

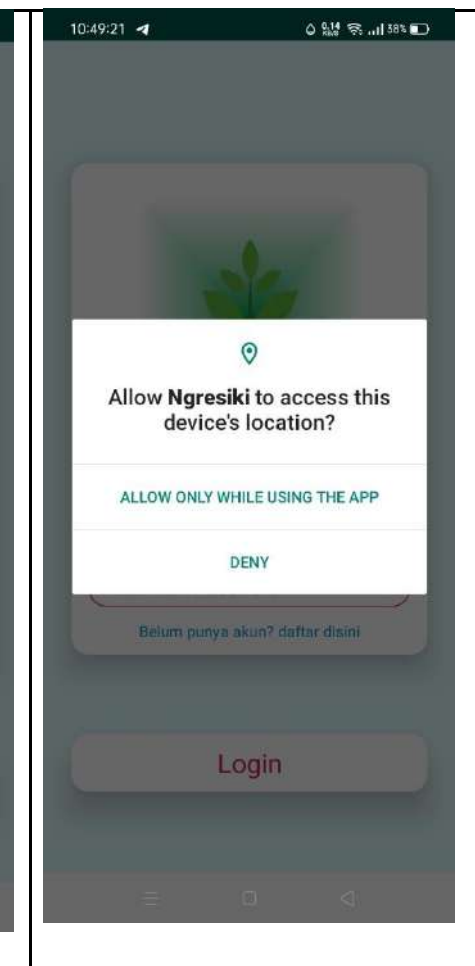
- Aplikasi dapat diunduh melalui aplikasi Play store pada Android dengan kata kunci “Ngresiki”. Gambar 1 merupakan tampilan aplikasi Ngresiki pada Playstore Android.
- Install aplikasi dengan cara mengklik tombol install. Setelah aplikasi berhasil diinstall, aplikasi Ngresiki akan meminta ijin pada user agar dapat menggunakan kamera untuk mengambil gambar dan video, Gambar 2 merupakan tampilan permintaan ijin untuk mengambil gambar dan video.
- Selanjutnya aplikasi akan meminta ijin pada user untuk mengakses GPS sehingga lokasi pada saat aplikasi Ngresiki ini dijalankan dapat terdeteksi. Gambar 3 merupakan tampilan permintaan ijin untuk mengakses lokasi perangkat.



Gambar 1.



Gambar 2



Gambar 3

2. Login Petugas

Setelah proses instalasi aplikasi Ngresiki selesai, user baik petugas maupun pelapor diarahkan untuk mendaftarkan terlebih dahulu sebelum melakukan login ke aplikasi. Data yang didaftarkan berupa No Telepon selular/*HandPhone* dan *password*. Langkah- Langkah proses pendaftaran hingga proses login adalah sebagai berikut:

- a) Klik Open Aplikasi Ngresiki
- b) Tampilan halaman Login akan tampil setelah kita membuka aplikasi Ngresiki Gambar 4 merupakan tampilan halaman login.



- c) Jika user baik itu petugas ataupun pelapor belum memiliki akun, maka harus mendaftarkan akun terlebih dahulu dengan no handphone sebagai username, Gambar 5 merupakan tampilan halaman daftar.

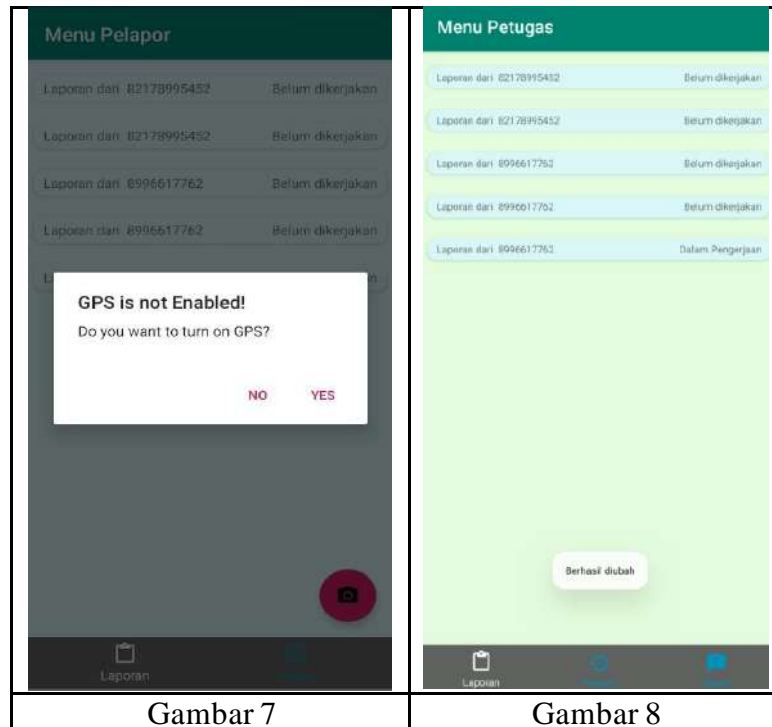


- d) User akan diminta untuk memasukkan no handphone dan Password yang merupakan rangkaian proses daftar. Kemudian saat user menekan tombol daftar, maka user akan menerima Kode *One Time Password* (OTP) yang dikirimkan via *Sort Message Service* (SMS) pada nomor yang terdaftar.
- e) Kode OTP akan otomatis terinput ke dalam text masukkan OTP jika user menginstall aplikasi pada smartphone dengan no handphone yang terdaftar, yang selanjutnya akan di verifikasi oleh sistem. Gambar 6 merupakan tampilan halaman verifikasi OTP.



Gambar 6

- f) Setelah selesai melakukan pendaftaran, user akan diarahkan ke halaman Menu, pada halaman menu, aplikasi akan mengecek apakah GPS dalam keadaan hidup atau tidak, jika tidak maka akan meminta ijin untuk menghidupkan GPS. Gambar 7 merupakan tampilan halaman menu jika kondisi GPS dalam keadaan mati. Gambar 8 merupakan Halaman Menu utama jika kondisi GPS dalam keadaan aktif/hidup.



3. Menu Utama

- a) Menu Utama merupakan halaman yang berisi laporan penumpukan sampah, data yang ditampilkan berupa no handphone pelapor dan status penanganan penumpukan sampah. Gambar 8 merupakan tampilan halaman Menu utama.
- b) Jika salah satu data laporan di klik maka akan muncul data detail laporan. Gambar 9 merupakan tampilan halaman detail laporan pada aplikasi Ngresiki. Pada halaman detail laporan berisi data gambar penumpukan sampah, koordinat lokasi, dan data no handphone pelapor.



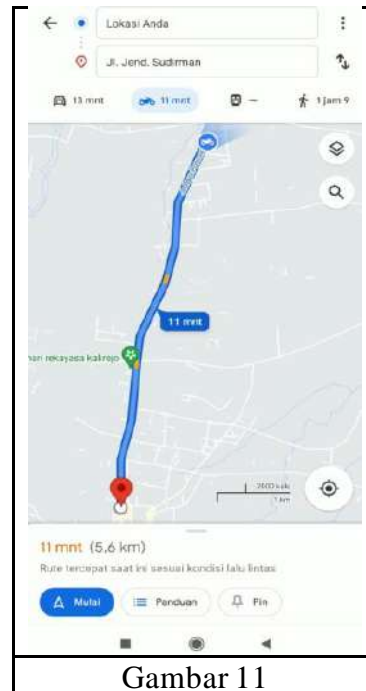
Gambar 9

- c) Jika tombol lihat lokasi di klik, maka akan tampil peta lokasi penumpukan sampah melalui google street view. Gambar 10 merupakan tampilan google street view penumpukan sampah.



Gambar 10

- d) Jika tombol tunjukkan arah di klik, maka akan tampil peta lokasi melalui Google Map. Gambar 11 merupakan tampilan rute lokasi penumpukan sampah.



Gambar 11

- e) Tombol Proses berfungsi untuk merubah status laporan sampah yang dari “Belum dikerjakan” menjadi “Sedang dikerjakan”.
- f) Petugas akan diminta untuk mengunggah foto kondisi lokasi yang telah selesai dibersihkan. Gambar 12 merupakan tampilan proses mengunggah foto kondisi lokasi yang telah selesai dibersihkan.



Gambar 12

- g) Ketika petugas berhasil mengunggah foto selesai, maka tampilan pada list menu akan berubah menjadi “Selesai dikerjakan” Gambar 13 merupakan tampilan menu petugas Ketika selesai dikerjakan .



Gambar 13

4. MENU RIWAYAT

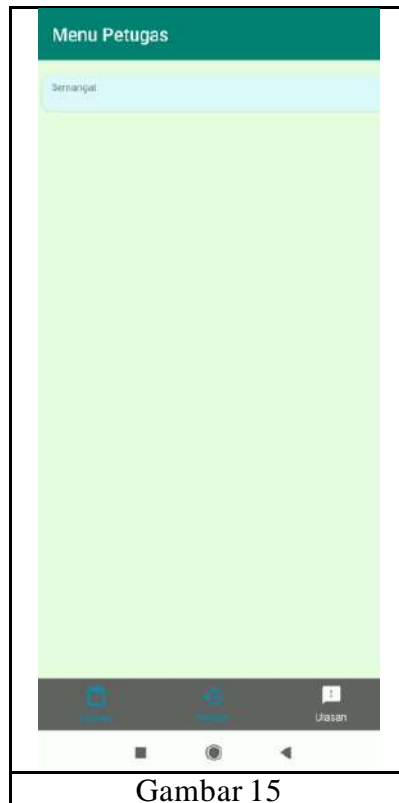
Menu Riwayat berisi list Riwayat lokasi yang telah selesai dikerjakan. Gambar 14 merupakan tampilan halaman menu Riwayat.



Gambar 14

5. MENU ULASAN

Menu ulasan berisi ulasan dari pelapor atas kepuasan pelayanan terhadap penanganan penumpukan sampah. Gambar 15 merupakan tampilan halaman ulasan.



Gambar 15

6. LOGIN PELAPOR

Pelapor yang sudah mempunyai akun memasukkan nomor telepon yang sudah terdaftar dan memasukkan password. Calon pelapor yang belum mempunyai akun harus mendaftar dahulu, tekan tulisan “belum punya akun? Daftar disini” maka akan menuju ke menu daftar pelapor.

Pelapor memasukkan nomor handphone dan password (dapat dilihat pada Gambar 16) setelah semua sudah dimasukan tekan tombol daftar, beberapa saat akan muncul kode OTP yang otomatis masuk ke pesan. Masukan kode OTP untuk memverifikasi nomor handphone yang didaftarkan. Tekan tombol verifikasi untuk melanjutkan ke menu login.



Gambar 16

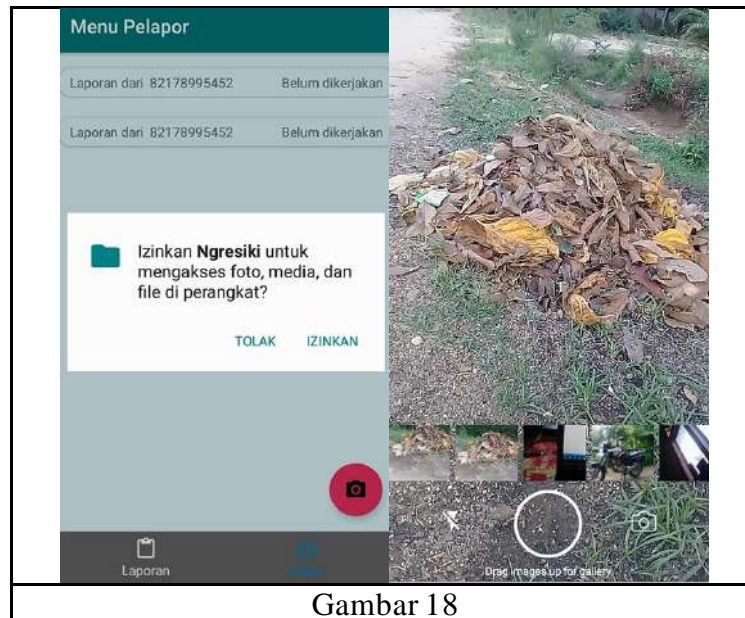
7. MENU PELAPOR

Pada menu laporan (Gambar 17) terdapat tombol kamera yang berfungsi untuk mengambil foto penumpukan sampah.



Gambar 17

Saat pelapor menekan tombol foto yang berada pada menu laporan pelapor mengambil foto secara langsung (Gambar 18) karena ketika mengambil atau mengupload melalui foto yang berada di galeri maka koordinat lokasi tidak akan terbaca karena foto yang berada di galeri tidak terdapat titik lokasi. Pelapor diharuskan mengambil foto secara langsung dan pastikan lokasi sudah aktif.



Gambar 18

Pelapor yang sudah mengambil foto penumpukan mengirimkan foto ke petugas (Gambar 19). Pengulangan pengambilan foto bisa dilakukan saat pelapor menekan tombol kembali maka akan muncul tampilan “apakah anda yakin untuk membatalkannya”, terdapat pilihan, “Ya” dan “Tidak”, jika pelapor ingin mengulang pengambilan foto maka pilih ya, jika tidak pilih tidak.



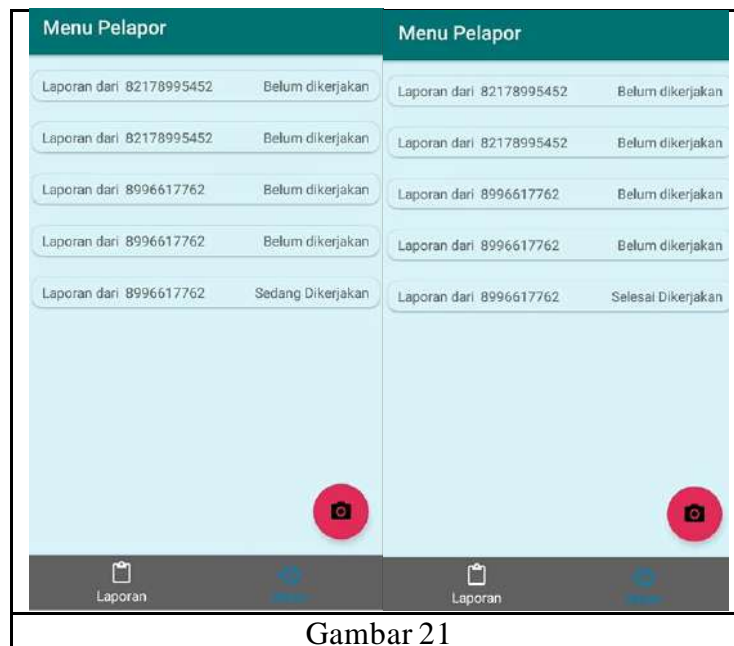
Gambar 19

Laporan yang berhasil ter-*upload* maka akan muncul pesan success, laporan telah masuk ke petugas (Gambar 20).



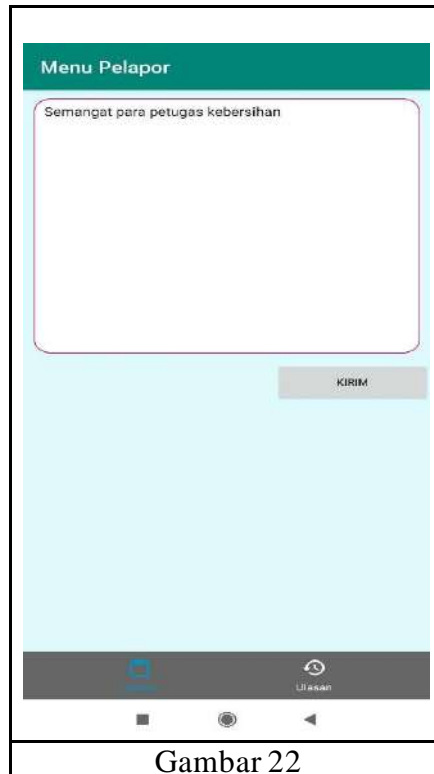
Gambar 20

Status laporan yang berubah menjadi “sudah dikerjakan” pelapor dapat melihat foto sebelum dan sesudah laporan sampah (Gambar 21). Pelapor dapat mengecek apakah titik lokasi sudah benar dengan menekan tombol “tunjukkan arah”.



Gambar 21

Pelapor dapat memberikan ulasan pada petugas kebersihan dapat berupa saran dan kritik (Gambar 22).



8. LOGOUT PETUGAS

Tombol Kembali atau Back pada Smartphone digunakan untuk keluar/logout dari aplikasi.

SOURCE CODE
APLIKASI BERBASIS ANDROID
NGRESIKI



Oleh:

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Gabriel Naka Sorateleng, S.Kom.

2021

1. Splash Screen

a. Desain

```
<html>
<head>
<title>activity_splash.xml</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
.s0 { color: #e8bf6a;}
.s1 { color: #bababa;}
.s2 { color: #6a8759;}
.s3 { color: #a9b7c6;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
activity_splash.xml</font>
</center></td></tr></table>
<pre><a name="l1"><span class="ln">1    </span></a><span
class="s0">&lt;?</span><span class="s1">xml version</span><span
class="s2">=&quot;1.0&quot;; </span><span
class="s1">encoding</span><span class="s2">=&quot;utf-
8&quot;;</span><span class="s0">?&gt;</span>
<a name="l2"><span class="ln">2    </span></a><span
class="s0">&lt;androidx.constraintlayout.widget.ConstraintLayout
</span><span class="s1">xmlns:android</span><span
class="s2">=&quot;http://schemas.android.com/apk/res/android&quot;;
</span>
<a name="l3"><span class="ln">3    </span></a>    <span
class="s1">xmlns:app</span><span
class="s2">=&quot;http://schemas.android.com/apk/res-
auto&quot;;</span>
<a name="l4"><span class="ln">4    </span></a>    <span
class="s1">xmlns:tools</span><span
class="s2">=&quot;http://schemas.android.com/tools&quot;;</span>
<a name="l5"><span class="ln">5    </span></a>    <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="l6"><span class="ln">6    </span></a>    <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="l7"><span class="ln">7    </span></a>    <span
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class="s2">=&quot;center&quot;;</span>
<a name="l8"><span class="ln">8    </span></a>    <span
class="s1">android:background</span><span
class="s2">=&quot;#fff&quot;;</span>
<a name="l9"><span class="ln">9    </span></a>    <span
class="s1">tools:context</span><span
class="s2">=.view.splash.SplashActivity&quot;;</span><span
class="s0">&gt;</span>
<a name="l10"><span class="ln">10   </span></a></pre>
<a name="l11"><span class="ln">11   </span></a>    <span
class="s0">&lt;ImageView</span>
<a name="l12"><span class="ln">12   </span></a>    <span
```

```

class="s1">android:layout_width</span><span
class="s2">=&quot;350dp&quot;</span>
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class="s1">android:layout_height</span><span
class="s2">=&quot;451dp&quot;</span>
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<a name="l15"><span class="ln">15 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/splsh&quot;</span>
<a name="l16"><span class="ln">16 </span></a> <span
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class="s2">=&quot;@string/app_name&quot;</span>
<a name="l17"><span class="ln">17 </span></a> <span
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class="s2">=&quot;parent&quot;</span>
<a name="l18"><span class="ln">18 </span></a> <span
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class="s2">=&quot;parent&quot;</span>
<a name="l19"><span class="ln">19 </span></a> <span
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class="s2">=&quot;parent&quot;</span>
<a name="l20"><span class="ln">20 </span></a> <span
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class="s2">=&quot;parent&quot;</span><span class="s0">/&gt;</span>
<a name="l21"><span class="ln">21 </span></a>
<a name="l22"><span class="ln">22 </span></a>
<a name="l23"><span class="ln">23 </span></a>
<a name="l24"><span class="ln">24 </span></a>
<a name="l25"><span class="ln">25 </span></a><span
class="s0">&lt;/androidx.constraintlayout.widget.ConstraintLayout&
gt;</span></pre>
</body>
</html>

```

b. code

```

<html>
<head>
<title>SplashActivity.kt</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-
8">
<style type="text/css">
.s0 { color: #cc7832;}
.s1 { color: #a9b7c6;}
.s2 { color: #6897bb;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
SplashActivity.kt</font>
</center></td></tr></table>
<pre><a name="l1"><span class="ln">1 </span></a><span
class="s0">package </span><span
class="s1">stta.gabriel.ta_gabriel.view.splash</span>
<a name="l2"><span class="ln">2 </span></a></pre>

```

```

<a name="13"><span class="ln">3 </span></a><span
class="s1">import android.content.Intent</span>
<a name="14"><span class="ln">4 </span></a><span
class="s1">import android.content.SharedPreferences</span>
<a name="15"><span class="ln">5 </span></a><span
class="s1">import androidx.appcompat.app.AppCompatActivity</span>
<a name="16"><span class="ln">6 </span></a><span
class="s1">import android.os.Bundle</span>
<a name="17"><span class="ln">7 </span></a><span
class="s1">import android.os.Handler</span>
<a name="18"><span class="ln">8 </span></a><span
class="s1">import android.view.Window</span>
<a name="19"><span class="ln">9 </span></a><span
class="s1">import android.view.WindowManager</span>
<a name="110"><span class="ln">10 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.R</span>
<a name="111"><span class="ln">11 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.auth.LoginActivity</span>
<a name="112"><span class="ln">12 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.menu.officer.HomeActivity</span>
<a name="113"><span class="ln">13 </span></a>
<a name="114"><span class="ln">14 </span></a><span
class="s0">class </span><span class="s1">SplashActivity :
AppCompatActivity() {</span>
<a name="115"><span class="ln">15 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onCreate (savedInstanceState: Bundle?) {</span>
<a name="116"><span class="ln">16 </span></a> <span
class="s0">super</span><span
class="s1">.onCreate (savedInstanceState) </span>
<a name="117"><span class="ln">17 </span></a> <span
class="s1">window.requestFeature (Window.FEATURE_NO_TITLE)</span>
<a name="118"><span class="ln">18 </span></a> <span
class="s1">window.setFlags (WindowManager.LayoutParams.FLAG_FULLSCREEN</span>
<span class="s0"></span><span class="s0">,</span><span class="s0"></span>
<a name="119"><span class="ln">19 </span></a> <span
class="s1">WindowManager.LayoutParams.FLAG_FULLSCREEN)</span>
<a name="120"><span class="ln">20 </span></a> <span
class="s1">setContentView (R.layout.activity_splash)</span>
<a name="121"><span class="ln">21 </span></a>
<a name="122"><span class="ln">22 </span></a> <span
class="s1">supportActionBar?.hide()</span>
<a name="123"><span class="ln">23 </span></a> <span
class="s1">Handler ().postDelayed ({</span>
<a name="124"><span class="ln">24 </span></a> <span
class="s1">startActivity (Intent (</span><span
class="s0">this</span><span class="s1">@SplashActivity</span><span
class="s0">,</span><span class="s1">LoginActivity::</span><span
class="s0">class</span><span class="s1">.<span class="s1">java)</span></span>
<a name="125"><span class="ln">25 </span></a> <span
class="s1">finish()</span>
<a name="126"><span class="ln">26 </span></a> <span
class="s1">}</span><span class="s0">,</span><span class="s0"></span>
<span class="s2">5000</span><span class="s1">)</span>
<a name="127"><span class="ln">27 </span></a> <span
class="s1">}</span>
<a name="128"><span class="ln">28 </span></a><span
class="s1">}</span></pre>

```

```
</body>
</html>
```

2. Registrasi

a. Desain

b. <html>

```
<head>
<title>activity_register.xml</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
.s0 { color: #e8bf6a;}
.s1 { color: #bababa;}
.s2 { color: #6a8759;}
.s3 { color: #a9b7c6;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
activity_register.xml</font>
</center></td></tr></table>
<pre><a name="l1"><span class="ln">1      </span></a><span
class="s0">&lt;?</span><span class="s1">xml version</span><span
class="s2">=&quot;1.0&quot;; </span><span
class="s1">&lt;encoding</span><span class="s2">=&quot;utf-
8&quot;;</span><span class="s0">?&gt;</span>
<a name="l2"><span class="ln">2      </span></a><span
class="s0">&lt;stta.gabriel.ta_gabriel.view.custom.LinearLayoutTha
tDetectsSoftKeyboard </span><span
class="s1">xmlns:android</span><span
class="s2">=&quot;http://schemas.android.com/apk/res/android&quot;;
</span>
<a name="l3"><span class="ln">3      </span></a> <span
class="s1">xmlns:app</span><span
class="s2">=&quot;http://schemas.android.com/apk/res-
auto&quot;;</span>
<a name="l4"><span class="ln">4      </span></a> <span
class="s1">xmlns:tools</span><span
class="s2">=&quot;http://schemas.android.com/tools&quot;;</span>
<a name="l5"><span class="ln">5      </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/mainLayout&quot;;</span>
<a name="l6"><span class="ln">6      </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="l7"><span class="ln">7      </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="l8"><span class="ln">8      </span></a> <span
class="s1">android:background</span><span
class="s2">=&quot;@color/soft_blue&quot;;</span>
<a name="l9"><span class="ln">9      </span></a> <span
class="s1">android:orientation</span><span
class="s2">=&quot;vertical&quot;;</span>
<a name="l10"><span class="ln">10     </span></a> <span
```



```

class="s1">tools:context</span><span
class="s2">=&quot;.view.auth.LoginActivity&quot;</span><span
class="s0">&gt;</span>
<a name="111"><span class="ln">11 </span></a>
<a name="112"><span class="ln">12 </span></a> <span
class="s0">&lt;androidx.constraintlayout.widget.ConstraintLayout</
span>
<a name="113"><span class="ln">13 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="114"><span class="ln">14 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span><span
class="s0">&gt;</span>
<a name="115"><span class="ln">15 </span></a>
<a name="116"><span class="ln">16 </span></a> <span
class="s0">&lt;androidx.constraintlayout.widget.Guideline</span>
<a name="117"><span class="ln">17 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/batas_atas&quot;</span>
<a name="118"><span class="ln">18 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="119"><span class="ln">19 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="120"><span class="ln">20 </span></a> <span
class="s1">android:orientation</span><span
class="s2">=&quot;horizontal&quot;</span>
<a name="121"><span class="ln">21 </span></a> <span
class="s1">app:layout_constraintGuide_percent</span><span
class="s2">=&quot;0.1&quot;</span><span class="s0">/&gt;</span>
<a name="122"><span class="ln">22 </span></a>
<a name="123"><span class="ln">23 </span></a> <span
class="s0">&lt;androidx.constraintlayout.widget.Guideline</span>
<a name="124"><span class="ln">24 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/batas_bawah&quot;</span>
<a name="125"><span class="ln">25 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="126"><span class="ln">26 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="127"><span class="ln">27 </span></a> <span
class="s1">android:orientation</span><span
class="s2">=&quot;horizontal&quot;</span>
<a name="128"><span class="ln">28 </span></a> <span
class="s1">app:layout_constraintGuide_percent</span><span
class="s2">=&quot;0.95&quot;</span><span class="s0">/&gt;</span>
<a name="129"><span class="ln">29 </span></a>
<a name="130"><span class="ln">30 </span></a> <span
class="s0">&lt;androidx.cardview.widget.CardView</span>
<a name="131"><span class="ln">31 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/btnRegister&quot;</span>
<a name="132"><span class="ln">32 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="133"><span class="ln">33 </span></a> <span
class="s1">android:layout_height</span><span

```

```
class="s2">=&quot;wrap_content&quot;</span>
<a name="134"><span class="ln">34 </span></a> <span
class="s1">android:clickable</span><span
class="s2">=&quot;true&quot;</span>
<a name="135"><span class="ln">35 </span></a> <span
class="s1">android:focusable</span><span
class="s2">=&quot;true&quot;</span>
<a name="136"><span class="ln">36 </span></a> <span
class="s1">app:cardCornerRadius</span><span
class="s2">=&quot;15dp&quot;</span>
<a name="137"><span class="ln">37 </span></a> <span
class="s1">app:cardElevation</span><span
class="s2">=&quot;20dp&quot;</span>
<a name="138"><span class="ln">38 </span></a> <span
class="s1">app:cardUseCompatPadding</span><span
class="s2">=&quot;true&quot;</span>
<a name="139"><span class="ln">39 </span></a> <span
class="s1">app:layout_constraintBottom_toBottomOf</span><span
class="s2">=&quot;@id/batas_bawah&quot;</span>
<a name="140"><span class="ln">40 </span></a> <span
class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="141"><span class="ln">41 </span></a> <span
class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span><span class="s0">&gt;</span>
<a name="142"><span class="ln">42 </span></a>
<a name="143"><span class="ln">43 </span></a> <span
class="s0">&lt;TextView</span>
<a name="144"><span class="ln">44 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/textView&quot;</span>
<a name="145"><span class="ln">45 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="146"><span class="ln">46 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="147"><span class="ln">47 </span></a>
<span class="s1">android:layout_marginVertical</span><span
class="s2">=&quot;10dp&quot;</span>
<a name="148"><span class="ln">48 </span></a>
<span class="s1">android:fontFamily</span><span
class="s2">=&quot;sans-serif&quot;</span>
<a name="149"><span class="ln">49 </span></a>
<span class="s1">android:text</span><span
class="s2">=&quot;Daftar&quot;</span>
<a name="150"><span class="ln">50 </span></a>
<span class="s1">android:textAlignment</span><span
class="s2">=&quot;center&quot;</span>
<a name="151"><span class="ln">51 </span></a>
<span class="s1">android:textColor</span><span
class="s2">=&quot;@color/colorAccent&quot;</span>
<a name="152"><span class="ln">52 </span></a>
<span class="s1">android:textSize</span><span
class="s2">=&quot;24sp&quot;</span>
<a name="153"><span class="ln">53 </span></a>
<span
class="s1">app:layout_constraintBottom_toBottomOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="154"><span class="ln">54 </span></a>
<span class="s1">app:layout_constraintEnd_toEndOf</span><span
```

```
class="s2">=&quot;parent&quot;</span>
<a name="155"><span class="ln">55 </span></a>
<span class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="156"><span class="ln">56 </span></a>
<span class="s1">app:layout_constraintTop_toTopOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="157"><span class="ln">57 </span></a>
<span class="s1">app:layout_constraintVertical_bias</span><span
class="s2">=&quot;1.0&quot;</span></span><span class="s0">/&gt;</span>
<a name="158"><span class="ln">58 </span></a> <span
class="s0">&lt;/span></span><span class="s1">androidx.cardview.widget.CardView&gt;</span>
<a name="159"><span class="ln">59 </span></a>
<a name="160"><span class="ln">60 </span></a> <span
class="s0">&lt;/span></span><span class="s1">androidx.cardview.widget.CardView</span>
<a name="161"><span class="ln">61 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/cardview2&quot;</span>
<a name="162"><span class="ln">62 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="163"><span class="ln">63 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;0dp&quot;</span>
<a name="164"><span class="ln">64 </span></a> <span
class="s1">android:foreground</span><span
class="s2">=&quot;?selectableItemBackground&quot;</span></span>
<a name="165"><span class="ln">65 </span></a> <span
class="s1">app:cardCornerRadius</span><span
class="s2">=&quot;15dp&quot;</span>
<a name="166"><span class="ln">66 </span></a> <span
class="s1">app:cardElevation</span><span
class="s2">=&quot;20dp&quot;</span>
<a name="167"><span class="ln">67 </span></a> <span
class="s1">app:cardUseCompatPadding</span><span
class="s2">=&quot;true&quot;</span>
<a name="168"><span class="ln">68 </span></a> <span
class="s1">app:layout_constraintBottom_toTopOf</span><span
class="s2">=&quot;@+id/btnRegister&quot;</span>
<a name="169"><span class="ln">69 </span></a> <span
class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="170"><span class="ln">70 </span></a> <span
class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="171"><span class="ln">71 </span></a> <span
class="s1">app:layout_constraintTop_toTopOf</span><span
class="s2">=&quot;@id/batas_atas&quot;</span><span
class="s0">&gt;</span>
<a name="172"><span class="ln">72 </span></a>
<a name="173"><span class="ln">73 </span></a> <span
class="s0">&lt;/span></span><span class="s1">androidx.constraintlayout.widget.ConstraintLayout</span>
<a name="174"><span class="ln">74 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="175"><span class="ln">75 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="176"><span class="ln">76 </span></a>
<span class="s1">android:paddingHorizontal</span><span
```

```

class="s2">=&quot;15dp&quot;</span>
<a name="177"><span class="ln">77 </span></a>
<span class="s1">android:paddingTop</span><span
class="s2">=&quot;10dp&quot;</span><span class="s0">&gt;</span>
<a name="178"><span class="ln">78 </span></a>
<a name="179"><span class="ln">79 </span></a>
<span
class="s0">&lt;androidx.constraintlayout.widget.Guideline</span>
<a name="180"><span class="ln">80 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/batas_bawah_card&quot;</span>
<a name="181"><span class="ln">81 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="182"><span class="ln">82 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="183"><span class="ln">83 </span></a>
<span class="s1">android:orientation</span><span
class="s2">=&quot;horizontal&quot;</span>
<a name="184"><span class="ln">84 </span></a>
<span class="s1">app:layout_constraintGuide_percent</span><span
class="s2">=&quot;0.9&quot;</span><span class="s0">&/&gt;</span>
<a name="185"><span class="ln">85 </span></a>
<a name="186"><span class="ln">86 </span></a>
<span class="s0">&lt;TextView</span>
<a name="187"><span class="ln">87 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/textHintLogin&quot;</span>
<a name="188"><span class="ln">88 </span></a>
<span class="s1">style</span><span
class="s2">=&quot;@style/TextAppearance.AppCompat.Medium&quot;</span>
an>
<a name="189"><span class="ln">89 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="190"><span class="ln">90 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="191"><span class="ln">91 </span></a>
<span class="s1">android:text</span><span class="s2">=&quot;Login
Dengan Akun yang telah terdaftar&quot;</span>
<a name="192"><span class="ln">92 </span></a>
<span class="s1">android:textAlignment</span><span
class="s2">=&quot;center&quot;</span>
<a name="193"><span class="ln">93 </span></a>
<span class="s1">android:textStyle</span><span
class="s2">=&quot;bold&quot;</span>
<a name="194"><span class="ln">94 </span></a>
<span class="s1">android:visibility</span><span
class="s2">=&quot;gone&quot;</span>
<a name="195"><span class="ln">95 </span></a>
<span class="s1">app:layout_constraintBottom_toTopOf</span><span
class="s2">=&quot;@id/til_id&quot;</span>
<a name="196"><span class="ln">96 </span></a>
<span class="s1">app:layout_constraintTop_toTopOf</span><span
class="s2">=&quot;parent&quot;</span><span
class="s0">&/&gt;</span>
<a name="197"><span class="ln">97 </span></a>
<a name="198"><span class="ln">98 </span></a>
<span class="s0">&lt;ImageView</span>

```

```
<a name="199"><span class="ln">99 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/imageview&quot;</span>
<a name="1100"><span class="ln">100 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;0dp&quot;</span>
<a name="1101"><span class="ln">101 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;0dp&quot;</span>
<a name="1102"><span class="ln">102 </span></a>
<span class="s1">android:layout_marginVertical</span><span
class="s2">=&quot;20dp&quot;</span>
<a name="1103"><span class="ln">103 </span></a>
<span class="s1">android:src</span><span
class="s2">=&quot;@drawable/logogk&quot;</span>
<a name="1104"><span class="ln">104 </span></a>
<span class="s1">app:layout_constraintBottom_toTopOf</span><span
class="s2">=&quot;@id/til_id&quot;</span>
<a name="1105"><span class="ln">105 </span></a>
<span class="s1">app:layout_constraintDimensionRatio</span><span
class="s2">=&quot;1&quot;</span>
<a name="1106"><span class="ln">106 </span></a>
<span class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="1107"><span class="ln">107 </span></a>
<span class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="1108"><span class="ln">108 </span></a>
<span class="s1">app:layout_constraintTop_toTopOf</span><span
class="s2">=&quot;parent&quot;</span><span
class="s0">/&gt;</span>
<a name="1109"><span class="ln">109 </span></a>
<a name="1110"><span class="ln">110 </span></a>
<span
class="s0">&lt;com.google.android.material.textfield.TextInputLayo
ut</span>
<a name="1111"><span class="ln">111 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/til_id&quot;</span>
<a name="1112"><span class="ln">112 </span></a>
<span class="s1">style</span><span
class="s2">=&quot;@style/Widget.AppCompat.EditText&quot;</span>
<a name="1113"><span class="ln">113 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1114"><span class="ln">114 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="1115"><span class="ln">115 </span></a>
<span class="s1">android:layout_marginBottom</span><span
class="s2">=&quot;20dp&quot;</span>
<a name="1116"><span class="ln">116 </span></a>
<span class="s1">android:background</span><span
class="s2">=&quot;@drawable/rounded_edt&quot;</span>
<a name="1117"><span class="ln">117 </span></a>
<span class="s1">app:layout_constraintBottom_toTopOf</span><span
class="s2">=&quot;@id/til_password&quot;</span>
<a name="1118"><span class="ln">118 </span></a>
<span class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="1119"><span class="ln">119 </span></a>
```

```

<span class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span><span class="s0">&gt;</span>
<a name="1120"><span class="ln">120 </span></a>
<a name="1121"><span class="ln">121 </span></a>
<span
class="s0">&lt;com.google.android.material.textfield.TextInputEdit
Text</span>
<a name="1122"><span class="ln">122 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/inputId&quot;</span></span>
<a name="1123"><span class="ln">123 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1124"><span class="ln">124 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1125"><span class="ln">125 </span></a>
<span class="s1">android:background</span><span
class="s2">=&quot;@color/transparent&quot;</span></span>
<a name="1126"><span class="ln">126 </span></a>
<span class="s1">android:hint</span><span
class="s2">=&quot;Masukkan Nomor Handphone&quot;</span></span>
<a name="1127"><span class="ln">127 </span></a>
<span class="s1">android:imeOptions</span><span
class="s2">=&quot;actionNext&quot;</span></span>
<a name="1128"><span class="ln">128 </span></a>
<span class="s1">android:inputType</span><span
class="s2">=&quot;number&quot;</span></span>
<a name="1129"><span class="ln">129 </span></a>
<span class="s1">android:maxLines</span><span
class="s2">=&quot;1&quot;</span></span>
<a name="1130"><span class="ln">130 </span></a>
<span class="s1">android:nextFocusDown</span><span
class="s2">=&quot;@id/inputPassword&quot;</span></span>
<a name="1131"><span class="ln">131 </span></a>
<span class="s1">android:nextFocusForward</span><span
class="s2">=&quot;@id/inputPassword&quot;</span></span>
<a name="1132"><span class="ln">132 </span></a>
<span class="s1">android:paddingVertical</span><span
class="s2">=&quot;5dp&quot;</span><span class="s0">/&gt;</span>
<a name="1133"><span class="ln">133 </span></a>
<a name="1134"><span class="ln">134 </span></a>
<span
class="s0">&lt;/com.google.android.material.textfield.TextInputLayo
ut&gt;</span>
<a name="1135"><span class="ln">135 </span></a>
<a name="1136"><span class="ln">136 </span></a>
<span
class="s0">&lt;com.google.android.material.textfield.TextInputLayo
ut</span>
<a name="1137"><span class="ln">137 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/til_password&quot;</span></span>
<a name="1138"><span class="ln">138 </span></a>
<span class="s1">android:layout_marginBottom</span><span
class="s2">=&quot;20dp&quot;</span></span>
<a name="1139"><span class="ln">139 </span></a>
<span class="s1">style</span><span
class="s2">=&quot;@style/Widget.AppCompat.EditText&quot;</span></span>
<a name="1140"><span class="ln">140 </span></a>
<span class="s1">android:layout_width</span><span

```

```
class="s2">=&quot;match_parent&quot;</span>
<a name="1141"><span class="ln">141 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="1142"><span class="ln">142 </span></a>
<span class="s1">app:layout_constraintBottom_toTopOf</span><span
class="s2">=&quot;@id/til_otp&quot;</span>
<a name="1143"><span class="ln">143 </span></a>
<span class="s1">android:background</span><span
class="s2">=&quot;@drawable/rounded_edt&quot;</span>
<a name="1144"><span class="ln">144 </span></a>
<span class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="1145"><span class="ln">145 </span></a>
<span class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span><span class="s0">&gt;</span>
<a name="1146"><span class="ln">146 </span></a>
<a name="1147"><span class="ln">147 </span></a>
<span
class="s0">&lt;com.google.android.material.textfield.TextInputEdit
Text</span>
<a name="1148"><span class="ln">148 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/inputPassword&quot;</span>
<a name="1149"><span class="ln">149 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1150"><span class="ln">150 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1151"><span class="ln">151 </span></a>
<span class="s1">android:background</span><span
class="s2">=&quot;@color/transparent&quot;</span>
<a name="1152"><span class="ln">152 </span></a>
<span class="s1">android:hint</span><span
class="s2">=&quot;Masukkan Password&quot;</span>
<a name="1153"><span class="ln">153 </span></a>
<span class="s1">android:imeOptions</span><span
class="s2">=&quot;actionDone&quot;</span>
<a name="1154"><span class="ln">154 </span></a>
<span class="s1">android:inputType</span><span
class="s2">=&quot;textPassword&quot;</span>
<a name="1155"><span class="ln">155 </span></a>
<span class="s1">android:maxLines</span><span
class="s2">=&quot;1&quot;</span>
<a name="1156"><span class="ln">156 </span></a>
<span class="s1">android:paddingVertical</span><span
class="s2">=&quot;5dp&quot;</span><span class="s0">&/&gt;</span>
<a name="1157"><span class="ln">157 </span></a>
<a name="1158"><span class="ln">158 </span></a>
<span
class="s0">&lt;/com.google.android.material.textfield.TextInputLayo
ut&gt;</span>
<a name="1159"><span class="ln">159 </span></a>
<a name="1160"><span class="ln">160 </span></a>
<span
class="s0">&lt;com.google.android.material.textfield.TextInputLayo
ut</span>
<a name="1161"><span class="ln">161 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/til_otp&quot;</span>
```

```
<a name="1162"><span class="ln">162 </span></a>
<span class="s1">style</span><span
class="s2">=&quot;@style/Widget.AppCompat.EditText&quot;</span>
<a name="1163"><span class="ln">163 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1164"><span class="ln">164 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="1165"><span class="ln">165 </span></a>
<span class="s1">android:background</span><span
class="s2">=&quot;@drawable/rounded_edt&quot;</span>
<a name="1166"><span class="ln">166 </span></a>
<span class="s1">android:visibility</span><span
class="s2">=&quot;invisible&quot;</span>
<a name="1167"><span class="ln">167 </span></a>
<span
class="s1">app:layout_constraintBottom_toBottomOf</span><span
class="s2">=&quot;@id/batas_bawah_card&quot;</span>
<a name="1168"><span class="ln">168 </span></a>
<span class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="1169"><span class="ln">169 </span></a>
<span class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span><span class="s0">&gt;</span>
<a name="1170"><span class="ln">170 </span></a>
<a name="1171"><span class="ln">171 </span></a>
<span
class="s0">&lt;/com.google.android.material.textfield.TextInputEdit
Text</span>
<a name="1172"><span class="ln">172 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/inputOtp&quot;</span>
<a name="1173"><span class="ln">173 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1174"><span class="ln">174 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1175"><span class="ln">175 </span></a>
<span class="s1">android:background</span><span
class="s2">=&quot;@color/transparent&quot;</span>
<a name="1176"><span class="ln">176 </span></a>
<span class="s1">android:hint</span><span
class="s2">=&quot;Masukkan OTP&quot;</span>
<a name="1177"><span class="ln">177 </span></a>
<span class="s1">android:imeOptions</span><span
class="s2">=&quot;actionDone&quot;</span>
<a name="1178"><span class="ln">178 </span></a>
<span class="s1">android:inputType</span><span
class="s2">=&quot;textPassword&quot;</span>
<a name="1179"><span class="ln">179 </span></a>
<span class="s1">android:maxLines</span><span
class="s2">=&quot;1&quot;</span>
<a name="1180"><span class="ln">180 </span></a>
<span class="s1">android:paddingVertical</span><span
class="s2">=&quot;5dp&quot;</span><span class="s0">/&gt;</span>
<a name="1181"><span class="ln">181 </span></a>
<a name="1182"><span class="ln">182 </span></a>
<span
class="s0">&lt;/com.google.android.material.textfield.TextInputLay
```



```

out<span></span>
<a name="1183"><span class="ln">183 </span></a>
<a name="1184"><span class="ln">184 </span></a> <span
class="s0">&lt;/androidx.constraintlayout.widget.ConstraintLayout&
gt;</span>
<a name="1185"><span class="ln">185 </span></a>
<a name="1186"><span class="ln">186 </span></a> <span
class="s0">&lt;/androidx.cardview.widget.CardView&gt;</span>
<a name="1187"><span class="ln">187 </span></a>
<a name="1188"><span class="ln">188 </span></a> <span
class="s0">&lt;/FrameLayout</span>
<a name="1189"><span class="ln">189 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/progressLay&quot;</span>
<a name="1190"><span class="ln">190 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1191"><span class="ln">191 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1192"><span class="ln">192 </span></a> <span
class="s1">android:background</span><span
class="s2">=&quot;#94000000&quot;</span>
<a name="1193"><span class="ln">193 </span></a> <span
class="s1">android:clickable</span><span
class="s2">=&quot;true&quot;</span>
<a name="1194"><span class="ln">194 </span></a> <span
class="s1">android:focusable</span><span
class="s2">=&quot;true&quot;</span>
<a name="1195"><span class="ln">195 </span></a> <span
class="s1">android:translationZ</span><span
class="s2">=&quot;30dp&quot;</span>
<a name="1196"><span class="ln">196 </span></a> <span
class="s1">android:visibility</span><span
class="s2">=&quot;gone&quot;</span><span class="s0">&gt;</span>
<a name="1197"><span class="ln">197 </span></a>
<a name="1198"><span class="ln">198 </span></a> <span
class="s0">&lt;/ProgressBar</span>
<a name="1199"><span class="ln">199 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="1200"><span class="ln">200 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="1201"><span class="ln">201 </span></a>
<span class="s1">android:layout_gravity</span><span
class="s2">=&quot;center&quot;</span><span
class="s0">/&gt;</span>
<a name="1202"><span class="ln">202 </span></a> <span
class="s0">&lt;/FrameLayout&gt;</span>
<a name="1203"><span class="ln">203 </span></a>
<a name="1204"><span class="ln">204 </span></a> <span
class="s0">&lt;/androidx.constraintlayout.widget.ConstraintLayout&
gt;</span>
<a name="1205"><span class="ln">205 </span></a>
<a name="1206"><span class="ln">206 </span></a><span
class="s0">&lt;/stta.gabriel.ta_gabriel.view.custom.LinearLayoutTh
atDetectsSoftKeyboard&gt;</span></pre>
</body>
</html>

```

c. Code

```
<html>
<head>
<title>LoginActivity.kt</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
.s0 { color: #cc7832;}
.s1 { color: #a9b7c6;}
.s2 { color: #6897bb;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
LoginActivity.kt</font>
</center></td></tr></table>
<pre><a name="l1"><span class="ln">1      </span></a><span
class="s0">package </span><span
class="s1">stta.gabriel.ta_gabriel.view.auth</span>
<a name="l2"><span class="ln">2      </span></a>
<a name="l3"><span class="ln">3      </span></a><span
class="s1">import android.Manifest</span>
<a name="l4"><span class="ln">4      </span></a><span
class="s1">import android.content.DialogInterface</span>
<a name="l5"><span class="ln">5      </span></a><span
class="s1">import android.content.pm.PackageManager</span>
<a name="l6"><span class="ln">6      </span></a><span
class="s1">import android.os.Build</span>
<a name="l7"><span class="ln">7      </span></a><span
class="s1">import android.os.Bundle</span>
<a name="l8"><span class="ln">8      </span></a><span
class="s1">import android.view.Window</span>
<a name="l9"><span class="ln">9      </span></a><span
class="s1">import android.widget.Toast</span>
<a name="l10"><span class="ln">10     </span></a><span
class="s1">import androidx.appcompat.app.AlertDialog</span>
<a name="l11"><span class="ln">11     </span></a><span
class="s1">import androidx.appcompat.app.AppCompatActivity</span>
<a name="l12"><span class="ln">12     </span></a><span
class="s1">import com.google.firebase.database.*</span>
<a name="l13"><span class="ln">13     </span></a><span
class="s1">import com.google.gson.Gson</span>
<a name="l14"><span class="ln">14     </span></a><span
class="s1">import
kotlinx.android.synthetic.main.activity_main.*</span>
<a name="l15"><span class="ln">15     </span></a><span
class="s1">import stta.gabriel.ta_gabriel.R</span>
<a name="l16"><span class="ln">16     </span></a><span
class="s1">import stta.gabriel.ta_gabriel.model.Akun</span>
<a name="l17"><span class="ln">17     </span></a><span
class="s1">import stta.gabriel.ta_gabriel.util.*</span>
<a name="l18"><span class="ln">18     </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.menu.officer.HomeActivity</span>
<a name="l19"><span class="ln">19     </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.menu.rt.HomeRTActivity</span>
```

```

<a name="120"><span class="ln">20    </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.menu.rt.tambahlaporan.TambahLaporanFr
agment</span>
<a name="121"><span class="ln">21    </span></a>
<a name="122"><span class="ln">22    </span></a>
<a name="123"><span class="ln">23    </span></a><span
class="s0">class </span><span class="s1">LoginActivity :
AppCompatActivity() {</span>
<a name="124"><span class="ln">24    </span></a>    <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">akun: DatabaseReference</span>
<a name="125"><span class="ln">25    </span></a>    <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">preferences: SharedPreferences</span>
<a name="126"><span class="ln">26    </span></a>
<a name="127"><span class="ln">27    </span></a>    <span
class="s1">private </span><span class="s0">var </span><span><span
class="s1">permissionsToRequest =
arrayListOf<String>()</span>
<a name="128"><span class="ln">28    </span></a>    <span
class="s1">private </span><span class="s0">var </span><span><span
class="s1">permissionsRejected =
arrayListOf<String>()</span>
<a name="129"><span class="ln">29    </span></a>    <span
class="s1">private </span><span class="s0">var </span><span><span
class="s1">permissions = arrayOf<String>()</span>
<a name="130"><span class="ln">30    </span></a>
<a name="131"><span class="ln">31    </span></a>    <span
class="s1">override </span><span class="s0">fun </span><span><span
class="s1">onCreate(savedInstanceState: Bundle?) {</span>
<a name="132"><span class="ln">32    </span></a>    <span
class="s0">super</span><span><span
class="s1">.onCreate(savedInstanceState) </span>
<a name="133"><span class="ln">33    </span></a>    <span
class="s1">requestWindowFeature(Window.FEATURE_NO_TITLE) </span>
<a name="134"><span class="ln">34    </span></a>    <span
class="s1">requestWindowFeature(Window.FEATURE_ACTION_BAR) </span>
<a name="135"><span class="ln">35    </span></a>    <span
class="s1">setContentView(R.layout.activity_main)</span>
<a name="136"><span class="ln">36    </span></a>
<a name="137"><span class="ln">37    </span></a>
<a name="138"><span class="ln">38    </span></a>
<a name="139"><span class="ln">39    </span></a>    <span
class="s1">preferences = SharedPreferences(</span><span><span
class="s0">this</span><span><span class="s1">>) </span>
<a name="140"><span class="ln">40    </span></a>    <span
class="s0">when </span><span><span class="s1">{</span>
<a name="141"><span class="ln">41    </span></a>    <span
class="s1">preferences.getInteger(IS_LOGGED_IN) == ID_OFFICER -
&gt; {</span>
<a name="142"><span class="ln">42    </span></a>
<span class="s1">HomeActivity.start(</span><span><span
class="s0">this</span><span><span class="s1">>) </span>
<a name="143"><span class="ln">43    </span></a>    <span
class="s1">}</span>
<a name="144"><span class="ln">44    </span></a>    <span
class="s1">preferences.getInteger(IS_LOGGED_IN) == ID_RT -&gt;
{</span>
<a name="145"><span class="ln">45    </span></a>
<span class="s1">HomeRTActivity.start(</span><span><span

```

```

class="s0">this</span><span class="s1"></span>
<a name="146"><span class="ln">46 </span></a> <span
class="s1"></span>
<a name="147"><span class="ln">47 </span></a> <span
class="s0">else </span><span class="s1">-&gt; {</span>
<a name="148"><span class="ln">48 </span></a>
<span class="s1">setLoading(</span><span
class="s0">>false</span><span class="s1"></span>
<a name="149"><span class="ln">49 </span></a> <span
class="s1"></span>
<a name="150"><span class="ln">50 </span></a> <span
class="s1"></span>
<a name="151"><span class="ln">51 </span></a>
<a name="152"><span class="ln">52 </span></a> <span
class="s1">akun =
FirebaseDatabase.getInstance().reference.child(TABLE_USER)</span>
<a name="153"><span class="ln">53 </span></a>
<a name="154"><span class="ln">54 </span></a> <span
class="s1">btnlogin.setOnClickListener {</span>
<a name="155"><span class="ln">55 </span></a> <span
class="s1">setLoading(</span><span class="s0">>true</span><span
class="s1"></span>
<a name="156"><span class="ln">56 </span></a> <span
class="s0">val </span><span class="s1">id =
inputId.text.toString(</span>
<a name="157"><span class="ln">57 </span></a> <span
class="s0">val </span><span class="s1">password =
inputPassword.text.toString(</span>
<a name="158"><span class="ln">58 </span></a> <span
class="s0">when </span><span class="s1">{</span>
<a name="159"><span class="ln">59 </span></a>
<span class="s1">id.trim().isBlank() -&gt; {</span>
<a name="160"><span class="ln">60 </span></a>
<span class="s1">inputId.error =
getString(R.string.id_warn_error_text)</span>
<a name="161"><span class="ln">61 </span></a>
<span class="s1">setLoading(</span><span
class="s0">>false</span><span class="s1"></span>
<a name="162"><span class="ln">62 </span></a>
<span class="s1"></span>
<a name="163"><span class="ln">63 </span></a>
<span class="s1">password.trim().isBlank() -&gt; {</span>
<a name="164"><span class="ln">64 </span></a>
<span class="s1">inputPassword.error =</span>
<a name="165"><span class="ln">65 </span></a>
<span
class="s1">getString(R.string.password_warn_error_text)</span>
<a name="166"><span class="ln">66 </span></a>
<span class="s1">setLoading(</span><span
class="s0">>false</span><span class="s1"></span>
<a name="167"><span class="ln">67 </span></a>
<span class="s1"></span>
<a name="168"><span class="ln">68 </span></a>
<span class="s0">else </span><span class="s1">-&gt; {</span>
<a name="169"><span class="ln">69 </span></a>
<span
class="s1">akun.addListenerForSingleValueEvent(accountValueEventLi
stener())</span>
<a name="170"><span class="ln">70 </span></a>
<span class="s1"></span>
<a name="171"><span class="ln">71 </span></a> <span

```

```

class="s1">}</span>
<a name="172"><span class="ln">72 </span></a> <span
class="s1">}</span>
<a name="173"><span class="ln">73 </span></a>
<a name="174"><span class="ln">74 </span></a> <span
class="s1">btnRegister.setOnClickListener {
RegisterActivity.start(</span><span class="s0">this</span><span
class="s1">)</span> }</span>
<a name="175"><span class="ln">75 </span></a> <span
class="s1">initPermissions()</span>
<a name="176"><span class="ln">76 </span></a> <span
class="s1">}</span>
<a name="177"><span class="ln">77 </span></a>
<a name="178"><span class="ln">78 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">initPermissions() {</span>
<a name="179"><span class="ln">79 </span></a> <span
class="s1">permissions.add(Manifest.permission.ACCESS_FINE_LOCATIO
N)</span>
<a name="180"><span class="ln">80 </span></a> <span
class="s1">permissions.add(Manifest.permission.ACCESS_COARSE_LOCAT
ION)</span>
<a name="181"><span class="ln">81 </span></a> <span
class="s1">permissions.add(Manifest.permission.CAMERA)</span>
<a name="182"><span class="ln">82 </span></a>
<a name="183"><span class="ln">83 </span></a> <span
class="s1">permissionsToRequest =
findUnAskedPermissions(permissions)</span>
<a name="184"><span class="ln">84 </span></a> <span
class="s0">if </span><span class="s1">(Build.VERSION.SDK_INT &gt;=
Build.VERSION_CODES.M) {</span>
<a name="185"><span class="ln">85 </span></a> <span
class="s0">if </span><span class="s1">(permissionsToRequest.size
&gt; </span><span class="s2">0</span><span class="s1">)</span> {</span>
<a name="186"><span class="ln">86 </span></a>
<span class="s1">requestPermissions(</span>
<a name="187"><span class="ln">87 </span></a>
<span class="s1">permissionsToRequest.toArray()</span><span
class="s0">,</span>
<a name="188"><span class="ln">88 </span></a>
<span
class="s1">TambahLaporanFragment.ALL_PERMISSIONS_RESULT</span>
<a name="189"><span class="ln">89 </span></a>
<span class="s1">)</span>
<a name="190"><span class="ln">90 </span></a> <span
class="s1">}</span>
<a name="191"><span class="ln">91 </span></a> <span
class="s1">}</span>
<a name="192"><span class="ln">92 </span></a> <span
class="s1">}</span>
<a name="193"><span class="ln">93 </span></a>
<a name="194"><span class="ln">94 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">findUnAskedPermissions(permissions:
ArrayList<String>): ArrayList<String> {</span>
<a name="195"><span class="ln">95 </span></a> <span
class="s0">val </span><span class="s1">result =
arrayListOf<String>()</span>
<a name="196"><span class="ln">96 </span></a> <span
class="s1">permissions.forEachIndexed { _</span><span class="s0">,</span>
</span><span class="s1">s -&gt;</span>

```

```
<a name="197"><span class="ln">97 </span></a> <span
class="s0">if </span><span class="s1">(!hasPermission(s)) {</span>
<a name="198"><span class="ln">98 </span></a>
<span class="s1">result.add(s)</span>
<a name="199"><span class="ln">99 </span></a> <span
class="s1">}</span>
<a name="1100"><span class="ln">100 </span></a> <span
class="s1">}</span>
<a name="1101"><span class="ln">101 </span></a> <span
class="s0">return </span><span class="s1">result</span>
<a name="1102"><span class="ln">102 </span></a> <span
class="s1">}</span>
<a name="1103"><span class="ln">103 </span></a>
<a name="1104"><span class="ln">104 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">hasPermission(permission: String): Boolean {</span>
<a name="1105"><span class="ln">105 </span></a> <span
class="s0">if </span><span class="s1">(canMakeSores()) {</span>
<a name="1106"><span class="ln">106 </span></a> <span
class="s0">if </span><span class="s1">(Build.VERSION.SDK_INT &gt;=
Build.VERSION_CODES.M) {</span>
<a name="1107"><span class="ln">107 </span></a>
<span class="s0">return </span><span
class="s1">(checkSelfPermission(permission) ==
PackageManager.PERMISSION_GRANTED)</span>
<a name="1108"><span class="ln">108 </span></a> <span
class="s1">}</span>
<a name="1109"><span class="ln">109 </span></a> <span
class="s1">}</span>
<a name="1110"><span class="ln">110 </span></a> <span
class="s0">return true</span>
<a name="1111"><span class="ln">111 </span></a> <span
class="s1">}</span>
<a name="1112"><span class="ln">112 </span></a>
<a name="1113"><span class="ln">113 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">canMakeSores(): Boolean {</span>
<a name="1114"><span class="ln">114 </span></a> <span
class="s0">return </span><span class="s1">(Build.VERSION.SDK_INT
&gt; Build.VERSION_CODES.LOLLIPOP_MR1)</span>
<a name="1115"><span class="ln">115 </span></a> <span
class="s1">}</span>
<a name="1116"><span class="ln">116 </span></a>
<a name="1117"><span class="ln">117 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onRequestPermissionsResult(</span>
<a name="1118"><span class="ln">118 </span></a> <span
class="s1">requestCode: Int</span><span class="s0">,</span> <span>
<a name="1119"><span class="ln">119 </span></a> <span
class="s1">permissions: Array<out String></span><span
class="s0">,</span> <span>
<a name="1120"><span class="ln">120 </span></a> <span
class="s1">grantResults: IntArray</span>
<a name="1121"><span class="ln">121 </span></a> <span
class="s1">)</span> {</span>
<a name="1122"><span class="ln">122 </span></a> <span
class="s0">super</span><span
class="s1">.onRequestPermissionsResult(requestCode</span><span
class="s0">,</span> <span><span class="s1">permissions</span><span
class="s0">,</span> <span><span class="s1">grantResults</span></span>
<a name="1123"><span class="ln">123 </span></a> <span
```

```

class="s0">when </span><span class="s1">(requestCode) {</span>
<a name="1124"><span class="ln">124 </span></a> <span
class="s1">TambahLaporanFragment.ALL_PERMISSIONS_RESULT -&gt;
{</span>
<a name="1125"><span class="ln">125 </span></a>
<span class="s1">permissions.forEachIndexed { _</span><span
class="s0">, </span><span class="s1">s -&gt;</span>
<a name="1126"><span class="ln">126 </span></a>
<span class="s0">if </span><span class="s1">(!hasPermission(s)
{</span>
<a name="1127"><span class="ln">127 </span></a>
<span class="s1">permissionsRejected.add(s)</span>
<a name="1128"><span class="ln">128 </span></a>
<span class="s1">}</span>
<a name="1129"><span class="ln">129 </span></a>
<span class="s1">}</span>
<a name="1130"><span class="ln">130 </span></a>
<a name="1131"><span class="ln">131 </span></a>
<span class="s0">if </span><span
class="s1">(permissionsRejected.size &gt; </span><span
class="s2">0</span><span class="s1">)</span> {</span>
<a name="1132"><span class="ln">132 </span></a>
<span class="s0">if </span><span class="s1">(Build.VERSION.SDK_INT
&gt;= Build.VERSION_CODES.M) {</span>
<a name="1133"><span class="ln">133 </span></a>
<span class="s0">if </span><span
class="s1">(shouldShowRequestPermissionRationale(permissionsReject
ed[</span><span class="s2">0</span><span class="s1">])) {</span>
<a name="1134"><span class="ln">134 </span></a>
<span class="s1">showMessageOKCancel (</span>
<a name="1135"><span class="ln">135 </span></a>
<span
class="s1">getString(R.string.grant_access_permission_hint_text)</span></span>
<span class="s0">,</span></span>
<a name="1136"><span class="ln">136 </span></a>
<span class="s1">DialogInterface.OnClickListener { _</span><span
class="s0">,</span><span class="s1">-&gt;</span>
<a name="1137"><span class="ln">137 </span></a>
<span class="s0">if </span><span class="s1">(Build.VERSION.SDK_INT
&gt;= Build.VERSION_CODES.M) {</span>
<a name="1138"><span class="ln">138 </span></a>
<span class="s1">requestPermissions(</span>
<a name="1139"><span class="ln">139 </span></a>
<span class="s1">permissionsRejected.toArray()</span><span
class="s0">,</span></span>
<a name="1140"><span class="ln">140 </span></a>
<span
class="s1">TambahLaporanFragment.ALL_PERMISSIONS_RESULT</span>
<a name="1141"><span class="ln">141 </span></a>
<span class="s1">}</span>
<a name="1142"><span class="ln">142 </span></a>
<span class="s1">}</span>
<a name="1143"><span class="ln">143 </span></a>
<span class="s1">})</span>
<a name="1144"><span class="ln">144 </span></a>
<span class="s0">return</span>
<a name="1145"><span class="ln">145 </span></a>
<span class="s1">}</span>
<a name="1146"><span class="ln">146 </span></a>
<span class="s1">}</span>
<a name="1147"><span class="ln">147 </span></a>

```

```

<span class="s1">} </span><span class="s0">else </span><span
class="s1">findUnAskedPermissions(permissionsRejected) </span>
<a name="1148"><span class="ln">148 </span></a> <span
class="s1">}</span>
<a name="1149"><span class="ln">149 </span></a> <span
class="s1">}</span>
<a name="1150"><span class="ln">150 </span></a>
<a name="1151"><span class="ln">151 </span></a> <span
class="s1">}</span>
<a name="1152"><span class="ln">152 </span></a>
<a name="1153"><span class="ln">153 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">showMessageOKCancel(message: String</span><span
class="s0">, </span><span class="s1">okListener:
DialogInterface.OnClickListener) {</span>
<a name="1154"><span class="ln">154 </span></a> <span
class="s1">AlertDialog.Builder(</span><span
class="s0">this</span><span class="s1">)</span>
<a name="1155"><span class="ln">155 </span></a> <span
class="s1">.setMessage(message)</span>
<a name="1156"><span class="ln">156 </span></a> <span
class="s1">.setPositiveButton(getString(R.string.ok_text)</span><s
pan class="s0">, </span><span class="s1">okListener)</span>
<a name="1157"><span class="ln">157 </span></a> <span
class="s1">.setNegativeButton(getString(R.string.cancel_text)</spa
n><span class="s0">, null</span><span
class="s1">).create().show()</span>
<a name="1158"><span class="ln">158 </span></a> <span
class="s1">}</span>
<a name="1159"><span class="ln">159 </span></a>
<a name="1160"><span class="ln">160 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">accountValueEventListener(): ValueEventListener
{</span>
<a name="1161"><span class="ln">161 </span></a> <span
class="s0">return object </span><span class="s1">:
ValueEventListener {</span>
<a name="1162"><span class="ln">162 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onCancelled(p0: DatabaseError) {</span>
<a name="1163"><span class="ln">163 </span></a>
<span class="s1">setLoading(</span><span
class="s0">>false</span><span class="s1">)</span>
<a name="1164"><span class="ln">164 </span></a> <span
class="s1">}</span>
<a name="1165"><span class="ln">165 </span></a>
<a name="1166"><span class="ln">166 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onDataChange(p0: DataSnapshot) {</span>
<a name="1167"><span class="ln">167 </span></a>
<span class="s0">if </span><span class="s1">(p0.exists()) {</span>
<a name="1168"><span class="ln">168 </span></a>
<span class="s0">val </span><span class="s1">user =
p0.child(inputId.text.toString()).getPhoneNumberOnly()</span>
<a name="1169"><span class="ln">169 </span></a>
<span class="s0">if </span><span class="s1">(user.exists())
{</span>
<a name="1170"><span class="ln">170 </span></a>
<span class="s0">val </span><span class="s1">account =
user.getValue<Akun>(Akun::</span><span
class="s0">class</span><span class="s1">.java)</span>

```



```

<a name="1171"><span class="ln">171 </span></a>
<span class="s0">if </span><span class="s1">(account !=
</span><span class="s0">>null</span><span class="s1">)</span>
<a name="1172"><span class="ln">172 </span></a>
<span class="s0">if </span><span class="s1">(account.password.toString() ==
inputPassword.text.toString()) {</span>
<a name="1173"><span class="ln">173 </span></a>
<a name="1174"><span class="ln">174 </span></a>
<span class="s0">when </span><span class="s1">(account.access)
{</span>
<a name="1175"><span class="ln">175 </span></a>
<span class="s1">ID_OFFICER -&gt; {</span>
<a name="1176"><span class="ln">176 </span></a>
<span class="s1">HomeActivity.start(</span><span class="s0">this</span><span class="s1">@LoginActivity)</span>
<a name="1177"><span class="ln">177 </span></a>
<span class="s1">preferences.saveInt(IS_LOGGED_IN</span><span class="s0">,</span>
<span class="s1">ID_OFFICER)</span>
<a name="1178"><span class="ln">178 </span></a>
<span class="s1">preferences.saveString(</span>
<a name="1179"><span class="ln">179 </span></a>
<span class="s1">USER_VALUE</span><span class="s0">,</span>
<a name="1180"><span class="ln">180 </span></a>
<span class="s1">Gson().toJson(account)</span>
<a name="1181"><span class="ln">181 </span></a>
<span class="s1">)</span>
<a name="1182"><span class="ln">182 </span></a>
<span class="s1">}</span>
<a name="1183"><span class="ln">183 </span></a>
<span class="s1">ID_RT -&gt; {</span>
<a name="1184"><span class="ln">184 </span></a>
<span class="s1">HomeRTActivity.start(</span><span class="s0">this</span><span class="s1">@LoginActivity)</span>
<a name="1185"><span class="ln">185 </span></a>
<span class="s1">preferences.saveInt(IS_LOGGED_IN</span><span class="s0">,</span>
<span class="s1">ID_RT)</span>
<a name="1186"><span class="ln">186 </span></a>
<span class="s1">preferences.saveString(</span>
<a name="1187"><span class="ln">187 </span></a>
<span class="s1">USER_VALUE</span><span class="s0">,</span>
<a name="1188"><span class="ln">188 </span></a>
<span class="s1">Gson().toJson(account)</span>
<a name="1189"><span class="ln">189 </span></a>
<span class="s1">)</span>
<a name="1190"><span class="ln">190 </span></a>
<span class="s1">}</span>
<a name="1191"><span class="ln">191 </span></a>
<span class="s0">else </span><span class="s1">-&gt; {</span>
<a name="1192"><span class="ln">192 </span></a>
<span class="s1">toastMe(getString(R.string.no_access_account_text))</span>
<a name="1193"><span class="ln">193 </span></a>
<span class="s1">}</span>
<a name="1194"><span class="ln">194 </span></a>
<span class="s1">}</span>
<a name="1195"><span class="ln">195 </span></a>
<span class="s1">}</span><span class="s0">else </span><span class="s1">{</span>
<a name="1196"><span class="ln">196 </span></a>

```

```

<span
class="s1">toastMe(getString(R.string.wrong_password_text))</span>
<a name="1197"><span class="ln">197 </span></a>
<span class="s1"></span>
<a name="1198"><span class="ln">198 </span></a>
<span class="s0">else </span><span
class="s1">toastMe(getString(R.string.account_not_found_text))</sp
an>
<a name="1199"><span class="ln">199 </span></a>
<span class="s1"></span><span class="s0">else </span><span
class="s1">toastMe(getString(R.string.account_not_found_text))</sp
an>
<a name="1200"><span class="ln">200 </span></a>
<span class="s1"></span>
<a name="1201"><span class="ln">201 </span></a>
<span class="s1">setLoading(</span><span
class="s0">false</span><span class="s1">)</span>
<a name="1202"><span class="ln">202 </span></a> <span
class="s1"></span>
<a name="1203"><span class="ln">203 </span></a> <span
class="s1"></span>
<a name="1204"><span class="ln">204 </span></a> <span
class="s1"></span>
<a name="1205"><span class="ln">205 </span></a>
<a name="1206"><span class="ln">206 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">setLoading(isLoading: Boolean) {</span>
<a name="1207"><span class="ln">207 </span></a> <span
class="s0">if </span><span class="s1">(isLoading) {</span>
<a name="1208"><span class="ln">208 </span></a> <span
class="s1">progressLay.setVisible()</span>
<a name="1209"><span class="ln">209 </span></a> <span
class="s1">btnlogin.setGone()</span>
<a name="1210"><span class="ln">210 </span></a> <span
class="s1"></span><span class="s0">else </span><span
class="s1">{</span>
<a name="1211"><span class="ln">211 </span></a> <span
class="s1">progressLay.setGone()</span>
<a name="1212"><span class="ln">212 </span></a> <span
class="s1">btnlogin.setVisible()</span>
<a name="1213"><span class="ln">213 </span></a> <span
class="s1"></span>
<a name="1214"><span class="ln">214 </span></a> <span
class="s1"></span>
<a name="1215"><span class="ln">215 </span></a>
<a name="1216"><span class="ln">216 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">toastMe(s: String) {</span>
<a name="1217"><span class="ln">217 </span></a> <span
class="s1">Toast.makeText(</span><span class="s0">this</span><span
class="s1">@LoginActivity</span><span class="s0">, </span><span
class="s1">s</span><span class="s0">, </span><span
class="s1">Toast.LENGTH_SHORT).show()</span>
<a name="1218"><span class="ln">218 </span></a> <span
class="s1"></span>
<a name="1219"><span class="ln">219 </span></a><span
class="s1"></span>
<a name="1220"><span class="ln">220 </span></a></pre>
</body>
</html>

```

c. Code register

```

<html>
<head>
<title>RegisterActivity.kt</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
.s0 { color: #cc7832;}
.s1 { color: #a9b7c6;}
.s2 { color: #6a8759;}
.s3 { color: #6897bb;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
RegisterActivity.kt</font>
</center></td></tr></table>
<pre><a name="l1"><span class="ln">1      </span></a><span
class="s0">package </span><span
class="s1">stta.gabriel.ta_gabriel.view.auth</span>
<a name="l2"><span class="ln">2      </span></a>
<a name="l3"><span class="ln">3      </span></a><span
class="s1">import android.content.Intent</span>
<a name="l4"><span class="ln">4      </span></a><span
class="s1">import android.os.Bundle</span>
<a name="l5"><span class="ln">5      </span></a><span
class="s1">import android.util.Log</span>
<a name="l6"><span class="ln">6      </span></a><span
class="s1">import androidx.appcompat.app.AppCompatActivity</span>
<a name="l7"><span class="ln">7      </span></a><span
class="s1">import androidx.core.view.isVisible</span>
<a name="l8"><span class="ln">8      </span></a><span
class="s1">import com.google.firebase.FirebaseException</span>
<a name="l9"><span class="ln">9      </span></a><span
class="s1">import com.google.firebase.auth.FirebaseAuth</span>
<a name="l10"><span class="ln">10     </span></a><span
class="s1">import
com.google.firebase.auth.PhoneAuthCredential</span>
<a name="l11"><span class="ln">11     </span></a><span
class="s1">import
com.google.firebase.auth.PhoneAuthProvider</span>
<a name="l12"><span class="ln">12     </span></a><span
class="s1">import
com.google.firebase.database.FirebaseDatabase</span>
<a name="l13"><span class="ln">13     </span></a><span
class="s1">import com.google.gson.Gson</span>
<a name="l14"><span class="ln">14     </span></a><span
class="s1">import
kotlinx.android.synthetic.main.activity_register.*</span>
<a name="l15"><span class="ln">15     </span></a><span
class="s1">import org.jetbrains.anko.toast</span>
<a name="l16"><span class="ln">16     </span></a><span
class="s1">import stta.gabriel.ta_gabriel.R</span>
<a name="l17"><span class="ln">17     </span></a><span
class="s1">import stta.gabriel.ta_gabriel.model.Akun</span>
<a name="l18"><span class="ln">18     </span></a><span
class="s1">import stta.gabriel.ta_gabriel.util.*</span>
<a name="l19"><span class="ln">19     </span></a><span

```

```

class="s1">import
stta.gabriel.ta_gabriel.view.custom.LinearLayoutThatDetectsSoftKey
board</span>
<a name="120"><span class="ln">20 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.menu.rt.HomeRTActivity</span>
<a name="121"><span class="ln">21 </span></a><span
class="s1">import java.util.concurrent.TimeUnit</span>
<a name="122"><span class="ln">22 </span></a>
<a name="123"><span class="ln">23 </span></a><span
class="s0">class </span><span class="s1">RegisterActivity :
AppCompatActivity()</span><span class="s0">, </span><span
class="s1">LinearLayoutThatDetectsSoftKeyboard.Listener {</span>
<a name="124"><span class="ln">24 </span></a>
<a name="125"><span class="ln">25 </span></a> <span
class="s1">companion </span><span class="s0">object </span><span
class="s1">{</span>
<a name="126"><span class="ln">26 </span></a> <span
class="s0">fun </span><span class="s1">start(activity:
AppCompatActivity) {</span>
<a name="127"><span class="ln">27 </span></a> <span
class="s1">activity.startActivity(Intent(activity</span><span
class="s0">,</span><span
class="s1">RegisterActivity:</span><span
class="s0">class</span><span class="s1">.java)</span>
<a name="128"><span class="ln">28 </span></a> <span
class="s1">}</span>
<a name="129"><span class="ln">29 </span></a> <span
class="s1">}</span>
<a name="130"><span class="ln">30 </span></a>
<a name="131"><span class="ln">31 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">callback:
PhoneAuthProvider.OnVerificationStateChangedCallbacks</span>
<a name="132"><span class="ln">32 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">resendingToken:
PhoneAuthProvider.ForceResendingToken</span>
<a name="133"><span class="ln">33 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">verificationId: String</span>
<a name="134"><span class="ln">34 </span></a>
<a name="135"><span class="ln">35 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span><span
class="s1">onCreate(savedInstanceState: Bundle?) {</span>
<a name="136"><span class="ln">36 </span></a><span
class="s0">super</span><span
class="s1">.onCreate(savedInstanceState)</span>
<a name="137"><span class="ln">37 </span></a> <span
class="s1">setContentView(R.layout.activity_register)</span>
<a name="138"><span class="ln">38 </span></a>
<a name="139"><span class="ln">39 </span></a> <span
class="s1">btnRegister.setOnClickListener {</span>
<a name="140"><span class="ln">40 </span></a> <span
class="s0">val </span><span class="s1">id =
inputId.text.toString()</span>
<a name="141"><span class="ln">41 </span></a> <span
class="s0">val </span><span class="s1">password =
inputPassword.text.toString()</span>
<a name="142"><span class="ln">42 </span></a>
<a name="143"><span class="ln">43 </span></a> <span

```

```

class="s0">if </span><span
class="s1">(inputOtp.text.isNullOrEmpty() &amp;&amp;
til_otp.isVisible.not()) {</span>
<a name="144"><span class="ln">44 </span></a>
<span class="s0">if </span><span class="s1">(id.isBlank() ||
password.isBlank()) {</span>
<a name="145"><span class="ln">45 </span></a>
<span class="s1">toast(</span><span class="s2">&quot;Isi data
terlebih dahulu&quot;</span><span class="s1"></span>
<a name="146"><span class="ln">46 </span></a>
<span class="s1">} </span><span class="s0">else </span><span
class="s1">{</span>
<a name="147"><span class="ln">47 </span></a>
<span class="s1">initPhoneCallback(id</span><span class="s0">,
</span><span class="s1">password)</span>
<a name="148"><span class="ln">48 </span></a>
<span class="s1">sendOtp(id.getPhoneNumberOnly() </span><span
class="s0">, </span><span class="s1">callback)</span>
<a name="149"><span class="ln">49 </span></a>
<span class="s1">inputId.isEnabled = </span><span
class="s0">>false</span>
<a name="150"><span class="ln">50 </span></a>
<span class="s1">inputPassword.isEnabled = </span><span
class="s0">>false</span>
<a name="151"><span class="ln">51 </span></a>
<span class="s1">btnRegister.visibility(</span><span
class="s0">>false</span><span class="s1"></span>
<a name="152"><span class="ln">52 </span></a>
<span class="s1">toast(</span><span
class="s2">&quot;Memproses&quot;</span><span class="s1"></span>
<a name="153"><span class="ln">53 </span></a>
<span class="s1">}</span>
<a name="154"><span class="ln">54 </span></a> <span
class="s1">} </span><span class="s0">else if </span><span
class="s1">(inputOtp.text.isNullOrEmpty().not()) {</span>
<a name="155"><span class="ln">55 </span></a>
<span class="s1">btnRegister.visibility(</span><span
class="s0">>false</span><span class="s1"></span>
<a name="156"><span class="ln">56 </span></a>
<span class="s1">inputOtp.isEnabled = </span><span
class="s0">>false</span>
<a name="157"><span class="ln">57 </span></a>
<span class="s1">toast(</span><span
class="s2">&quot;Memverifikasi&quot;</span><span class="s1"></span>
<a name="158"><span class="ln">58 </span></a>
<span class="s0">val </span><span class="s1">phoneAuthCredential
=</span>
<a name="159"><span class="ln">59 </span></a>
<span
class="s1">PhoneAuthProvider.getCredential(verificationId</span><span><s
pan class="s0">, </span><span
class="s1">inputOtp.text.toString())</span>
<a name="160"><span class="ln">60 </span></a>
<span
class="s1">signInWithPhoneAuthCredential(phoneAuthCredential</span><span><s
pan class="s0">, </span><span class="s1">id</span><span><s
pan class="s0">, </span><span class="s1">password)</span>
<a name="161"><span class="ln">61 </span></a> <span
class="s1">}</span>
<a name="162"><span class="ln">62 </span></a> <span

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class="s1">}</span>
<a name="163"><span class="ln">63 </span></a> <span
class="s1">}</span>
<a name="164"><span class="ln">64 </span></a>
<a name="165"><span class="ln">65 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">sendOtp </span>
<a name="166"><span class="ln">66 </span></a> <span
class="s1">phoneNumberOnly: String</span><span class="s0">,</span>
<a name="167"><span class="ln">67 </span></a> <span
class="s1">callback:
PhoneAuthProvider.OnVerificationStateChangedCallbacks</span>
<a name="168"><span class="ln">68 </span></a> <span
class="s1">)</span> {</span>
<a name="169"><span class="ln">69 </span></a> <span
class="s1">PhoneAuthProvider.getInstance() </span>
<a name="170"><span class="ln">70 </span></a> <span
class="s1">.verifyPhoneNumber(</span>
<a name="171"><span class="ln">71 </span></a>
<span class="s2">&quot;+62</span><span class="s0">${</span><span
class="s1">phoneNumberOnly</span><span class="s0">}</span><span
class="s2">&quot;</span><span class="s0">,</span>
<a name="172"><span class="ln">72 </span></a>
<span class="s3">2</span><span class="s0">,</span>
<a name="173"><span class="ln">73 </span></a>
<span class="s1">TimeUnit.MINUTES</span><span class="s0">,</span>
<a name="174"><span class="ln">74 </span></a>
<span class="s0">this,</span>
<a name="175"><span class="ln">75 </span></a>
<span class="s1">callback</span>
<a name="176"><span class="ln">76 </span></a> <span
class="s1">)</span>
<a name="177"><span class="ln">77 </span></a> <span
class="s1">}</span>
<a name="178"><span class="ln">78 </span></a>
<a name="179"><span class="ln">79 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onSoftKeyboardShown(isShowing: Boolean) = isShowing.let
{</span>
<a name="180"><span class="ln">80 </span></a> <span
class="s1">imageView.visibility(it.not())</span>
<a name="181"><span class="ln">81 </span></a> <span
class="s1">textHintLogin.visibility(it)</span>
<a name="182"><span class="ln">82 </span></a> <span
class="s1">}</span>
<a name="183"><span class="ln">83 </span></a>
<a name="184"><span class="ln">84 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">initPhoneCallback(id: String</span><span class="s0">,</span>
</span><span class="s1">password: String) {</span>
<a name="185"><span class="ln">85 </span></a> <span
class="s1">callback = </span><span class="s0">object </span><span
class="s1">:
PhoneAuthProvider.OnVerificationStateChangedCallbacks() {</span>
<a name="186"><span class="ln">86 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onCodeSent(p0: String</span><span class="s0">,</span>
</span><span class="s1">p1: PhoneAuthProvider.ForceResendingToken)
{</span>
<a name="187"><span class="ln">87 </span></a>
<span class="s0">super</span><span>

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class="s1">.onCodeSent (p0</span><span class="s0">, </span><span
class="s1">p1</span>
<a name="188"><span class="ln">88 </span></a>
<span class="s0">if </span><span class="s1">(p0.isNotBlank())
{</span>
<a name="189"><span class="ln">89 </span></a>
<span class="s1">resendingToken = p1</span>
<a name="190"><span class="ln">90 </span></a>
<span class="s1">verificationId = p0</span>
<a name="191"><span class="ln">91 </span></a>
<span class="s1">toast (</span><span class="s2">&quot;Mengirim kode
verifikasi &quot;</span><span class="s1"></span>
<a name="192"><span class="ln">92 </span></a>
<a name="193"><span class="ln">93 </span></a>
<span class="s1">btnRegister.visibility (</span><span
class="s0">>true</span><span class="s1"></span>
<a name="194"><span class="ln">94 </span></a>
<span class="s1">til_otp.visibility (</span><span
class="s0">>true</span><span class="s1"></span>
<a name="195"><span class="ln">95 </span></a>
<span class="s1">inputOtp.requestFocus ()</span>
<a name="196"><span class="ln">96 </span></a>
<span class="s1">textView.text = </span><span
class="s2">&quot;Verifikasi &quot;</span></span>
<a name="197"><span class="ln">97 </span></a>
<span class="s1">}</span>
<a name="198"><span class="ln">98 </span></a> <span
class="s1">}</span>
<a name="199"><span class="ln">99 </span></a>
<a name="1100"><span class="ln">100 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onVerificationCompleted (p0: PhoneAuthCredential)
{</span>
<a name="1101"><span class="ln">101 </span></a>
<span class="s1">signInWithPhoneAuthCredential (p0</span><span
class="s0">, </span><span class="s1">id</span><span class="s0">,
</span><span class="s1">password)</span>
<a name="1102"><span class="ln">102 </span></a> <span
class="s1">}</span>
<a name="1103"><span class="ln">103 </span></a>
<a name="1104"><span class="ln">104 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onVerificationFailed (p0: FirebaseException) {</span>
<a name="1105"><span class="ln">105 </span></a>
<span class="s1">toastFailedOtp (</span><span
class="s2">&quot;</span><span class="s0">${</span><span
class="s1">p0.message</span><span class="s0">}</span><span
class="s2">&quot;</span><span class="s1"></span>
<a name="1106"><span class="ln">106 </span></a> <span
class="s1">}</span>
<a name="1107"><span class="ln">107 </span></a> <span
class="s1">}</span>
<a name="1108"><span class="ln">108 </span></a> <span
class="s1">}</span>
<a name="1109"><span class="ln">109 </span></a>
<a name="1110"><span class="ln">110 </span></a>
<a name="1111"><span class="ln">111 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">signInWithPhoneAuthCredential (</span>
<a name="1112"><span class="ln">112 </span></a> <span
class="s1">p0: PhoneAuthCredential</span><span class="s0">,</span></span>

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<a name="1113"><span class="ln">113 </span></a> <span
class="s1">id: String</span><span class="s0">,</span>
<a name="1114"><span class="ln">114 </span></a> <span
class="s1">password: String</span>
<a name="1115"><span class="ln">115 </span></a> <span
class="s1">)</span> {</span>
<a name="1116"><span class="ln">116 </span></a> <span
class="s0">val </span><span class="s1">authCredential =
FirebaseAuth.getInstance() </span>
<a name="1117"><span class="ln">117 </span></a> <span
class="s1">authCredential.signInWithCredential(p0).addOnCompleteLi
stener { p0 -&gt;</span>
<a name="1118"><span class="ln">118 </span></a> <span
class="s0">if </span><span class="s1">(p0.isSuccessful) {</span>
<a name="1119"><span class="ln">119 </span></a>
<span class="s0">val </span><span class="s1">account =
Akun </span>
<a name="1120"><span class="ln">120 </span></a>
<span class="s1">access = ID_RT</span><span class="s0">,</span>
<a name="1121"><span class="ln">121 </span></a>
<span class="s1">nama = id.getPhoneNumberOnly()</span><span
class="s0">,</span>
<a name="1122"><span class="ln">122 </span></a>
<span class="s1">head =
id.getPhoneNumberOnly().toIntOrNull()</span><span
class="s0">,</span>
<a name="1123"><span class="ln">123 </span></a>
<span class="s1">password = password</span>
<a name="1124"><span class="ln">124 </span></a>
<span class="s1">)</span>
<a name="1125"><span class="ln">125 </span></a>
<a name="1126"><span class="ln">126 </span></a>
<span class="s0">val </span><span class="s1">dbReference =
FirebaseDatabase.getInstance().reference</span>
<a name="1127"><span class="ln">127 </span></a>
<span
class="s1">dbReference.child(TABLE_USER).child(id.getPhoneNumberOn
ly()).setValue(account)</span>
<a name="1128"><span class="ln">128 </span></a>
<span class="s1">}.addOnCanceledListener {
toastFailedOtp </span><span class="s2">"&quot;cancelled
reg&quot;</span><span class="s1">}</span>
<a name="1129"><span class="ln">129 </span></a>
<span class="s1">}.addOnFailureListener {
toastFailedOtp </span><span class="s2">"&quot;failed
reg&quot;</span><span class="s1">}</span>
<a name="1130"><span class="ln">130 </span></a>
<span class="s1">}.addOnSuccessListener {</span>
<a name="1131"><span class="ln">131 </span></a>
<span class="s0">val </span><span class="s1">preferences =
SharedPreferences </span><span class="s0">this</span><span
class="s1">)</span>
<a name="1132"><span class="ln">132 </span></a>
<span class="s1">HomeRTActivity.start </span><span
class="s0">this</span><span class="s1">@RegisterActivity</span>
<a name="1133"><span class="ln">133 </span></a>
<span class="s1">preferences.saveInt(IS_LOGGED_IN</span><span
class="s0">,</span><span class="s1">ID_RT</span>
<a name="1134"><span class="ln">134 </span></a>
<span class="s1">preferences.saveString(USER_VALUE</span><span
class="s0">,</span></span><span

```



```

class="s1">Gson().toJson(account))</span>
<a name="l135"><span class="ln">135 </span></a>
<span class="s1"></span>
<a name="l136"><span class="ln">136 </span></a> <span
class="s1"></span><span class="s0">else </span><span
class="s1">toastFailedOtp(</span><span class="s2">&quot;not
success&quot;</span><span class="s1"></span>
<a name="l137"><span class="ln">137 </span></a> <span
class="s1"></span>
<a name="l138"><span class="ln">138 </span></a> <span
class="s1"></span>
<a name="l139"><span class="ln">139 </span></a>
<a name="l140"><span class="ln">140 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">toastFailedOtp(code: String) {</span>
<a name="l141"><span class="ln">141 </span></a> <span
class="s1">Log.d(</span><span
class="s2">&quot;failed_register &quot;</span><span class="s0">,
</span><span class="s1">code)</span>
<a name="l142"><span class="ln">142 </span></a> <span
class="s1">btnRegister.visibility(</span><span
class="s0">>true</span><span class="s1"></span>
<a name="l143"><span class="ln">143 </span></a> <span
class="s1">inputOtp.isEnabled = </span><span
class="s0">>true</span>
<a name="l144"><span class="ln">144 </span></a> <span
class="s1">toast(</span><span class="s2">&quot;Verifikasi gagal,
coba kembali</span><span class="s0">\n </span><span
class="s2">code: </span><span class="s0">${</span><span
class="s1">code </span><span class="s2">&quot;</span><span
class="s1"></span>
<a name="l145"><span class="ln">145 </span></a> <span
class="s1"></span>
<a name="l146"><span class="ln">146 </span></a><span
class="s1"></span></pre>
</body>
</html>

```

3. Main

a. Desain

```

<html>
<head>
<title>activity_main.xml</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
.s0 { color: #e8bf6a;}
.s1 { color: #bababa;}
.s2 { color: #6a8759;}
.s3 { color: #a9b7c6;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
activity_main.xml</font>
</center></td></tr></table>

```

```

<pre><a name="l1"><span class="ln">1    </span></a><span
class="s0">&lt;?</span><span class="s1">xml version</span><span
class="s2">=&quot;1.0&quot;; </span><span
class="s1">encoding</span><span class="s2">=&quot;utf-
8&quot;;</span><span class="s0">?&gt;</span>
<a name="l2"><span class="ln">2    </span></a><span
class="s0">&lt;stta.gabriel.ta_gabriel.view.custom.LinearLayoutTha
tDetectsSoftKeyboard </span><span
class="s1">xmlns:android</span><span
class="s2">=&quot;http://schemas.android.com/apk/res/android&quot;;
</span>
<a name="l3"><span class="ln">3    </span></a>    <span
class="s1">xmlns:app</span><span
class="s2">=&quot;http://schemas.android.com/apk/res-
auto&quot;;</span>
<a name="l4"><span class="ln">4    </span></a>    <span
class="s1">xmlns:tools</span><span
class="s2">=&quot;http://schemas.android.com/tools&quot;;</span>
<a name="l5"><span class="ln">5    </span></a>    <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/mainLayout&quot;;</span>
<a name="l6"><span class="ln">6    </span></a>    <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="l7"><span class="ln">7    </span></a>    <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="l8"><span class="ln">8    </span></a>    <span
class="s1">android:background</span><span
class="s2">=&quot;@color/soft_blue&quot;;</span>
<a name="l9"><span class="ln">9    </span></a>    <span
class="s1">android:orientation</span><span
class="s2">=&quot;vertical&quot;;</span>
<a name="l10"><span class="ln">10   </span></a>    <span
class="s1">tools:context</span><span
class="s2">=&quot;.view.auth.LoginActivity&quot;;</span><span
class="s0">&gt;</span>
<a name="l11"><span class="ln">11   </span></a>
<a name="l12"><span class="ln">12   </span></a>    <span
class="s0">&lt;androidx.constraintlayout.widget.ConstraintLayout</
span>
<a name="l13"><span class="ln">13   </span></a>    <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="l14"><span class="ln">14   </span></a>    <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;;</span><span
class="s0">&gt;</span>
<a name="l15"><span class="ln">15   </span></a>
<a name="l16"><span class="ln">16   </span></a>    <span
class="s0">&lt;androidx.constraintlayout.widget.Guideline</span>
<a name="l17"><span class="ln">17   </span></a>    <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/batas_atas&quot;;</span>
<a name="l18"><span class="ln">18   </span></a>    <span
class="s1">android:layout_width</span><span
class="s2">=&quot;wrap_content&quot;;</span>
<a name="l19"><span class="ln">19   </span></a>    <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;;</span>
<a name="l20"><span class="ln">20   </span></a>    <span

```

```
class="s1">android:orientation</span><span
class="s2">=&quot;horizontal&quot;</span>
<a name="121"><span class="ln">21 </span></a> <span
class="s1">app:layout_constraintGuide_percent</span><span
class="s2">=&quot;0.1&quot;</span><span class="s0">/&gt;</span>
<a name="122"><span class="ln">22 </span></a>
<a name="123"><span class="ln">23 </span></a> <span
class="s0">&lt;androidx.constraintlayout.widget.Guideline</span>
<a name="124"><span class="ln">24 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/batas_bawah&quot;</span>
<a name="125"><span class="ln">25 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="126"><span class="ln">26 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="127"><span class="ln">27 </span></a> <span
class="s1">android:orientation</span><span
class="s2">=&quot;horizontal&quot;</span>
<a name="128"><span class="ln">28 </span></a> <span
class="s1">app:layout_constraintGuide_percent</span><span
class="s2">=&quot;0.95&quot;</span><span class="s0">/&gt;</span>
<a name="129"><span class="ln">29 </span></a>
<a name="130"><span class="ln">30 </span></a> <span
class="s0">&lt;androidx.cardview.widget.CardView</span>
<a name="131"><span class="ln">31 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/btnlogin&quot;</span>
<a name="132"><span class="ln">32 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="133"><span class="ln">33 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="134"><span class="ln">34 </span></a> <span
class="s1">android:clickable</span><span
class="s2">=&quot;true&quot;</span>
<a name="135"><span class="ln">35 </span></a> <span
class="s1">android:focusable</span><span
class="s2">=&quot;true&quot;</span>
<a name="136"><span class="ln">36 </span></a> <span
class="s1">app:cardCornerRadius</span><span
class="s2">=&quot;15dp&quot;</span>
<a name="137"><span class="ln">37 </span></a> <span
class="s1">app:cardElevation</span><span
class="s2">=&quot;20dp&quot;</span>
<a name="138"><span class="ln">38 </span></a> <span
class="s1">app:cardUseCompatPadding</span><span
class="s2">=&quot;true&quot;</span>
<a name="139"><span class="ln">39 </span></a> <span
class="s1">app:layout_constraintBottom_toBottomOf</span><span
class="s2">=&quot;@id/batas_bawah&quot;</span>
<a name="140"><span class="ln">40 </span></a> <span
class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="141"><span class="ln">41 </span></a> <span
class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span><span class="s0">/&gt;</span>
<a name="142"><span class="ln">42 </span></a>
<a name="143"><span class="ln">43 </span></a> <span
```

```

class="s0">&lt;TextView</span>
<a name="144"><span class="ln">44 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/textView&quot;</span>
<a name="145"><span class="ln">45 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="146"><span class="ln">46 </span></a>
<span class="s1">android:layout_height</span><span><span
class="s2">=&quot;match_parent&quot;</span></span>
<a name="147"><span class="ln">47 </span></a>
<span class="s1">android:layout_marginVertical</span><span><span
class="s2">=&quot;10dp&quot;</span></span>
<a name="148"><span class="ln">48 </span></a>
<span class="s1">android:fontFamily</span><span
class="s2">=&quot;sans-serif&quot;</span>
<a name="149"><span class="ln">49 </span></a>
<span class="s1">android:text</span><span><span
class="s2">=&quot;Login&quot;</span></span>
<a name="150"><span class="ln">50 </span></a>
<span class="s1">android:textAlignment</span><span><span
class="s2">=&quot;center&quot;</span></span>
<a name="151"><span class="ln">51 </span></a>
<span class="s1">android:textColor</span><span><span
class="s2">=&quot;@color/colorAccent&quot;</span></span>
<a name="152"><span class="ln">52 </span></a>
<span class="s1">android:textSize</span><span><span
class="s2">=&quot;24sp&quot;</span></span>
<a name="153"><span class="ln">53 </span></a>
<span
class="s1">app:layout_constraintBottom_toBottomOf</span><span><span
class="s2">=&quot;parent&quot;</span></span>
<a name="154"><span class="ln">54 </span></a>
<span class="s1">app:layout_constraintEnd_toEndOf</span><span><span
class="s2">=&quot;parent&quot;</span></span>
<a name="155"><span class="ln">55 </span></a>
<span class="s1">app:layout_constraintStart_toStartOf</span><span><span
class="s2">=&quot;parent&quot;</span></span>
<a name="156"><span class="ln">56 </span></a>
<span class="s1">app:layout_constraintTop_toTopOf</span><span><span
class="s2">=&quot;parent&quot;</span></span>
<a name="157"><span class="ln">57 </span></a>
<span class="s1">app:layout_constraintVertical_bias</span><span><span
class="s2">=&quot;1.0&quot;</span></span><span class="s0">/&gt;</span>
<a name="158"><span class="ln">58 </span></a> <span
class="s0">&lt;/androidx.cardview.widget.CardView&gt;</span>
<a name="159"><span class="ln">59 </span></a>
<a name="160"><span class="ln">60 </span></a> <span
class="s0">&lt;/androidx.cardview.widget.CardView</span>
<a name="161"><span class="ln">61 </span></a> <span
class="s1">android:id</span><span><span
class="s2">=&quot;@+id/cardview2&quot;</span></span>
<a name="162"><span class="ln">62 </span></a> <span
class="s1">android:layout_width</span><span><span
class="s2">=&quot;match_parent&quot;</span></span>
<a name="163"><span class="ln">63 </span></a> <span
class="s1">android:layout_height</span><span><span
class="s2">=&quot;0dp&quot;</span></span>
<a name="164"><span class="ln">64 </span></a> <span
class="s1">android:foreground</span><span><span
class="s2">=&quot;?selectableItemBackground&quot;</span></span>

```

```
<a name="165"><span class="ln">65 </span></a> <span
class="s1">app:cardCornerRadius</span><span
class="s2">=&quot;15dp&quot;</span>
<a name="166"><span class="ln">66 </span></a> <span
class="s1">app:cardElevation</span><span
class="s2">=&quot;20dp&quot;</span>
<a name="167"><span class="ln">67 </span></a> <span
class="s1">app:cardUseCompatPadding</span><span
class="s2">=&quot;true&quot;</span>
<a name="168"><span class="ln">68 </span></a> <span
class="s1">app:layout_constraintBottom_toTopOf</span><span
class="s2">=@id/btnlogin&quot;</span>
<a name="169"><span class="ln">69 </span></a> <span
class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="170"><span class="ln">70 </span></a> <span
class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="171"><span class="ln">71 </span></a> <span
class="s1">app:layout_constraintTop_toTopOf</span><span
class="s2">=&quot;@id/batas_atas&quot;</span><span
class="s0">&gt;</span>
<a name="172"><span class="ln">72 </span></a>
<a name="173"><span class="ln">73 </span></a> <span
class="s0">&lt;androidx.constraintlayout.widget.ConstraintLayout</
span>
<a name="174"><span class="ln">74 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="175"><span class="ln">75 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="176"><span class="ln">76 </span></a>
<span class="s1">android:paddingHorizontal</span><span
class="s2">=&quot;15dp&quot;</span>
<a name="177"><span class="ln">77 </span></a>
<span class="s1">android:paddingTop</span><span
class="s2">=&quot;10dp&quot;</span><span class="s0">&gt;</span>
<a name="178"><span class="ln">78 </span></a>
<a name="179"><span class="ln">79 </span></a>
<span
class="s0">&lt;androidx.constraintlayout.widget.Guideline</span>
<a name="180"><span class="ln">80 </span></a>
<span class="s1">android:id</span><span
class="s2">=@id/batas_bawah_card&quot;</span>
<a name="181"><span class="ln">81 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="182"><span class="ln">82 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="183"><span class="ln">83 </span></a>
<span class="s1">android:orientation</span><span
class="s2">=&quot;horizontal&quot;</span>
<a name="184"><span class="ln">84 </span></a>
<span class="s1">app:layout_constraintGuide_percent</span><span
class="s2">=&quot;0.9&quot;</span><span class="s0">/&gt;</span>
<a name="185"><span class="ln">85 </span></a>
<a name="186"><span class="ln">86 </span></a>
<span class="s0">&lt;TextView</span>
<a name="187"><span class="ln">87 </span></a>
```

```
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/textHintLogin&quot;</span>
<a name="188"><span class="ln">88 </span></a>
<span class="s1">style</span><span
class="s2">=&quot;@style/TextAppearance.AppCompat.Medium&quot;</sp
an>
<a name="189"><span class="ln">89 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="190"><span class="ln">90 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="191"><span class="ln">91 </span></a>
<span class="s1">android:text</span><span class="s2">=&quot;Login
Dengan Akun yang telah terdaftar&quot;</span>
<a name="192"><span class="ln">92 </span></a>
<span class="s1">android:textAlignment</span><span
class="s2">=&quot;center&quot;</span>
<a name="193"><span class="ln">93 </span></a>
<span class="s1">android:textStyle</span><span
class="s2">=&quot;bold&quot;</span>
<a name="194"><span class="ln">94 </span></a>
<span class="s1">android:visibility</span><span
class="s2">=&quot;gone&quot;</span>
<a name="195"><span class="ln">95 </span></a>
<span class="s1">app:layout_constraintBottom_toTopOf</span><span
class="s2">=&quot;@id/til_id&quot;</span>
<a name="196"><span class="ln">96 </span></a>
<span class="s1">app:layout_constraintTop_toTopOf</span><span
class="s2">=&quot;parent&quot;</span><span
class="s0">/&gt;</span>
<a name="197"><span class="ln">97 </span></a>
<a name="198"><span class="ln">98 </span></a>
<span class="s0">&lt;ImageView</span>
<a name="199"><span class="ln">99 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/imageview&quot;</span>
<a name="1100"><span class="ln">100 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;0dp&quot;</span>
<a name="1101"><span class="ln">101 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;0dp&quot;</span>
<a name="1102"><span class="ln">102 </span></a>
<span class="s1">android:layout_marginVertical</span><span
class="s2">=&quot;20dp&quot;</span>
<a name="1103"><span class="ln">103 </span></a>
<span class="s1">android:src</span><span
class="s2">=&quot;@drawable/logogk&quot;</span>
<a name="1104"><span class="ln">104 </span></a>
<span class="s1">app:layout_constraintBottom_toTopOf</span><span
class="s2">=&quot;@id/til_id&quot;</span>
<a name="1105"><span class="ln">105 </span></a>
<span class="s1">app:layout_constraintDimensionRatio</span><span
class="s2">=&quot;1&quot;</span>
<a name="1106"><span class="ln">106 </span></a>
<span class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="1107"><span class="ln">107 </span></a>
<span class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span>
```

```
<a name="1108"><span class="ln">108 </span></a>
<span class="s1">app:layout_constraintTop_toTopOf</span><span
class="s2">=&quot;parent&quot;</span><span
class="s0">/&gt;</span>
<a name="1109"><span class="ln">109 </span></a>
<a name="1110"><span class="ln">110 </span></a>
<span
class="s0">&lt;com.google.android.material.textfield.TextInputLayo
ut</span>
<a name="1111"><span class="ln">111 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/til_id&quot;</span>
<a name="1112"><span class="ln">112 </span></a>
<span class="s1">style</span><span
class="s2">=&quot;@style/Widget.AppCompat.EditText&quot;</span>
<a name="1113"><span class="ln">113 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1114"><span class="ln">114 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="1115"><span class="ln">115 </span></a>
<span class="s1">android:layout_marginBottom</span><span
class="s2">=&quot;20dp&quot;</span>
<a name="1116"><span class="ln">116 </span></a>
<span class="s1">android:background</span><span
class="s2">=&quot;@drawable/rounded_edt&quot;</span>
<a name="1117"><span class="ln">117 </span></a>
<span class="s1">app:layout_constraintBottom_toTopOf</span><span
class="s2">=&quot;@id/til_password&quot;</span>
<a name="1118"><span class="ln">118 </span></a>
<span class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="1119"><span class="ln">119 </span></a>
<span class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span><span class="s0">&gt;</span>
<a name="1120"><span class="ln">120 </span></a>
<a name="1121"><span class="ln">121 </span></a>
<span
class="s0">&lt;com.google.android.material.textfield.TextInputEdit
Text</span>
<a name="1122"><span class="ln">122 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/inputId&quot;</span>
<a name="1123"><span class="ln">123 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1124"><span class="ln">124 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1125"><span class="ln">125 </span></a>
<span class="s1">android:background</span><span
class="s2">=&quot;@color/transparent&quot;</span>
<a name="1126"><span class="ln">126 </span></a>
<span class="s1">android:hint</span><span
class="s2">=&quot;Masukkan Nomor telepon&quot;</span>
<a name="1127"><span class="ln">127 </span></a>
<span class="s1">android:imeOptions</span><span
class="s2">=&quot;actionNext&quot;</span>
<a name="1128"><span class="ln">128 </span></a>
<span class="s1">android:inputType</span><span
```

```

class="s2">=&quot;number&quot;</span>
<a name="1129"><span class="ln">129 </span></a>
<span class="s1">android:maxLines</span><span
class="s2">=&quot;1&quot;</span>
<a name="1130"><span class="ln">130 </span></a>
<span class="s1">android:nextFocusDown</span><span
class="s2">=&quot;@id/inputPassword&quot;</span>
<a name="1131"><span class="ln">131 </span></a>
<span class="s1">android:nextFocusForward</span><span
class="s2">=&quot;@id/inputPassword&quot;</span>
<a name="1132"><span class="ln">132 </span></a>
<span class="s1">android:paddingVertical</span><span
class="s2">=&quot;5dp&quot;</span><span class="s0">/&gt;</span>
<a name="1133"><span class="ln">133 </span></a>
<a name="1134"><span class="ln">134 </span></a>
<span
class="s0">&lt;/com.google.android.material.textfield.TextInputLay
out&gt;</span>
<a name="1135"><span class="ln">135 </span></a>
<a name="1136"><span class="ln">136 </span></a>
<span
class="s0">&lt;/com.google.android.material.textfield.TextInputLayo
ut</span>
<a name="1137"><span class="ln">137 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/til_password&quot;</span>
<a name="1138"><span class="ln">138 </span></a>
<span class="s1">style</span><span
class="s2">=&quot;@style/Widget.AppCompat.EditText&quot;</span>
<a name="1139"><span class="ln">139 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1140"><span class="ln">140 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="1141"><span class="ln">141 </span></a>
<span class="s1">android:background</span><span
class="s2">=&quot;@drawable/rounded_edt&quot;</span>
<a name="1142"><span class="ln">142 </span></a>
<span
class="s1">app:layout_constraintBottom_toBottomOf</span><span
class="s2">=&quot;@id/batas_bawah_card&quot;</span>
<a name="1143"><span class="ln">143 </span></a>
<span class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="1144"><span class="ln">144 </span></a>
<span class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span><span class="s0">/&gt;</span>
<a name="1145"><span class="ln">145 </span></a>
<a name="1146"><span class="ln">146 </span></a>
<span
class="s0">&lt;/com.google.android.material.textfield.TextInputEdit
Text</span>
<a name="1147"><span class="ln">147 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/inputPassword&quot;</span>
<a name="1148"><span class="ln">148 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1149"><span class="ln">149 </span></a>
<span class="s1">android:layout_height</span><span

```



```

class="s2">=&quot;match_parent&quot;</span>
<a name="1150"><span class="ln">150 </span></a>
<span class="s1">android:background</span><span
class="s2">=&quot;@color/transparent&quot;</span>
<a name="1151"><span class="ln">151 </span></a>
<span class="s1">android:hint</span><span
class="s2">=&quot;Masukkan Password&quot;</span>
<a name="1152"><span class="ln">152 </span></a>
<span class="s1">android:imeOptions</span><span
class="s2">=&quot;actionDone&quot;</span>
<a name="1153"><span class="ln">153 </span></a>
<span class="s1">android:inputType</span><span
class="s2">=&quot;textPassword&quot;</span>
<a name="1154"><span class="ln">154 </span></a>
<span class="s1">android:maxLines</span><span
class="s2">=&quot;1&quot;</span>
<a name="1155"><span class="ln">155 </span></a>
<span class="s1">android:paddingVertical</span><span
class="s2">=&quot;5dp&quot;</span><span class="s0">/&gt;</span>
<a name="1156"><span class="ln">156 </span></a>
<a name="1157"><span class="ln">157 </span></a>
<span
class="s0">&lt;/com.google.android.material.textfield.TextInputLay
out&gt;</span>
<a name="1158"><span class="ln">158 </span></a>
<a name="1159"><span class="ln">159 </span></a>
<span class="s0">&lt;/TextView&gt;</span>
<a name="1160"><span class="ln">160 </span></a>
<span class="s1">android:id</span><span
class="s2">=&quot;@+id/btnRegister&quot;</span>
<a name="1161"><span class="ln">161 </span></a>
<span class="s1">android:textColor</span><span
class="s2">=&quot;@android:color/holo_blue_dark&quot;</span>
<a name="1162"><span class="ln">162 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="1163"><span class="ln">163 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="1164"><span class="ln">164 </span></a>
<span
class="s1">app:layout_constraintBottom_toBottomOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="1165"><span class="ln">165 </span></a>
<span class="s1">android:text</span><span class="s2">=&quot;Belum
punya akun? daftar disini&quot;</span>
<a name="1166"><span class="ln">166 </span></a>
<span class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="1167"><span class="ln">167 </span></a>
<span class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="1168"><span class="ln">168 </span></a>
<span class="s1">app:layout_constraintTop_toBottomOf</span><span
class="s2">=&quot;@id/til_password&quot;</span><span
class="s0">/&gt;</span>
<a name="1169"><span class="ln">169 </span></a>
<a name="1170"><span class="ln">170 </span></a>
<a name="1171"><span class="ln">171 </span></a> <span
class="s0">&lt;/androidx.constraintlayout.widget.ConstraintLayout&
&gt;</span>

```

```

<a name="1172"><span class="ln">172 </span></a>
<a name="1173"><span class="ln">173 </span></a> <span
class="s0">&lt;/androidx.cardview.widget.CardView&gt;</span>
<a name="1174"><span class="ln">174 </span></a>
<a name="1175"><span class="ln">175 </span></a> <span
class="s0">&lt;FrameLayout</span>
<a name="1176"><span class="ln">176 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/progressLay&quot;</span>
<a name="1177"><span class="ln">177 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1178"><span class="ln">178 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="1179"><span class="ln">179 </span></a> <span
class="s1">android:background</span><span
class="s2">=&quot;#94000000&quot;</span>
<a name="1180"><span class="ln">180 </span></a> <span
class="s1">android:clickable</span><span
class="s2">=&quot;true&quot;</span>
<a name="1181"><span class="ln">181 </span></a> <span
class="s1">android:focusable</span><span
class="s2">=&quot;true&quot;</span>
<a name="1182"><span class="ln">182 </span></a> <span
class="s1">android:translationZ</span><span
class="s2">=&quot;30dp&quot;</span>
<a name="1183"><span class="ln">183 </span></a> <span
class="s1">android:visibility</span><span
class="s2">=&quot;gone&quot;</span><span class="s0">&gt;</span>
<a name="1184"><span class="ln">184 </span></a>
<a name="1185"><span class="ln">185 </span></a> <span
class="s0">&lt;ProgressBar</span>
<a name="1186"><span class="ln">186 </span></a>
<span class="s1">android:layout_width</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="1187"><span class="ln">187 </span></a>
<span class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="1188"><span class="ln">188 </span></a>
<span class="s1">android:layout_gravity</span><span
class="s2">=&quot;center&quot;</span><span
class="s0">/&gt;</span>
<a name="1189"><span class="ln">189 </span></a> <span
class="s0">&lt;/FrameLayout&gt;</span>
<a name="1190"><span class="ln">190 </span></a>
<a name="1191"><span class="ln">191 </span></a> <span
class="s0">&lt;/androidx.constraintlayout.widget.ConstraintLayout&
gt;</span>
<a name="1192"><span class="ln">192 </span></a>
<a name="1193"><span class="ln">193 </span></a><span
class="s0">&lt;/stta.gabriel.ta.gabriel.view.custom.LinearLayoutTh
atDetectsSoftKeyboard&gt;</span></pre>
</body>
</html>

```

b. Code

c. </head>

```

<body bgcolor="#2b2b2b">
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"

```

```

BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
BaseActivity.kt</font>
</center></td></tr></table>
<pre><a name="l1"><span class="ln">1      </span></a><span
class="s0">package </span><span
class="s1">stta.gabriel.ta.gabriel.base</span>
<a name="l2"><span class="ln">2      </span></a>
<a name="l3"><span class="ln">3      </span></a><span
class="s1">import androidx.appcompat.app.AppCompatActivity</span>
<a name="l4"><span class="ln">4      </span></a>
<a name="l5"><span class="ln">5      </span></a><span
class="s1">open </span><span class="s0">class </span><span
class="s1">BaseActivity : AppCompatActivity() {</span>
<a name="l6"><span class="ln">6      </span></a>
<a name="l7"><span class="ln">7      </span></a>      <span
class="s0">>fun </span><span class="s1">setTitle(textTitle: String)
{</span>
<a name="l8"><span class="ln">8      </span></a>      <span
class="s1">title = textTitle</span>
<a name="l9"><span class="ln">9      </span></a>      <span
class="s1">}</span>
<a name="l10"><span class="ln">10     </span></a>
<a name="l11"><span class="ln">11     </span></a><span
class="s1">}</span></pre>
</body>
</html>

```

4. Menu

a. Desain

```

<html>
<head>
<title>activity_menu_rt.xml</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
.s0 { color: #e8bf6a;}
.s1 { color: #bababa;}
.s2 { color: #6a8759;}
.s3 { color: #a9b7c6;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
activity_menu_rt.xml</font>
</center></td></tr></table>
<pre><a name="l1"><span class="ln">1      </span></a><span
class="s0">&lt;?</span><span class="s1">xml version</span><span
class="s2">=&quot;1.0&quot;; </span><span
class="s1">&gt;encoding</span><span class="s2">=&quot;utf-8&quot;;</span>
<a name="l2"><span class="ln">2      </span></a><span
class="s0">&lt;androidx.constraintlayout.widget.ConstraintLayout
</span><span class="s1">xmlns:android</span><span
class="s2">=&quot;http://schemas.android.com/apk/res/android&quot;;

```

```

</span>
<a name="13"><span class="ln">3 </span></a> <span
class="s1">xmlns:app</span><span
class="s2">=&quot;http://schemas.android.com/apk/res-
auto&quot;</span>
<a name="14"><span class="ln">4 </span></a> <span
class="s1">xmlns:tools</span><span
class="s2">=&quot;http://schemas.android.com/tools&quot;</span>
<a name="15"><span class="ln">5 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="16"><span class="ln">6 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="17"><span class="ln">7 </span></a> <span
class="s1">android:background</span><span
class="s2">=&quot;@color/soft_blue&quot;</span>
<a name="18"><span class="ln">8 </span></a> <span
class="s1">tools:context</span><span
class="s2">=&quot;.view.menu.officer.HomeActivity&quot;</span><spa
n class="s0">&gt;</span>
<a name="19"><span class="ln">9 </span></a>
<a name="110"><span class="ln">10 </span></a> <span
class="s0">&lt;FrameLayout</span>
<a name="111"><span class="ln">11 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/container&quot;</span>
<a name="112"><span class="ln">12 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;0dp&quot;</span>
<a name="113"><span class="ln">13 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;0dp&quot;</span>
<a name="114"><span class="ln">14 </span></a> <span
class="s1">app:layout_constraintBottom_toTopOf</span><span
class="s2">=&quot;@id/navigation&quot;</span>
<a name="115"><span class="ln">15 </span></a> <span
class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="116"><span class="ln">16 </span></a> <span
class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="117"><span class="ln">17 </span></a> <span
class="s1">app:layout_constraintTop_toTopOf</span><span
class="s2">=&quot;parent&quot;</span><span class="s0">&gt;</span>
<a name="118"><span class="ln">18 </span></a>
<a name="119"><span class="ln">19 </span></a>
<a name="120"><span class="ln">20 </span></a>
<a name="121"><span class="ln">21 </span></a> <span
class="s0">&lt;/FrameLayout&gt;</span>
<a name="122"><span class="ln">22 </span></a>
<a name="123"><span class="ln">23 </span></a>
<a name="124"><span class="ln">24 </span></a> <span
class="s0">&lt;com.google.android.material.bottomnavigation.Bottom
NavigationView</span>
<a name="125"><span class="ln">25 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="126"><span class="ln">26 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>

```

```

<a name="127"><span class="ln">27 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/navigation&quot;</span>
<a name="128"><span class="ln">28 </span></a> <span
class="s1">app:layout_constraintBottom_toBottomOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="129"><span class="ln">29 </span></a> <span
class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="130"><span class="ln">30 </span></a> <span
class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="131"><span class="ln">31 </span></a> <span
class="s1">android:background</span><span
class="s2">=&quot;#666666&quot;</span>
<a name="132"><span class="ln">32 </span></a> <span
class="s1">app:itemIconTint</span><span
class="s2">=&quot;@drawable/color_state&quot;</span>
<a name="133"><span class="ln">33 </span></a> <span
class="s1">app:itemTextColor</span><span
class="s2">=&quot;@drawable/color_state&quot;</span>
<a name="134"><span class="ln">34 </span></a> <span
class="s1">app:menu</span><span
class="s2">=&quot;@menu/bottom_navigation_rt&quot;</span><span
class="s0">/&gt;</span>
<a name="135"><span class="ln">35 </span></a>
<a name="136"><span class="ln">36 </span></a>
<a name="137"><span class="ln">37 </span></a>
<a name="138"><span class="ln">38 </span></a><span
class="s0">&lt;/androidx.constraintlayout.widget.ConstraintLayout&
gt;</span></pre>
</body>
</html>

```

b. Code

```

<html>
<head>
<title>HomeActivity.kt</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
.s0 { color: #cc7832;}
.s1 { color: #a9b7c6;}
.s2 { color: #6897bb;}
.ln { color: #606366; font-weight: normal; font-style: normal;}
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
HomeActivity.kt</font>
</center></td></tr></table>
<pre><a name="11"><span class="ln">1 </span></a><span
class="s0">package </span><span
class="s1">stta.gabriel.ta.gabriel.view.menu.officer</span>
<a name="12"><span class="ln">2 </span></a>
<a name="13"><span class="ln">3 </span></a><span
class="s1">import android.app.Activity</span>
<a name="14"><span class="ln">4 </span></a><span

```

```

class="s1">import android.content.Intent</span>
<a name="15"><span class="ln">5 </span></a><span
class="s1">import android.os.Bundle</span>
<a name="16"><span class="ln">6 </span></a><span
class="s1">import android.view.MenuItem</span>
<a name="17"><span class="ln">7 </span></a><span
class="s1">import androidx.fragment.app.Fragment</span>
<a name="18"><span class="ln">8 </span></a><span
class="s1">import androidx.fragment.app.FragmentTransaction</span>
<a name="19"><span class="ln">9 </span></a><span
class="s1">import
com.google.android.material.bottomnavigation.BottomNavigationView<
/ span>
<a name="110"><span class="ln">10 </span></a><span
class="s1">import com.google.gson.Gson</span>
<a name="111"><span class="ln">11 </span></a><span
class="s1">import
kotlinx.android.synthetic.main.activity_laporan.*</span>
<a name="112"><span class="ln">12 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.R</span>
<a name="113"><span class="ln">13 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.base.BaseActivity</span>
<a name="114"><span class="ln">14 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.model.Akun</span>
<a name="115"><span class="ln">15 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.util.*</span>
<a name="116"><span class="ln">16 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.auth.LoginActivity</span>
<a name="117"><span class="ln">17 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.menu.officer.laporan.LaporanFragment<
/ span>
<a name="118"><span class="ln">18 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.menu.officer.riwayat.RiwayatFragment<
/ span>
<a name="119"><span class="ln">19 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.menu.officer.ulasan.UlasanFragment</s
pan>
<a name="120"><span class="ln">20 </span></a>
<a name="121"><span class="ln">21 </span></a><span
class="s0">class </span><span class="s1">HomeActivity :
BaseActivity() {</span>
<a name="122"><span class="ln">22 </span></a></span>
<a name="123"><span class="ln">23 </span></a> <span
class="s1">private </span><span class="s0">var </span><span
class="s1">lastTab = </span><span class="s2">0</span></span>
<a name="124"><span class="ln">24 </span></a> <span
class="s0">var </span><span class="s1">fragment: Fragment? =
</span><span class="s0">null</span></span>
<a name="125"><span class="ln">25 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">preferences: SharedPreferences</span>
<a name="126"><span class="ln">26 </span></a> <span
class="s1">lateinit </span><span class="s0">var </span><span
class="s1">akun: Akun</span>
<a name="127"><span class="ln">27 </span></a>
<a name="128"><span class="ln">28 </span></a> <span
class="s1">private </span><span class="s0">val </span><span
class="s1">

```

```

class="s1">onNavigationItemSelectedListener =</span>
<a name="129"><span class="ln">29 </span></a> <span
class="s1">BottomNavigationView.OnNavigationItemSelectedListener {
item: MenuItem -&gt;</span>
<a name="130"><span class="ln">30 </span></a> <span
class="s0">if </span><span class="s1">(item.itemId !=
lastTab)</span>
<a name="131"><span class="ln">31 </span></a>
<span class="s0">when </span><span class="s1">(item.itemId)
{</span>
<a name="132"><span class="ln">32 </span></a>
<span class="s1">R.id.menu_laporan -&gt; {</span>
<a name="133"><span class="ln">33 </span></a>
<span class="s1">fragment = LaporanFragment.newInstance()</span>
<a name="134"><span class="ln">34 </span></a>
<span class="s1">}</span>
<a name="135"><span class="ln">35 </span></a>
<span class="s1">R.id.menu_riwayat -&gt; {</span>
<a name="136"><span class="ln">36 </span></a>
<span class="s1">fragment = RiwayatFragment.newInstance()</span>
<a name="137"><span class="ln">37 </span></a>
<span class="s1">}</span>
<a name="138"><span class="ln">38 </span></a>
<span class="s1">R.id.menu_ulasan -&gt; {</span>
<a name="139"><span class="ln">39 </span></a>
<span class="s1">fragment = UlasanFragment.newInstance()</span>
<a name="140"><span class="ln">40 </span></a>
<span class="s1">}</span>
<a name="141"><span class="ln">41 </span></a>
<span class="s1">}</span>
<a name="142"><span class="ln">42 </span></a> <span
class="s0">if </span><span class="s1">(fragment != </span><span
class="s0">>null</span><span class="s1">) {</span>
<a name="143"><span class="ln">43 </span></a>
<span class="s1">lastTab = item.itemId</span>
<a name="144"><span class="ln">44 </span></a>
<span class="s1">supportFragmentManager</span>
<a name="145"><span class="ln">45 </span></a>
<span class="s1">.beginTransaction()</span>
<a name="146"><span class="ln">46 </span></a>
<span
class="s1">}.setTransition(FragmentTransaction.TRANSIT_FRAGMENT_OPE
N)</span>
<a name="147"><span class="ln">47 </span></a>
<span class="s1">.replace(R.id.container</span><span class="s0">,
</span><span class="s1">fragment!!)</span>
<a name="148"><span class="ln">48 </span></a>
<span class="s1">.commit()</span>
<a name="149"><span class="ln">49 </span></a> <span
class="s1">}</span>
<a name="150"><span class="ln">50 </span></a> <span
class="s0">>true</span>
<a name="151"><span class="ln">51 </span></a> <span
class="s1">}</span>
<a name="152"><span class="ln">52 </span></a>
<a name="153"><span class="ln">53 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onCreate(savedInstanceState: Bundle?) {</span>
<a name="154"><span class="ln">54 </span></a> <span
class="s0">super</span><span class="s1">
class="s1">.onCreate(savedInstanceState)</span>

```

```

<a name="155"><span class="ln">55 </span></a> <span
class="s1">setContentView(R.layout.activity_laporan)</span>
<a name="156"><span class="ln">56 </span></a> <span
class="s1">setTitle(getString(R.string.officer_menu_title_text))</
span>
<a name="157"><span class="ln">57 </span></a> <span
class="s1">navigation.setOnNavigationItemSelectedListener(mOnNaviga
tionItemSelectedListener)</span>
<a name="158"><span class="ln">58 </span></a> <span
class="s1">savedInstanceState?.getInt(SELECTED_MENU) ?:
setNavTab()</span>
<a name="159"><span class="ln">59 </span></a> <span
class="s1">preferences = SharedPrefs</span><span
class="s0">this</span><span class="s1"></span></span>
<a name="160"><span class="ln">60 </span></a> <span
class="s1">akun =
Gson().fromJson(preferences.getString(USER_VALUE)</span><span
class="s0">, </span><span class="s1">Akun: :</span><span
class="s0">class</span><span class="s1">.java)</span>
<a name="161"><span class="ln">61 </span></a> <span
class="s1">}</span>
<a name="162"><span class="ln">62 </span></a>
<a name="163"><span class="ln">63 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">setNavTab() {</span>
<a name="164"><span class="ln">64 </span></a> <span
class="s1">navigation.selectedItemId = R.id.menu_laporan</span>
<a name="165"><span class="ln">65 </span></a> <span
class="s1">}</span>
<a name="166"><span class="ln">66 </span></a>
<a name="167"><span class="ln">67 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onSaveInstanceState(outState: Bundle) {</span>
<a name="168"><span class="ln">68 </span></a> <span
class="s0">super</span><span class="s1">.onSaveInstanceState(outState)</span>
<a name="169"><span class="ln">69 </span></a> <span
class="s1">outState.putInt(SELECTED_MENU</span><span class="s0">,
</span><span class="s1">navigation.selectedItemId)</span>
<a name="170"><span class="ln">70 </span></a> <span
class="s1">}</span>
<a name="171"><span class="ln">71 </span></a>
<a name="172"><span class="ln">72 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onBackPressed() {</span>
<a name="173"><span class="ln">73 </span></a> <span
class="s1">showDialog</span>
<a name="174"><span class="ln">74 </span></a> <span
class="s1">cancelable = </span><span class="s0">>false,</span>
<a name="175"><span class="ln">75 </span></a> <span
class="s1">cancelableTouchOutside = </span><span
class="s0">>true</span>
<a name="176"><span class="ln">76 </span></a> <span
class="s1">)</span> {</span>
<a name="177"><span class="ln">77 </span></a> <span
class="s1">setTitle(getString(R.string.exit_title_text))</span>
<a name="178"><span class="ln">78 </span></a> <span
class="s1">positiveButton(getString(R.string.logout_text))
{</span>
<a name="179"><span class="ln">79 </span></a>
<span class="s1">preferences.saveInt(IS_LOGGED_IN</span><span

```



```

class="s0">, </span><span class="s2">0</span><span
class="s1"></span>
<a name="180"><span class="ln">80 </span></a>
<span class="s1">startActivity(Intent(</span><span
class="s0">this</span><span class="s1">@HomeActivity</span><span
class="s0">, </span><span class="s1">LoginActivity::</span><span
class="s0">class</span><span class="s1">.java)</span>
<a name="181"><span class="ln">81 </span></a>
<span class="s1">finishAffinity(</span>
<a name="182"><span class="ln">82 </span></a> <span
class="s1"></span>
<a name="183"><span class="ln">83 </span></a> <span
class="s1">negativeButton(getString(R.string.exit_text)) {</span>
<a name="184"><span class="ln">84 </span></a>
<span class="s0">super</span><span
class="s1">.onBackPressed(</span>
<a name="185"><span class="ln">85 </span></a> <span
class="s1"></span>
<a name="186"><span class="ln">86 </span></a> <span
class="s1">neutralButton(getString(R.string.cancel_text)) {</span>
<a name="187"><span class="ln">87 </span></a>
<a name="188"><span class="ln">88 </span></a> <span
class="s1"></span>
<a name="189"><span class="ln">89 </span></a> <span
class="s1"></span>
<a name="190"><span class="ln">90 </span></a> <span
class="s1"></span>
<a name="191"><span class="ln">91 </span></a>
<a name="192"><span class="ln">92 </span></a>
<a name="193"><span class="ln">93 </span></a> <span
class="s1">companion </span><span class="s0">object </span><span
class="s1">{</span>
<a name="194"><span class="ln">94 </span></a> <span
class="s0">fun </span><span class="s1">start(activity: Activity)
{</span>
<a name="195"><span class="ln">95 </span></a> <span
class="s0">val </span><span class="s1">intent =
Intent(activity</span><span class="s0">, </span><span
class="s1">HomeActivity::</span><span class="s0">class</span><span
class="s1">.java)</span>
<a name="196"><span class="ln">96 </span></a> <span
class="s1">activity.startActivity(intent)</span>
<a name="197"><span class="ln">97 </span></a> <span
class="s1">activity.finish(</span>
<a name="198"><span class="ln">98 </span></a> <span
class="s1"></span>
<a name="199"><span class="ln">99 </span></a> <span
class="s1"></span>
<a name="1100"><span class="ln">100 </span></a><span
class="s1"></span>
<a name="1101"><span class="ln">101 </span></a></pre>
</body>
</html>

```

5. Laporan

a. Desain

```

<html>
<head>
<title>activity_laporan.xml</title>

```

```

<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
.s0 { color: #e8bf6a;}
.s1 { color: #bababa;}
.s2 { color: #6a8759;}
.s3 { color: #a9b7c6;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
activity_laporan.xml</font>
</center></td></tr></table>
<pre><a name="l1"><span class="ln">1 </span></a><span
class="s0">&lt;?</span><span class="s1">xml version</span><span
class="s2">=&quot;1.0&quot;; </span><span
class="s1">encoding</span><span class="s2">=&quot;utf-
8&quot;;</span><span class="s0">?&gt;</span>
<a name="l2"><span class="ln">2 </span></a><span
class="s0">&lt;androidx.constraintlayout.widget.ConstraintLayout
</span><span class="s1">>xmlns:android</span><span
class="s2">=&quot;http://schemas.android.com/apk/res/android&quot;;
</span>
<a name="l3"><span class="ln">3 </span></a> <span
class="s1">>xmlns:app</span><span
class="s2">=&quot;http://schemas.android.com/apk/res-
auto&quot;;</span>
<a name="l4"><span class="ln">4 </span></a> <span
class="s1">>xmlns:tools</span><span
class="s2">=&quot;http://schemas.android.com/tools&quot;;</span>
<a name="l5"><span class="ln">5 </span></a> <span
class="s1">>android:layout_width</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="l6"><span class="ln">6 </span></a> <span
class="s1">>android:layout_height</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="l7"><span class="ln">7 </span></a> <span
class="s1">>android:background</span><span
class="s2">=&quot;@color/soft_green&quot;;</span>
<a name="l8"><span class="ln">8 </span></a> <span
class="s1">>tools:context</span><span
class="s2">=&quot;.view.menu.officer.HomeActivity&quot;;</span><spa
n class="s0">&gt;</span>
<a name="l9"><span class="ln">9 </span></a>
<a name="l10"><span class="ln">10 </span></a> <span
class="s0">&lt;FrameLayout</span>
<a name="l11"><span class="ln">11 </span></a> <span
class="s1">>android:id</span><span
class="s2">=&quot;@+id/container&quot;;</span>
<a name="l12"><span class="ln">12 </span></a> <span
class="s1">>android:layout_width</span><span
class="s2">=&quot;0dp&quot;;</span>
<a name="l13"><span class="ln">13 </span></a> <span
class="s1">>android:layout_height</span><span
class="s2">=&quot;0dp&quot;;</span>
<a name="l14"><span class="ln">14 </span></a> <span
class="s1">>app:layout_constraintBottom_toTopOf</span><span

```

```

class="s2">=&quot;@id/navigation&quot;</span>
<a name="115"><span class="ln">15 </span></a> <span
class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="116"><span class="ln">16 </span></a> <span
class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="117"><span class="ln">17 </span></a> <span
class="s1">app:layout_constraintTop_toTopOf</span><span
class="s2">=&quot;parent&quot;</span><span class="s0">&gt;</span>
<a name="118"><span class="ln">18 </span></a>
<a name="119"><span class="ln">19 </span></a> <span
class="s0">&lt;/FrameLayout&gt;</span>
<a name="120"><span class="ln">20 </span></a>
<a name="121"><span class="ln">21 </span></a>
<a name="122"><span class="ln">22 </span></a> <span
class="s0">&lt;/com.google.android.material.bottomnavigation.Bottom
NavigationView</span>
<a name="123"><span class="ln">23 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="124"><span class="ln">24 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="125"><span class="ln">25 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/navigation&quot;</span>
<a name="126"><span class="ln">26 </span></a> <span
class="s1">app:layout_constraintBottom_toBottomOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="127"><span class="ln">27 </span></a> <span
class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="128"><span class="ln">28 </span></a> <span
class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="129"><span class="ln">29 </span></a> <span
class="s1">android:background</span><span
class="s2">=&quot;#666666&quot;</span>
<a name="130"><span class="ln">30 </span></a> <span
class="s1">app:itemIconTint</span><span
class="s2">=&quot;@drawable/color_state&quot;</span>
<a name="131"><span class="ln">31 </span></a> <span
class="s1">app:itemTextColor</span><span
class="s2">=&quot;@drawable/color_state&quot;</span>
<a name="132"><span class="ln">32 </span></a> <span
class="s1">app:menu</span><span
class="s2">=&quot;@menu/bottom_navigation&quot;</span><span
class="s0">/&gt;</span>
<a name="133"><span class="ln">33 </span></a>
<a name="134"><span class="ln">34 </span></a>
<a name="135"><span class="ln">35 </span></a>
<a name="136"><span class="ln">36 </span></a><span
class="s0">&lt;/androidx.constraintlayout.widget.ConstraintLayout&
&gt;</span></pre>
</body>
</html>

```

b. Code

```

<html>
<head>
<title>LaporanAdapter.kt</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
.s0 { color: #cc7832;}
.s1 { color: #a9b7c6;}
.s2 { color: #6a8759;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
LaporanAdapter.kt</font>
</center></td></tr></table>
<pre><a name="l1"><span class="ln">1      </span></a><span
class="s0">package </span><span
class="s1">stta.gabriel.ta_gabriel.view.menu.officer.laporan</span
>
<a name="l2"><span class="ln">2      </span></a>
<a name="l3"><span class="ln">3      </span></a><span
class="s1">import android.view.LayoutInflater</span>
<a name="l4"><span class="ln">4      </span></a><span
class="s1">import android.view.View</span>
<a name="l5"><span class="ln">5      </span></a><span
class="s1">import android.view.ViewGroup</span>
<a name="l6"><span class="ln">6      </span></a><span
class="s1">import androidx.recyclerview.widget.RecyclerView</span>
<a name="l7"><span class="ln">7      </span></a><span
class="s1">import
kotlinx.android.synthetic.main.item_laporan.view.*</span>
<a name="l8"><span class="ln">8      </span></a><span
class="s1">import stta.gabriel.ta_gabriel.R</span>
<a name="l9"><span class="ln">9      </span></a><span
class="s1">import stta.gabriel.ta_gabriel.model.ItemLaporan</span>
<a name="l10"><span class="ln">10     </span></a><span
class="s1">import stta.gabriel.ta_gabriel.util.ID_UNDONE</span>
<a name="l11"><span class="ln">11     </span></a>
<a name="l12"><span class="ln">12     </span></a><span
class="s0">class </span><span class="s1">LaporanAdapter</span>
<a name="l13"><span class="ln">13     </span></a> <span
class="s1">private </span><span class="s0">val </span><span
class="s1">items: MutableList<ItemLaporan></span><span
class="s0">,</span>
<a name="l14"><span class="ln">14     </span></a> <span
class="s1">private </span><span class="s0">val </span><span
class="s1">callback: ItemAdapterCallback</span>
<a name="l15"><span class="ln">15     </span></a><span class="s1">
: RecyclerView.Adapter<LaporanAdapter.Holder>() {</span>
<a name="l16"><span class="ln">16     </span></a>
<a name="l17"><span class="ln">17     </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onCreateViewHolder(parent: ViewGroup</span><span
class="s0">,</span> <span class="s1">viewType: Int): Holder
{</span>
<a name="l18"><span class="ln">18     </span></a> <span
class="s0">val </span><span class="s1">view =

```

```

LayoutInflater.from(parent.context).inflate(R.layout.item_laporan<
/ span><span class="s0">, </span><span
class="s1">parent</span><span class="s0">, false</span><span
class="s1">)</span>
<a name="119"><span class="ln">19 </span></a> <span
class="s0">return </span><span class="s1">Holder(itemView =
view)</span>
<a name="120"><span class="ln">20 </span></a> <span
class="s1">}</span>
<a name="121"><span class="ln">21 </span></a>
<a name="122"><span class="ln">22 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">getItemCount() = items.size</span>
<a name="123"><span class="ln">23 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">getItemId(position: Int) = position.toLong()</span>
<a name="124"><span class="ln">24 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">getItemViewType(position: Int) = position</span>
<a name="125"><span class="ln">25 </span></a>
<a name="126"><span class="ln">26 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onBindViewHolder(p0: Holder</span><span class="s0">,
</span><span class="s1">p1: Int) {</span>
<a name="127"><span class="ln">27 </span></a> <span
class="s0">val </span><span class="s1">item = items[p1]</span>
<a name="128"><span class="ln">28 </span></a> <span
class="s1">p0.bind(item)</span>
<a name="129"><span class="ln">29 </span></a> <span
class="s1">}</span>
<a name="130"><span class="ln">30 </span></a>
<a name="131"><span class="ln">31 </span></a>
<a name="132"><span class="ln">32 </span></a> <span
class="s1">inner </span><span class="s0">class </span><span
class="s1">Holder(itemView: View) :
RecyclerView.ViewHolder(itemView) {</span>
<a name="133"><span class="ln">33 </span></a>
<a name="134"><span class="ln">34 </span></a>
<a name="135"><span class="ln">35 </span></a> <span
class="s0">fun </span><span class="s1">bind(item: ItemLaporan)
{</span>
<a name="136"><span class="ln">36 </span></a> <span
class="s1">itemView.apply {</span>
<a name="137"><span class="ln">37 </span></a>
<span class="s1">itemTitle.text = item.pelapor</span>
<a name="138"><span class="ln">38 </span></a>
<span class="s1">itemStatus.text = </span><span class="s0">if
</span><span class="s1">(item.status == ID_UNDONE) </span><span
class="s2">&quot;Belum dikerjakan&quot;</span>
<a name="139"><span class="ln">39 </span></a>
<span class="s0">else </span><span class="s2">&quot;Dalam
Pengerjaan&quot;</span>
<a name="140"><span class="ln">40 </span></a>
<span class="s1">setOnClickListener { callback.itemClick(item)
}</span>
<a name="141"><span class="ln">41 </span></a> <span
class="s1">}</span>
<a name="142"><span class="ln">42 </span></a> <span
class="s1">}</span>
<a name="143"><span class="ln">43 </span></a> <span
class="s1">}</span>

```

```

<a name="144"><span class="ln">44 </span></a>
<a name="145"><span class="ln">45 </span></a> <span
class="s0">interface </span><span class="s1">ItemAdapterCallback
{</span>
<a name="146"><span class="ln">46 </span></a> <span
class="s0">fun </span><span class="s1">itemClick(item:
ItemLaporan)</span>
<a name="147"><span class="ln">47 </span></a>
<a name="148"><span class="ln">48 </span></a> <span
class="s1">}</span>
<a name="149"><span class="ln">49 </span></a><span
class="s1">}</span></pre>
</body>
</html>

```

c. Fragment laporan

```

<html>
<head>
<title>LaporanFragment.kt</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
.s0 { color: #cc7832;}
.s1 { color: #a9b7c6;}
.s2 { color: #808080;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
LaporanFragment.kt</font>
</center></td></tr></table>
<pre><a name="11"><span class="ln">1 </span></a><span
class="s0">package </span><span
class="s1">stta.gabriel.ta_gabriel.view.menu.officer.laporan</span>
>
<a name="12"><span class="ln">2 </span></a></span></a>
<a name="13"><span class="ln">3 </span></a></span></a>
<a name="14"><span class="ln">4 </span></a><span
class="s1">import android.content.Context</span>
<a name="15"><span class="ln">5 </span></a><span
class="s1">import android.content.Intent</span>
<a name="16"><span class="ln">6 </span></a><span
class="s1">import android.os.Bundle</span>
<a name="17"><span class="ln">7 </span></a><span
class="s1">import android.view.LayoutInflater</span>
<a name="18"><span class="ln">8 </span></a><span
class="s1">import android.view.View</span>
<a name="19"><span class="ln">9 </span></a><span
class="s1">import android.view.ViewGroup</span>
<a name="110"><span class="ln">10 </span></a><span
class="s1">import androidx.fragment.app.Fragment</span>
<a name="111"><span class="ln">11 </span></a><span
class="s1">import
androidx.recyclerview.widget.LinearLayoutManager</span>
<a name="112"><span class="ln">12 </span></a><span
class="s1">import com.google.firebase.database.*</span>
<a name="113"><span class="ln">13 </span></a><span
class="s1">import

```

```

kotlinx.android.synthetic.main.fragment_laporan.*</span>
<a name="114"><span class="ln">14 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.R</span>
<a name="115"><span class="ln">15 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.model.ItemLaporan</span>
<a name="116"><span class="ln">16 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.util.ID_PROGRESS</span>
<a name="117"><span class="ln">17 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.util.ID_UNDONE</span>
<a name="118"><span class="ln">18 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.util.TABLE_LAPORAN</span>
<a name="119"><span class="ln">19 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.util.default</span>
<a name="120"><span class="ln">20 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.detaillaporan.DetailLaporanActivity</
span>
<a name="121"><span class="ln">21 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.detaillaporan.DetailLaporanActivity.C
ompanion.startDetail</span>
<a name="122"><span class="ln">22 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.menu.officer.HomeActivity</span>
<a name="123"><span class="ln">23 </span></a>
<a name="124"><span class="ln">24 </span></a><span
class="s0">class </span><span class="s1">LaporanFragment :
Fragment() </span><span class="s0">, </span><span
class="s1">LaporanAdapter.ItemAdapterCallback {</span>
<a name="125"><span class="ln">25 </span></a> <span
class="s1">private </span><span class="s0">var </span><span
class="s1">stockList: MutableList<ItemLaporan> =
mutableListOf()</span>
<a name="126"><span class="ln">26 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">itemAdapter: LaporanAdapter</span>
<a name="127"><span class="ln">27 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">laporan: DatabaseReference</span>
<a name="128"><span class="ln">28 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">topActivity: HomeActivity</span>
<a name="129"><span class="ln">29 </span></a>
<a name="130"><span class="ln">30 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onAttach(context: Context) {</span>
<a name="131"><span class="ln">31 </span></a> <span
class="s0">super</span><span class="s1">.onAttach(context) </span>
<a name="132"><span class="ln">32 </span></a> <span
class="s1">topActivity = context </span><span class="s0">as
</span><span class="s1">HomeActivity</span>
<a name="133"><span class="ln">33 </span></a> <span
class="s1">}</span>
<a name="134"><span class="ln">34 </span></a>
<a name="135"><span class="ln">35 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onCreateView</span>
<a name="136"><span class="ln">36 </span></a> <span
class="s1">inflater: LayoutInflater</span><span class="s0">,
</span><span class="s1">container: ViewGroup</span><span

```

```

class="s0">, </span>
<a name="137"><span class="ln">37 </span></a> <span
class="s1">savedInstanceState: Bundle?</span>
<a name="138"><span class="ln">38 </span></a> <span
class="s1">): View =
inflater.inflate(R.layout.fragment_laporan</span><span
class="s0">, </span><span class="s1">container</span><span
class="s0">, false</span><span class="s1">)</span>
<a name="139"><span class="ln">39 </span></a>
<a name="140"><span class="ln">40 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onViewCreated(view: View</span><span class="s0">,
</span><span class="s1">savedInstanceState: Bundle?) {</span>
<a name="141"><span class="ln">41 </span></a> <span
class="s0">super</span><span
class="s1">.onViewCreated(view</span><span class="s0">,
</span><span class="s1">savedInstanceState)</span>
<a name="142"><span class="ln">42 </span></a> <span
class="s1">itemAdapter = LaporanAdapter(stockList</span><span
class="s0">, this</span><span class="s1">)</span>
<a name="143"><span class="ln">43 </span></a> <span
class="s1">rv_laporan.apply {</span>
<a name="144"><span class="ln">44 </span></a> <span
class="s1">layoutManager = LinearLayoutManager(context)</span>
<a name="145"><span class="ln">45 </span></a> <span
class="s1">adapter = itemAdapter</span>
<a name="146"><span class="ln">46 </span></a> <span
class="s1">}</span>
<a name="147"><span class="ln">47 </span></a> <span
class="s1">laporan =
FirebaseDatabase.getInstance().reference.child(TABLE_LAPORAN)</span>
n>
<a name="148"><span class="ln">48 </span></a> <span
class="s1">laporan.keepSynced(</span><span
class="s0">>true</span><span class="s1">)</span>
<a name="149"><span class="ln">49 </span></a> <span
class="s1">getLaporanAll()</span>
<a name="150"><span class="ln">50 </span></a> <span
class="s1">}</span>
<a name="151"><span class="ln">51 </span></a>
<a name="152"><span class="ln">52 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">getLaporanAll() {</span>
<a name="153"><span class="ln">53 </span></a> <span
class="s0">val </span><span class="s1">listUndone =
mutableListOf<ItemLaporan>()</span>
<a name="154"><span class="ln">54 </span></a> <span
class="s0">val </span><span class="s1">listProgress =
mutableListOf<ItemLaporan>()</span>
<a name="155"><span class="ln">55 </span></a> <span
class="s1">laporan.addValueEventListener(</span><span
class="s0">object </span><span class="s1">: ValueEventListener
{</span>
<a name="156"><span class="ln">56 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onCancelled(p0: DatabaseError) {</span>
<a name="157"><span class="ln">57 </span></a>
<a name="158"><span class="ln">58 </span></a> <span
class="s1">}</span>
<a name="159"><span class="ln">59 </span></a>
<a name="160"><span class="ln">60 </span></a> <span

```



```

class="s1">override </span><span class="s0">fun </span><span
class="s1">onDataChange(dataSnapshot: DataSnapshot) {</span>
<a name="161"><span class="ln">61 </span></a>
<span class="s1">listUndone.clear()</span>
<a name="162"><span class="ln">62 </span></a>
<span class="s1">listProgress.clear()</span>
<a name="163"><span class="ln">63 </span></a>
<span class="s1">stockList.clear()</span>
<a name="164"><span class="ln">64 </span></a>
<a name="165"><span class="ln">65 </span></a>
<span class="s0">if </span><span
class="s1">(dataSnapshot.exists()) {</span>
<a name="166"><span class="ln">66 </span></a>
<span class="s0">for </span><span class="s1">(data </span><span
class="s0">in </span><span class="s1">dataSnapshot.children)
{</span>
<a name="167"><span class="ln">67 </span></a>
<span class="s0">val </span><span class="s1">item =
data.getValue<&lt;ItemLaporan>&gt; (ItemLaporan::</span><span
class="s0">class</span><span class="s1">.java)</span>
<a name="168"><span class="ln">68 </span></a><span class="s2">//
if (item?.id_user == topActivity.akun.head.default()) {</span>
<a name="169"><span class="ln">69 </span></a>
<span class="s0">if </span><span class="s1">(item?.status ==
ID_UNDONE) listUndone.add(item)</span>
<a name="170"><span class="ln">70 </span></a>
<span class="s0">else if </span><span class="s1">(item?.status ==
ID_PROGRESS) listProgress.add(item)</span>
<a name="171"><span class="ln">71 </span></a><span class="s2">//
}</span>
<a name="172"><span class="ln">72 </span></a>
<span class="s1">}</span>
<a name="173"><span class="ln">73 </span></a>
<span class="s1">}</span>
<a name="174"><span class="ln">74 </span></a>
<span class="s1">stockList.addAll(listUndone)</span>
<a name="175"><span class="ln">75 </span></a>
<span class="s1">stockList.addAll(listProgress)</span>
<a name="176"><span class="ln">76 </span></a>
<span class="s1">itemAdapter.notifyDataSetChanged()</span>
<a name="177"><span class="ln">77 </span></a> <span
class="s1">}</span>
<a name="178"><span class="ln">78 </span></a> <span
class="s1">}}</span>
<a name="179"><span class="ln">79 </span></a> <span
class="s1">}</span>
<a name="180"><span class="ln">80 </span></a>
<a name="181"><span class="ln">81 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">itemClick(item: ItemLaporan) {</span>
<a name="182"><span class="ln">82 </span></a> <span
class="s0">val </span><span class="s1">intent =
Intent(context</span><span class="s0">, </span><span
class="s1">DetailLaporanActivity::</span><span
class="s0">class</span><span class="s1">.java)</span>
<a name="183"><span class="ln">83 </span></a> <span
class="s1">startActivity(startDetail(intent</span><span
class="s0">, </span><span class="s1">item</span><span class="s0">,
</span><span class="s1">item.status)</span>
<a name="184"><span class="ln">84 </span></a> <span
class="s1">}</span>

```

```

<a name="185"><span class="ln">85 </span></a>
<a name="186"><span class="ln">86 </span></a> <span
class="s1">companion </span><span class="s0">object </span><span
class="s1">{</span>
<a name="187"><span class="ln">87 </span></a> <span
class="s0">fun </span><span class="s1">newInstance(): Fragment
{</span>
<a name="188"><span class="ln">88 </span></a> <span
class="s0">return </span><span class="s1">LaporanFragment()</span></span>
<a name="189"><span class="ln">89 </span></a> <span
class="s1">}</span>
<a name="190"><span class="ln">90 </span></a> <span
class="s1">}</span>
<a name="191"><span class="ln">91 </span></a>
<a name="192"><span class="ln">92 </span></a><span
class="s1">}</span></pre>
</body>
</html>

```

6. Kirim Laporan

a. Desain

b. <html>

```
<head>
```

```
<title>activity_kirim_laporan.xml</title>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
```

```
<style type="text/css">
```

```
.s0 { color: #e8bf6a;}
```

```
.s1 { color: #bababa;}
```

```
.s2 { color: #6a8759;}
```

```
.s3 { color: #a9b7c6;}
```

```
.ln { color: #606366; font-weight: normal; font-style: normal; }
```

```
</style>
```

```
</head>
```

```
<body bgcolor="#2b2b2b">
```

```
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
```

```
<tr><td><center>
```

```
<font face="Arial, Helvetica" color="#000000">
```

```
activity_kirim_laporan.xml</font>
```

```
</center></td></tr></table>
```

```
<pre><a name="11"><span class="ln">1 </span></a><span
class="s0">&lt;?</span><span class="s1">xml version</span><span
class="s2">=&quot;1.0&quot; </span><span
class="s1">encoding</span><span class="s2">=&quot;utf-8&quot; </span><span class="s0">?&gt;</span>
```

```
<a name="12"><span class="ln">2 </span></a><span
class="s0">&lt;androidx.constraintlayout.widget.ConstraintLayout
</span><span class="s1">xmlns:android</span><span
class="s2">=&quot;http://schemas.android.com/apk/res/android&quot; </span>
```

```
</span>
<a name="13"><span class="ln">3 </span></a> <span
class="s1">xmlns:app</span><span
class="s2">=&quot;http://schemas.android.com/apk/res-
auto&quot; </span>
```

```
<a name="14"><span class="ln">4 </span></a> <span
class="s1">xmlns:tools</span><span
class="s2">=&quot;http://schemas.android.com/tools&quot; </span></span>
```

```
<a name="15"><span class="ln">5 </span></a> <span
class="s1">android:layout_width</span><span
```

```

class="s2">=&quot;match_parent&quot;</span>
<a name="16"><span class="ln">6 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="17"><span class="ln">7 </span></a> <span
class="s1">tools:context</span><span
class="s2">=&quot;.view.menu.rt.kirimlaporan.KirimLaporanActivity&
quot;</span><span class="s0">&gt;</span>
<a name="18"><span class="ln">8 </span></a>
<a name="19"><span class="ln">9 </span></a> <span
class="s0">&lt;&lt;androidx.constraintlayout.widget.Guideline</span>
<a name="110"><span class="ln">10 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/batas_tengah&quot;</span>
<a name="111"><span class="ln">11 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="112"><span class="ln">12 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="113"><span class="ln">13 </span></a> <span
class="s1">android:orientation</span><span
class="s2">=&quot;vertical&quot;</span>
<a name="114"><span class="ln">14 </span></a> <span
class="s1">app:layout_constraintGuide_percent</span><span
class="s2">=&quot;0.5&quot;</span><span class="s0">/&gt;</span>
<a name="115"><span class="ln">15 </span></a>
<a name="116"><span class="ln">16 </span></a> <span
class="s0">&lt;&lt;androidx.cardview.widget.CardView</span>
<a name="117"><span class="ln">17 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="118"><span class="ln">18 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;0dp&quot;</span>
<a name="119"><span class="ln">19 </span></a> <span
class="s1">app:cardCornerRadius</span><span
class="s2">=&quot;10dp&quot;</span>
<a name="120"><span class="ln">20 </span></a> <span
class="s1">app:cardElevation</span><span
class="s2">=&quot;20dp&quot;</span>
<a name="121"><span class="ln">21 </span></a> <span
class="s1">app:cardUseCompatPadding</span><span
class="s2">=&quot;true&quot;</span>
<a name="122"><span class="ln">22 </span></a> <span
class="s1">app:layout_constraintBottom_toTopOf</span><span
class="s2">=&quot;@id/btnkrmlprn&quot;</span>
<a name="123"><span class="ln">23 </span></a> <span
class="s1">app:layout_constraintTop_toTopOf</span><span
class="s2">=&quot;parent&quot;</span><span class="s0">&gt;</span>
<a name="124"><span class="ln">24 </span></a>
<a name="125"><span class="ln">25 </span></a> <span
class="s0">&lt;&lt;ImageView</span>
<a name="126"><span class="ln">26 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/imgkrmlprn&quot;</span>
<a name="127"><span class="ln">27 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="128"><span class="ln">28 </span></a> <span
class="s1">android:layout_height</span><span

```

```
class="s2">=&quot;match_parent&quot;</span>
<a name="129"><span class="ln">29 </span></a> <span
class="s1">android:scaleType</span><span
class="s2">=&quot;fitCenter&quot;</span>
<a name="130"><span class="ln">30 </span></a> <span
class="s1">app:layout_constraintTop_toTopOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="131"><span class="ln">31 </span></a> <span
class="s1">tools:src</span><span
class="s2">=&quot;@mipmap/ic_launcher&quot;</span><span
class="s0">/&gt;</span>
<a name="132"><span class="ln">32 </span></a> <span
class="s0">&lt;/androidx.cardview.widget.CardView&gt;</span>
<a name="133"><span class="ln">33 </span></a>
<a name="134"><span class="ln">34 </span></a> <span
class="s0">&lt;/androidx.cardview.widget.CardView</span>
<a name="135"><span class="ln">35 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/btnkrmlprn&quot;</span>
<a name="136"><span class="ln">36 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;0dp&quot;</span>
<a name="137"><span class="ln">37 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="138"><span class="ln">38 </span></a> <span
class="s1">android:clickable</span><span
class="s2">=&quot;true&quot;</span>
<a name="139"><span class="ln">39 </span></a> <span
class="s1">android:focusable</span><span
class="s2">=&quot;true&quot;</span>
<a name="140"><span class="ln">40 </span></a> <span
class="s1">app:cardCornerRadius</span><span
class="s2">=&quot;15dp&quot;</span>
<a name="141"><span class="ln">41 </span></a> <span
class="s1">app:cardElevation</span><span
class="s2">=&quot;20dp&quot;</span>
<a name="142"><span class="ln">42 </span></a> <span
class="s1">app:cardUseCompatPadding</span><span
class="s2">=&quot;true&quot;</span>
<a name="143"><span class="ln">43 </span></a> <span
class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;@id/batas_tengah&quot;</span>
<a name="144"><span class="ln">44 </span></a> <span
class="s1">app:layout_constraintBottom_toBottomOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="145"><span class="ln">45 </span></a> <span
class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span><span class="s0">&gt;</span>
<a name="146"><span class="ln">46 </span></a>
<a name="147"><span class="ln">47 </span></a> <span
class="s0">&lt;/TextView</span>
<a name="148"><span class="ln">48 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/textView&quot;</span>
<a name="149"><span class="ln">49 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="150"><span class="ln">50 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
```

```

<a name="151"><span class="ln">51 </span></a> <span
class="s1">android:layout_marginVertical</span><span
class="s2">=&quot;10dp&quot;</span>
<a name="152"><span class="ln">52 </span></a> <span
class="s1">android:fontFamily</span><span class="s2">=&quot;sans-
serif&quot;</span>
<a name="153"><span class="ln">53 </span></a> <span
class="s1">android:text</span><span
class="s2">=&quot;Kirim&quot;</span>
<a name="154"><span class="ln">54 </span></a> <span
class="s1">android:textAlignment</span><span
class="s2">=&quot;center&quot;</span>
<a name="155"><span class="ln">55 </span></a> <span
class="s1">android:textColor</span><span
class="s2">=&quot;@color/colorAccent&quot;</span>
<a name="156"><span class="ln">56 </span></a> <span
class="s1">android:textSize</span><span
class="s2">=&quot;24sp&quot;</span>
<a name="157"><span class="ln">57 </span></a> <span
class="s1">app:layout_constraintBottom_toBottomOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="158"><span class="ln">58 </span></a> <span
class="s1">app:layout_constraintEnd_toEndOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="159"><span class="ln">59 </span></a> <span
class="s1">app:layout_constraintStart_toStartOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="160"><span class="ln">60 </span></a> <span
class="s1">app:layout_constraintTop_toTopOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="161"><span class="ln">61 </span></a> <span
class="s1">app:layout_constraintVertical_bias</span><span
class="s2">=&quot;1.0&quot;</span><span class="s0">/&gt;</span>
<a name="162"><span class="ln">62 </span></a> <span
class="s0">&lt;/androidx.cardview.widget.CardView&gt;</span>
<a name="163"><span class="ln">63 </span></a>
<a name="164"><span class="ln">64 </span></a><span
class="s0">&lt;/androidx.constraintlayout.widget.ConstraintLayout&
gt;</span></pre>
</body>
</html>

```

c. Java

7. Detail Laporan

a. Desain

```

<html>
<head>
<title>activity_detail_laporan.xml</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-
8">
<style type="text/css">
.s0 { color: #e8bf6a;}
.s1 { color: #bababa;}
.s2 { color: #6a8759;}
.s3 { color: #a9b7c6;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">

```

```

<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
activity_detail_laporan.xml</font>
</center></td></tr></table>
<pre><a name="11"><span class="ln">1      </span></a><span
class="s0">&lt;?</span><span class="s1">xml version</span><span
class="s2">=&quot;1.0&quot;; </span><span
class="s1">encoding</span><span class="s2">=&quot;utf-
8&quot;;</span><span class="s0">?&gt;</span>
<a name="12"><span class="ln">2      </span></a><span
class="s0">&lt;LinearLayout </span><span
class="s1">xmlns:android</span><span
class="s2">=&quot;http://schemas.android.com/apk/res/android&quot;;
</span>
<a name="13"><span class="ln">3      </span></a>      <span
class="s1">xmlns:tools</span><span
class="s2">=&quot;http://schemas.android.com/tools&quot;;</span>
<a name="14"><span class="ln">4      </span></a>      <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="15"><span class="ln">5      </span></a>      <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="16"><span class="ln">6      </span></a>      <span
class="s1">android:background</span><span
class="s2">=&quot;@color/soft_green&quot;;</span></a>
<a name="17"><span class="ln">7      </span></a>      <span
class="s1">android:orientation</span><span
class="s2">=&quot;vertical&quot;;</span>
<a name="18"><span class="ln">8      </span></a>      <span
class="s1">android:padding</span><span
class="s2">=&quot;16dp&quot;;</span>
<a name="19"><span class="ln">9      </span></a>      <span
class="s1">tools:context</span><span
class="s2">=&quot;.view.detaillaporan.DetailLaporanActivity&quot;;<
/ span><span class="s0">&gt;</span>
<a name="110"><span class="ln">10     </span></a>
<a name="111"><span class="ln">11     </span></a>      <span
class="s0">&lt;LinearLayout</span>
<a name="112"><span class="ln">12     </span></a>      <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="113"><span class="ln">13     </span></a>      <span
class="s1">android:layout_height</span><span
class="s2">=&quot;300dp&quot;;</span>
<a name="114"><span class="ln">14     </span></a>      <span
class="s1">android:orientation</span><span
class="s2">=&quot;horizontal&quot;;</span>
<a name="115"><span class="ln">15     </span></a>      <span
class="s1">android:paddingVertical</span><span
class="s2">=&quot;20dp&quot;;</span><span class="s0">&gt;</span>
<a name="116"><span class="ln">16     </span></a>
<a name="117"><span class="ln">17     </span></a>      <span
class="s0">&lt;ImageView</span>
<a name="118"><span class="ln">18     </span></a>      <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/img_laporan1&quot;;</span>
<a name="119"><span class="ln">19     </span></a>      <span
class="s1">android:layout_width</span><span

```

```
class="s2">=&quot;0dp&quot;;</span>
<a name="120"><span class="ln">20 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="121"><span class="ln">21 </span></a> <span
class="s1">android:layout_weight</span><span
class="s2">=&quot;1&quot;;</span>
<a name="122"><span class="ln">22 </span></a> <span
class="s1">android:paddingHorizontal</span><span
class="s2">=&quot;5dp&quot;;</span>
<a name="123"><span class="ln">23 </span></a> <span
class="s1">tools:src</span><span
class="s2">=&quot;@mipmap/ic_launcher&quot;; </span><span
class="s0">/&gt;</span>
<a name="124"><span class="ln">24 </span></a>
<a name="125"><span class="ln">25 </span></a> <span
class="s0">&lt;ImageView</span>
<a name="126"><span class="ln">26 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/img_laporan2&quot;;</span>
<a name="127"><span class="ln">27 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;0dp&quot;;</span>
<a name="128"><span class="ln">28 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="129"><span class="ln">29 </span></a> <span
class="s1">android:layout_weight</span><span
class="s2">=&quot;1&quot;;</span>
<a name="130"><span class="ln">30 </span></a> <span
class="s1">android:paddingHorizontal</span><span
class="s2">=&quot;5dp&quot;;</span>
<a name="131"><span class="ln">31 </span></a> <span
class="s1">tools:src</span><span
class="s2">=&quot;@mipmap/ic_launcher&quot;; </span><span
class="s0">/&gt;</span>
<a name="132"><span class="ln">32 </span></a> <span
class="s0">&lt;/LinearLayout&gt;</span>
<a name="133"><span class="ln">33 </span></a>
<a name="134"><span class="ln">34 </span></a> <span
class="s0">&lt;com.google.android.material.textfield.TextInputLayo
ut</span>
<a name="135"><span class="ln">35 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/til_lokasi&quot;;</span>
<a name="136"><span class="ln">36 </span></a> <span
class="s1">style</span><span
class="s2">=&quot;@style/Widget.AppCompat.EditText&quot;;</span>
<a name="137"><span class="ln">37 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="138"><span class="ln">38 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;;</span>
<a name="139"><span class="ln">39 </span></a> <span
class="s1">android:layout_marginBottom</span><span
class="s2">=&quot;20dp&quot;;</span>
<a name="140"><span class="ln">40 </span></a> <span
class="s1">android:background</span><span
class="s2">=&quot;@drawable/rounded_edt&quot;;</span><span
class="s0">&gt;</span>
```

```

<a name="141"><span class="ln">41 </span></a>
<a name="142"><span class="ln">42 </span></a> <span
class="s0">&lt;com.google.android.material.textfield.TextInputEdit
Text</span>
<a name="143"><span class="ln">43 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/inputlokasi &quot;</span>
<a name="144"><span class="ln">44 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent &quot;</span>
<a name="145"><span class="ln">45 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent &quot;</span>
<a name="146"><span class="ln">46 </span></a> <span
class="s1">android:background</span><span
class="s2">=&quot;@color/transparent &quot;</span>
<a name="147"><span class="ln">47 </span></a> <span
class="s1">android:hint</span><span
class="s2">=&quot;Lokasi &quot;</span>
<a name="148"><span class="ln">48 </span></a> <span
class="s1">android:imeOptions</span><span
class="s2">=&quot;actionNext &quot;</span>
<a name="149"><span class="ln">49 </span></a> <span
class="s1">android:inputType</span><span
class="s2">=&quot;text &quot;</span>
<a name="150"><span class="ln">50 </span></a> <span
class="s1">android:maxLines</span><span
class="s2">=&quot;1&quot;</span>
<a name="151"><span class="ln">51 </span></a> <span
class="s1">android:nextFocusForward</span><span
class="s2">=&quot;@id/inputrtrt&quot;</span>
<a name="152"><span class="ln">52 </span></a> <span
class="s1">android:paddingVertical</span><span
class="s2">=&quot;5dp&quot;</span><span class="s0">/&gt;</span>
<a name="153"><span class="ln">53 </span></a>
<a name="154"><span class="ln">54 </span></a>
<a name="155"><span class="ln">55 </span></a> <span
class="s0">&lt;/com.google.android.material.textfield.TextInputLay
out&gt;</span>
<a name="156"><span class="ln">56 </span></a>
<a name="157"><span class="ln">57 </span></a> <span
class="s0">&lt;com.google.android.material.textfield.TextInputLayo
ut</span>
<a name="158"><span class="ln">58 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/til_laporanrt &quot;</span>
<a name="159"><span class="ln">59 </span></a> <span
class="s1">style</span><span
class="s2">=&quot;@style/Widget.AppCompat.EditText &quot;</span>
<a name="160"><span class="ln">60 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent &quot;</span>
<a name="161"><span class="ln">61 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content &quot;</span>
<a name="162"><span class="ln">62 </span></a> <span
class="s1">android:layout_marginBottom</span><span
class="s2">=&quot;20dp &quot;</span>
<a name="163"><span class="ln">63 </span></a> <span
class="s1">android:background</span><span
class="s2">=&quot;@drawable/rounded_edt &quot;</span><span

```



```

class="s0">&gt;</span>
<a name="164"><span class="ln">64 </span></a>
<a name="165"><span class="ln">65 </span></a> <span
class="s0">&lt;com.google.android.material.textfield.TextInputEdit
Text</span>
<a name="166"><span class="ln">66 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/inputrt &quot;</span>
<a name="167"><span class="ln">67 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent &quot;</span>
<a name="168"><span class="ln">68 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent &quot;</span>
<a name="169"><span class="ln">69 </span></a> <span
class="s1">android:background</span><span
class="s2">=&quot;@color/transparent &quot;</span>
<a name="170"><span class="ln">70 </span></a> <span
class="s1">android:hint</span><span
class="s2">=&quot;RT &quot;</span>
<a name="171"><span class="ln">71 </span></a> <span
class="s1">android:imeOptions</span><span
class="s2">=&quot;actionNext &quot;</span>
<a name="172"><span class="ln">72 </span></a> <span
class="s1">android:inputType</span><span
class="s2">=&quot;number &quot;</span>
<a name="173"><span class="ln">73 </span></a> <span
class="s1">android:maxLines</span><span
class="s2">=&quot;1 &quot;</span>
<a name="174"><span class="ln">74 </span></a> <span
class="s1">android:paddingVertical</span><span
class="s2">=&quot;5dp &quot;</span><span class="s0">/&gt;</span>
<a name="175"><span class="ln">75 </span></a>
<a name="176"><span class="ln">76 </span></a> <span
class="s0">&lt;/com.google.android.material.textfield.TextInputLay
out &gt;</span>
<a name="177"><span class="ln">77 </span></a>
<a name="178"><span class="ln">78 </span></a> <span
class="s0">&lt;LinearLayout</span>
<a name="179"><span class="ln">79 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent &quot;</span>
<a name="180"><span class="ln">80 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content &quot;</span><span
class="s0">&gt;</span>
<a name="181"><span class="ln">81 </span></a>
<a name="182"><span class="ln">82 </span></a> <span
class="s0">&lt;Button</span>
<a name="183"><span class="ln">83 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/btnLoc &quot;</span>
<a name="184"><span class="ln">84 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;0dp &quot;</span>
<a name="185"><span class="ln">85 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent &quot;</span>
<a name="186"><span class="ln">86 </span></a> <span
class="s1">android:layout_alignParentStart</span><span
class="s2">=&quot;true &quot;</span>

```

```

<a name="187"><span class="ln">87 </span></a> <span
class="s1">android:layout_weight</span><span
class="s2">=&quot;1&quot;</span>
<a name="188"><span class="ln">88 </span></a> <span
class="s1">android:text</span><span class="s2">=&quot;Lihat
Lokasi &quot;</span><span class="s0">/&gt;</span>
<a name="189"><span class="ln">89 </span></a>
<a name="190"><span class="ln">90 </span></a> <span
class="s0">&lt;Button</span>
<a name="191"><span class="ln">91 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/btnDirection&quot;</span>
<a name="192"><span class="ln">92 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;0dp&quot;</span>
<a name="193"><span class="ln">93 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent &quot;</span>
<a name="194"><span class="ln">94 </span></a> <span
class="s1">android:layout_alignParentStart</span><span
class="s2">=&quot;true &quot;</span>
<a name="195"><span class="ln">95 </span></a> <span
class="s1">android:layout_weight</span><span
class="s2">=&quot;1&quot;</span>
<a name="196"><span class="ln">96 </span></a> <span
class="s1">android:text</span><span class="s2">=&quot;Tunjukkan
Arah&quot;</span><span class="s0">/&gt;</span>
<a name="197"><span class="ln">97 </span></a>
<a name="198"><span class="ln">98 </span></a> <span
class="s0">&lt;Button</span>
<a name="199"><span class="ln">99 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/btn_proses&quot;</span>
<a name="1100"><span class="ln">100 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;0dp&quot;</span>
<a name="1101"><span class="ln">101 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent &quot;</span>
<a name="1102"><span class="ln">102 </span></a> <span
class="s1">android:layout_alignParentEnd</span><span
class="s2">=&quot;true &quot;</span>
<a name="1103"><span class="ln">103 </span></a> <span
class="s1">android:layout_weight</span><span
class="s2">=&quot;1&quot;</span>
<a name="1104"><span class="ln">104 </span></a> <span
class="s1">android:text</span><span class="s2">=&quot;proses &quot;</span>
</span><span class="s0">/&gt;</span>
<a name="1105"><span class="ln">105 </span></a>
<a name="1106"><span class="ln">106 </span></a> <span
class="s0">&lt;/LinearLayout &gt;</span>
<a name="1107"><span class="ln">107 </span></a>
<a name="1108"><span class="ln">108 </span></a>
<a name="1109"><span class="ln">109 </span></a><span
class="s0">&lt;/LinearLayout &gt;</span></pre>
</body>
</html>

```

b. Java

```

<html>
<head>

```

```

<title>DetailLaporanActivity.kt</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
.s0 { color: #cc7832;}
.s1 { color: #a9b7c6;}
.s2 { color: #6a8759;}
.s3 { color: #6897bb;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
DetailLaporanActivity.kt</font>
</center></td></tr></table>
<pre><a name="l1"><span class="ln">1    </span></a><span
class="s0">package </span><span
class="s1">stta.gabriel.ta_gabriel.view.detaillaporan</span>
<a name="l2"><span class="ln">2    </span></a></span>
<a name="l3"><span class="ln">3    </span></a><span
class="s1">import android.app.Activity</span>
<a name="l4"><span class="ln">4    </span></a><span
class="s1">import android.content.Intent</span>
<a name="l5"><span class="ln">5    </span></a><span
class="s1">import android.net.Uri</span>
<a name="l6"><span class="ln">6    </span></a><span
class="s1">import android.os.Bundle</span>
<a name="l7"><span class="ln">7    </span></a><span
class="s1">import android.util.Log</span>
<a name="l8"><span class="ln">8    </span></a><span
class="s1">import android.widget.Toast</span>
<a name="l9"><span class="ln">9    </span></a><span
class="s1">import androidx.appcompat.app.AppCompatActivity</span>
<a name="l10"><span class="ln">10   </span></a><span
class="s1">import
com.google.firebase.database.DatabaseReference</span>
<a name="l11"><span class="ln">11   </span></a><span
class="s1">import
com.google.firebase.database.FirebaseDatabase</span>
<a name="l12"><span class="ln">12   </span></a><span
class="s1">import
kotlinx.android.synthetic.main.activity_detail_laporan.*</span>
<a name="l13"><span class="ln">13   </span></a><span
class="s1">import org.jetbrains.anko.browse</span>
<a name="l14"><span class="ln">14   </span></a><span
class="s1">import org.jetbrains.anko.toast</span>
<a name="l15"><span class="ln">15   </span></a><span
class="s1">import stta.gabriel.ta_gabriel.R</span>
<a name="l16"><span class="ln">16   </span></a><span
class="s1">import stta.gabriel.ta_gabriel.model.ItemLaporan</span>
<a name="l17"><span class="ln">17   </span></a><span
class="s1">import stta.gabriel.ta_gabriel.model.Lokasi</span>
<a name="l18"><span class="ln">18   </span></a><span
class="s1">import stta.gabriel.ta_gabriel.util.*</span>
<a name="l19"><span class="ln">19   </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.camera.CameraActivity</span>
<a name="l20"><span class="ln">20   </span></a><span

```

```

class="s1">import
stta.gabriel.ta_gabriel.view.camera.CameraActivity.Companion.REQUE
ST_CODE_CAMERA</span>
<a name="121"><span class="ln">21 </span></a>
<a name="122"><span class="ln">22 </span></a><span
class="s0">class </span><span class="s1">DetailLaporanActivity :
AppCompatActivity() {</span>
<a name="123"><span class="ln">23 </span></a>
<a name="124"><span class="ln">24 </span></a> <span
class="s1">private </span><span class="s0">val </span><span
class="s1">item by lazy {
intent.getParcelableExtra(KEY_DATA_LAPORAN) </span><span
class="s0">as </span><span class="s1">ItemLaporan }</span>
<a name="125"><span class="ln">25 </span></a> <span
class="s1">private </span><span class="s0">val </span><span
class="s1">isDone by lazy {
intent.getBooleanExtra(IS_DONE</span><span class="s0">,
true</span><span class="s1">)}</span>
<a name="126"><span class="ln">26 </span></a> <span
class="s1">private </span><span class="s0">val </span><span
class="s1">isProgress by lazy {
intent.getBooleanExtra(IS_PROGRESS</span><span class="s0">,
true</span><span class="s1">)}</span>
<a name="127"><span class="ln">27 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">laporan: DatabaseReference</span>
<a name="128"><span class="ln">28 </span></a>
<a name="129"><span class="ln">29 </span></a>
<a name="130"><span class="ln">30 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onCreate(savedInstanceState: Bundle?) {</span>
<a name="131"><span class="ln">31 </span></a> <span
class="s0">super</span><span
class="s1">.onCreate(savedInstanceState)</span>
<a name="132"><span class="ln">32 </span></a> <span
class="s1">setContentView(R.layout.activity_detail_laporan)</span>
<a name="133"><span class="ln">33 </span></a> <span
class="s1">setData (</span>
<a name="134"><span class="ln">34 </span></a> <span
class="s1">item.foto1</span><span class="s0">,</span>
<a name="135"><span class="ln">35 </span></a> <span
class="s1">item.foto2</span><span class="s0">,</span>
<a name="136"><span class="ln">36 </span></a> <span
class="s2">&quot;</span><span class="s0">${</span><span
class="s1">item.lokasi.lat</span><span class="s0">} </span><span
class="s2">- </span><span class="s0">${</span><span
class="s1">item.lokasi.long</span><span class="s0">}</span><span
class="s2">&quot;</span><span class="s0">,</span>
<a name="137"><span class="ln">37 </span></a> <span
class="s1">item.pelapor</span>
<a name="138"><span class="ln">38 </span></a> <span
class="s1">)</span>
<a name="139"><span class="ln">39 </span></a> <span
class="s1">img_laporan2.setGone()</span>
<a name="140"><span class="ln">40 </span></a> <span
class="s0">if </span><span class="s1">(isProgress) {</span>
<a name="141"><span class="ln">41 </span></a> <span
class="s1">btn_proses.text = </span><span class="s2">&quot;AMBIL
FOTO SELESAI &quot;</span>
<a name="142"><span class="ln">42 </span></a> <span
class="s1">} </span><span class="s0">else if </span><span

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```

class="s1">(isDone) {</span>
<a name="143"><span class="ln">43 </span></a> <span
class="s1">img_laporan2.setVisible()</span>
<a name="144"><span class="ln">44 </span></a> <span
class="s1">btn_proses.setInvisible()</span>
<a name="145"><span class="ln">45 </span></a> <span
class="s1">}</span>
<a name="146"><span class="ln">46 </span></a>
<a name="147"><span class="ln">47 </span></a> <span
class="s1">laporan = FirebaseDatabase</span>
<a name="148"><span class="ln">48 </span></a> <span
class="s1">.getInstance()</span>
<a name="149"><span class="ln">49 </span></a> <span
class="s1">.reference</span>
<a name="150"><span class="ln">50 </span></a> <span
class="s1">.child(TABLE_LAPORAN)</span>
<a name="151"><span class="ln">51 </span></a> <span
class="s1">.child(item.head.toString())</span>
<a name="152"><span class="ln">52 </span></a>
<a name="153"><span class="ln">53 </span></a> <span
class="s1">Log.d(</span><span
class="s2">&quot;itemLaporan&quot;</span><span class="s0">,
</span><span class="s1">item.toString())</span>
<a name="154"><span class="ln">54 </span></a> <span
class="s1">laporan.keepSynced(</span><span
class="s0">>true</span><span class="s1">)</span>
<a name="155"><span class="ln">55 </span></a> <span
class="s1">}</span>
<a name="156"><span class="ln">56 </span></a>
<a name="157"><span class="ln">57 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">setData(foto1: String</span><span class="s0">,
</span><span class="s1">foto2: String</span><span class="s0">,
</span><span class="s1">lokasi: String</span><span class="s0">,
</span><span class="s1">pelapor: String)</span> {</span>
<a name="158"><span class="ln">58 </span></a> <span
class="s1">img_laporan1.loadSquareImageFromUrl(foto1)</span>
<a name="159"><span class="ln">59 </span></a> <span
class="s1">img_laporan2.loadSquareImageFromUrl(foto2)</span>
<a name="160"><span class="ln">60 </span></a> <span
class="s1">inputlokasi.setText(lokasi)</span>
<a name="161"><span class="ln">61 </span></a> <span
class="s1">inputrt.setText(pelapor)</span>
<a name="162"><span class="ln">62 </span></a> <span
class="s1">btn_proses.setOnClickListener {</span>
<a name="163"><span class="ln">63 </span></a> <span
class="s0">if </span><span class="s1">(isProgress)
toCamera()</span>
<a name="164"><span class="ln">64 </span></a> <span
class="s0">else </span><span class="s1">{</span>
<a name="165"><span class="ln">65 </span></a>
<span class="s1">item.status = </span><span class="s3">2</span></span>
<a name="166"><span class="ln">66 </span></a>
<span class="s1">item.tanggal_proses = getCurrentTime()</span>
<a name="167"><span class="ln">67 </span></a>
<span class="s1">laporan.setValue(item).addOnSuccessListener
{</span>
<a name="168"><span class="ln">68 </span></a>
<span class="s1">Toast.makeText(</span><span class="s0">this,
</span><span class="s2">&quot;Berhasil diubah&quot;</span><span
class="s0">,</span> </span><span

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class="s1">Toast.LENGTH_SHORT).show()</span>
<a name="169"><span class="ln">69 </span></a>
<span class="s1"></span>
<a name="170"><span class="ln">70 </span></a>
<span class="s1">.addOnCompleteListener { </span><span
class="s0">this</span><span class="s1">.finish() }</span>
<a name="171"><span class="ln">71 </span></a> <span
class="s1"></span>
<a name="172"><span class="ln">72 </span></a> <span
class="s1"></span>
<a name="173"><span class="ln">73 </span></a>
<a name="174"><span class="ln">74 </span></a> <span
class="s0">if </span><span class="s1">(item.lokasi.lat ==
</span><span class="s3">0.0 </span><span class="s1">||
item.lokasi.long == </span><span class="s3">0.0</span><span
class="s1">) {</span>
<a name="175"><span class="ln">75 </span></a> <span
class="s1">btnLoc.setInvisible()</span>
<a name="176"><span class="ln">76 </span></a> <span
class="s1">btnDirection.setInvisible()</span>
<a name="177"><span class="ln">77 </span></a> <span
class="s1"></span>
<a name="178"><span class="ln">78 </span></a>
<a name="179"><span class="ln">79 </span></a> <span
class="s1">btnLoc.setOnClickListener {</span>
<a name="180"><span class="ln">80 </span></a> <span
class="s0">val </span><span class="s1">gmmIntentUri =</span>
<a name="181"><span class="ln">81 </span></a>
<span class="s1">Uri.parse(</span><span
class="s2">"&quot;google.streetview:cbll=</span><span
class="s0">${</span><span class="s1">item.lokasi.lat</span><span
class="s0">}</span><span class="s2">,</span><span
class="s0">${</span><span class="s1">item.lokasi.long</span><span
class="s0">}</span><span class="s2">"&quot;</span><span
class="s1">)</span>
<a name="182"><span class="ln">82 </span></a> <span
class="s0">val </span><span class="s1">mapIntent =
Intent(Intent.ACTION_VIEW</span><span class="s0">,</span><span
class="s1">gmmIntentUri)</span>
<a name="183"><span class="ln">83 </span></a> <span
class="s1">startActivity(mapIntent)</span>
<a name="184"><span class="ln">84 </span></a> <span
class="s1"></span>
<a name="185"><span class="ln">85 </span></a>
<a name="186"><span class="ln">86 </span></a> <span
class="s1">btnDirection.setOnClickListener {</span>
<a name="187"><span class="ln">87 </span></a> <span
class="s1">intentLoc(item.lokasi</span><span class="s0">,</span>
</span><span class="s1">item.pelapor)</span>
<a name="188"><span class="ln">88 </span></a> <span
class="s1"></span>
<a name="189"><span class="ln">89 </span></a> <span
class="s1"></span>
<a name="190"><span class="ln">90 </span></a>
<a name="191"><span class="ln">91 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">intentLoc(loc: Lokasi</span><span class="s0">,</span>
</span><span class="s1">pelapor: String) {</span>
<a name="192"><span class="ln">92 </span></a>
<a name="193"><span class="ln">93 </span></a> <span
class="s0">if </span><span class="s1">(loc.lat != </span><span

```

```

class="s3">0.0 </span><span class="s1">|| loc.long != </span><span
class="s3">0.0</span><span class="s1">)</span> {</span>
<a name="194"><span class="ln">94 </span></a> <span
class="s0">val </span><span class="s1">uri =
URI_MAPS (loc.lat</span><span class="s0">, </span><span
class="s1">loc.long</span><span class="s0">, </span><span
class="s1">pelapor)</span>
<a name="195"><span class="ln">95 </span></a> <span
class="s1">browse(uri)</span>
<a name="196"><span class="ln">96 </span></a> <span
class="s1">} </span><span class="s0">else </span><span
class="s1">toast(</span><span class="s2">&quot;Lokasi belum diset
oleh penjual &quot;</span><span class="s1"></span>
<a name="197"><span class="ln">97 </span></a> <span
class="s1">}</span>
<a name="198"><span class="ln">98 </span></a>
<a name="199"><span class="ln">99 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">toCamera() {</span>
<a name="1100"><span class="ln">100 </span></a> <span
class="s1">CameraActivity.start(</span><span
class="s0">this</span><span class="s1"></span>
<a name="1101"><span class="ln">101 </span></a> <span
class="s1">}</span>
<a name="1102"><span class="ln">102 </span></a>
<a name="1103"><span class="ln">103 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onActivityResult(requestCode: Int</span><span
class="s0">, </span><span class="s1">resultCode: Int</span><span
class="s0">, </span><span class="s1">data: Intent?) {</span>
<a name="1104"><span class="ln">104 </span></a> <span
class="s0">super</span><span
class="s1">.onActivityResult(requestCode</span><span class="s0">,
</span><span class="s1">resultCode</span><span class="s0">,
</span><span class="s1">data)</span>
<a name="1105"><span class="ln">105 </span></a> <span
class="s0">if </span><span class="s1">(requestCode ==
REQUEST_CODE_CAMERA && resultCode == Activity.RESULT_OK)
{</span>
<a name="1106"><span class="ln">106 </span></a> <span
class="s0">val </span><span class="s1">urlImg =
data?.getStringExtra(CameraActivity.EXTRA_IMG_URL).default()</span>
<a name="1107"><span class="ln">107 </span></a> <span
class="s1">Log.d(</span><span class="s2">&quot;cameraImage &quot;</span><span class="s0">,
</span><span class="s1">urlImg)</span>
<a name="1108"><span class="ln">108 </span></a> <span
class="s1">item.status = </span><span class="s3">3</span>
<a name="1109"><span class="ln">109 </span></a> <span
class="s1">item.foto2 = urlImg</span>
<a name="1110"><span class="ln">110 </span></a> <span
class="s1">item.tanggal_selesai = getCurrentTime()</span>
<a name="1111"><span class="ln">111 </span></a> <span
class="s1">laporan.setValue(item).addOnSuccessListener {</span>
<a name="1112"><span class="ln">112 </span></a>
<span class="s1">Toast.makeText(</span><span class="s0">this,
</span><span class="s2">&quot;Berhasil diupload&quot;</span><span
class="s0">, </span><span
class="s1">Toast.LENGTH_SHORT).show()</span>
<a name="1113"><span class="ln">113 </span></a> <span

```

```

class="s1">}</span>
<a name="l114"><span class="ln">114 </span></a>
<span class="s1">.addOnCompleteListener { </span><span
class="s0">this</span><span class="s1">.finish() }</span>
<a name="l115"><span class="ln">115 </span></a> <span
class="s1">}</span>
<a name="l116"><span class="ln">116 </span></a> <span
class="s1">}</span>
<a name="l117"><span class="ln">117 </span></a>
<a name="l118"><span class="ln">118 </span></a> <span
class="s1">companion </span><span class="s0">object </span><span
class="s1">{</span>
<a name="l119"><span class="ln">119 </span></a> <span
class="s1">const </span><span class="s0">val </span><span
class="s1">KEY_DATA_LAPORAN = </span><span
class="s2">&quot;KEY_DATA_LAPORAN&quot;</span>
<a name="l120"><span class="ln">120 </span></a> <span
class="s1">const </span><span class="s0">val </span><span
class="s1">IS_PROGRESS = </span><span
class="s2">&quot;IS_PROGRESS&quot;</span>
<a name="l121"><span class="ln">121 </span></a> <span
class="s1">const </span><span class="s0">val </span><span
class="s1">IS_DONE = </span><span
class="s2">&quot;IS_DONE&quot;</span>
<a name="l122"><span class="ln">122 </span></a> <span
class="s0">fun </span><span class="s1">startDetail(intent:
Intent</span><span class="s0">, </span><span class="s1">
class="s1">itemLaporan: ItemLaporan</span><span class="s0">,
</span><span class="s1">status: Int): Intent {</span>
<a name="l123"><span class="ln">123 </span></a> <span
class="s1">intent.putExtra(KEY_DATA_LAPORAN</span><span
class="s0">, </span><span class="s1">itemLaporan)</span>
<a name="l124"><span class="ln">124 </span></a> <span
class="s1">intent.putExtra(IS_PROGRESS</span><span class="s0">,
</span><span class="s1">status == ID_PROGRESS)</span>
<a name="l125"><span class="ln">125 </span></a> <span
class="s1">intent.putExtra(IS_DONE</span><span class="s0">,
</span><span class="s1">status == ID_DONE)</span>
<a name="l126"><span class="ln">126 </span></a> <span
class="s0">return </span><span class="s1">intent</span>
<a name="l127"><span class="ln">127 </span></a> <span
class="s1">}</span>
<a name="l128"><span class="ln">128 </span></a> <span
class="s1">}</span>
<a name="l129"><span class="ln">129 </span></a><span
class="s1">}</span>
<a name="l130"><span class="ln">130 </span></a></pre>
</body>
</html>

```

8. camera

a. Desain

```

<html>
<head>
<title>activity_camera.xml</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-
8">
<style type="text/css">
.s0 { color: #e8bf6a;}
.s1 { color: #bababa;}

```



```

.s2 { color: #6a8759;}
.s3 { color: #a9b7c6;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
activity_camera.xml</font>
</center></td></tr></table>
<pre><a name="l1"><span class="ln">1    </span></a><span
class="s0">&lt;?</span><span class="s1">xml version</span><span
class="s2">=&quot;1.0&quot;; </span><span
class="s1">encoding</span><span class="s2">=&quot;utf-
8&quot;;</span><span class="s0">?&gt;</span>
<a name="l2"><span class="ln">2    </span></a><span
class="s0">&lt;androidx.constraintlayout.widget.ConstraintLayout
</span><span class="s1">xmlns:android</span><span
class="s2">=&quot;http://schemas.android.com/apk/res/android&quot;;
</span>
<a name="l3"><span class="ln">3    </span></a>    <span
class="s1">xmlns:app</span><span
class="s2">=&quot;http://schemas.android.com/apk/res-
auto&quot;;</span>
<a name="l4"><span class="ln">4    </span></a>    <span
class="s1">xmlns:tools</span><span
class="s2">=&quot;http://schemas.android.com/tools&quot;;</span>
<a name="l5"><span class="ln">5    </span></a>    <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="l6"><span class="ln">6    </span></a>    <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;;</span>
<a name="l7"><span class="ln">7    </span></a>    <span
class="s1">tools:context</span><span
class="s2">=&quot;.view.camera.CameraActivity&quot;;</span><span
class="s0">&gt;</span>
<a name="l8"><span class="ln">8    </span></a>
<a name="l9"><span class="ln">9    </span></a>    <span
class="s0">&lt;Button</span>
<a name="l10"><span class="ln">10   </span></a>    <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/camera_capture_button&quot;;</span>
<a name="l11"><span class="ln">11   </span></a>    <span
class="s1">android:layout_width</span><span
class="s2">=&quot;100dp&quot;;</span>
<a name="l12"><span class="ln">12   </span></a>    <span
class="s1">android:layout_height</span><span
class="s2">=&quot;100dp&quot;;</span>
<a name="l13"><span class="ln">13   </span></a>    <span
class="s1">android:layout_marginBottom</span><span
class="s2">=&quot;50dp&quot;;</span>
<a name="l14"><span class="ln">14   </span></a>    <span
class="s1">android:elevation</span><span
class="s2">=&quot;2dp&quot;;</span>
<a name="l15"><span class="ln">15   </span></a>    <span
class="s1">android:scaleType</span><span
class="s2">=&quot;fitCenter&quot;;</span>
<a name="l16"><span class="ln">16   </span></a>    <span

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class="s1">android:text</span><span class="s2">=&quot; Take
Photo&quot;</span>
<a name="117"><span class="ln">17 </span></a> <span
class="s1">app:layout_constraintBottom_toBottomOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="118"><span class="ln">18 </span></a> <span
class="s1">app:layout_constraintLeft_toLeftOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="119"><span class="ln">19 </span></a> <span
class="s1">app:layout_constraintRight_toRightOf</span><span
class="s2">=&quot;parent&quot;</span><span
class="s0">/&gt;</span>
<a name="120"><span class="ln">20 </span></a>
<a name="121"><span class="ln">21 </span></a> <span
class="s0">&lt;androidx.camera.view.PreviewView</span>
<a name="122"><span class="ln">22 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/viewFinder&quot;</span>
<a name="123"><span class="ln">23 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="124"><span class="ln">24 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span><span
class="s0">/&gt;</span>
<a name="125"><span class="ln">25 </span></a>
<a name="126"><span class="ln">26 </span></a> <span
class="s0">&lt;ImageView</span>
<a name="127"><span class="ln">27 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/imgPreview&quot;</span>
<a name="128"><span class="ln">28 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="129"><span class="ln">29 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="130"><span class="ln">30 </span></a> <span
class="s1">android:visibility</span><span
class="s2">=&quot;gone&quot;</span>
<a name="131"><span class="ln">31 </span></a> <span
class="s1">tools:src</span><span
class="s2">=&quot;@mipmap/ic_launcher&quot;</span>
<a name="132"><span class="ln">32 </span></a> <span
class="s1">tools:visibility</span><span
class="s2">=&quot;visible&quot;</span><span
class="s0">/&gt;</span>
<a name="133"><span class="ln">33 </span></a>
<a name="134"><span class="ln">34 </span></a> <span
class="s0">&lt;Button</span>
<a name="135"><span class="ln">35 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/btnSubmit&quot;</span>
<a name="136"><span class="ln">36 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="137"><span class="ln">37 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="138"><span class="ln">38 </span></a> <span
class="s1">android:layout_marginBottom</span><span

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class="s2">=&quot;50dp&quot;</span>
<a name="139"><span class="ln">39 </span></a> <span
class="s1">android:text</span><span
class="s2">=&quot;Submit&quot;</span>
<a name="140"><span class="ln">40 </span></a> <span
class="s1">android:visibility</span><span
class="s2">=&quot;gone&quot;</span>
<a name="141"><span class="ln">41 </span></a> <span
class="s1">app:layout_constraintBottom_toBottomOf</span><span
class="s2">=&quot;parent&quot;</span>
<a name="142"><span class="ln">42 </span></a> <span
class="s1">tools:visibility</span><span><span
class="s2">=&quot;visible&quot;</span></span><span
class="s0">/&gt;</span>
<a name="143"><span class="ln">43 </span></a>
<a name="144"><span class="ln">44 </span></a> <span
class="s0">&lt;ProgressBar</span>
<a name="145"><span class="ln">45 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/progressBar&quot;</span>
<a name="146"><span class="ln">46 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="147"><span class="ln">47 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="148"><span class="ln">48 </span></a> <span
class="s1">android:elevation</span><span><span
class="s2">=&quot;300dp&quot;</span></span>
<a name="149"><span class="ln">49 </span></a> <span
class="s1">android:visibility</span><span><span
class="s2">=&quot;gone&quot;</span></span>
<a name="150"><span class="ln">50 </span></a> <span
class="s1">app:layout_constraintBottom_toBottomOf</span><span><span
class="s2">=&quot;@id/btnSubmit&quot;</span></span>
<a name="151"><span class="ln">51 </span></a> <span
class="s1">app:layout_constraintEnd_toEndOf</span><span><span
class="s2">=&quot;@id/btnSubmit&quot;</span></span>
<a name="152"><span class="ln">52 </span></a> <span
class="s1">app:layout_constraintStart_toStartOf</span><span><span
class="s2">=&quot;@id/btnSubmit&quot;</span></span>
<a name="153"><span class="ln">53 </span></a> <span
class="s1">app:layout_constraintTop_toTopOf</span><span><span
class="s2">=&quot;@id/btnSubmit&quot;</span></span><span
class="s0">/&gt;</span>
<a name="154"><span class="ln">54 </span></a>
<a name="155"><span class="ln">55 </span></a> <span
class="s0">&lt;FrameLayout</span>
<a name="156"><span class="ln">56 </span></a> <span
class="s1">android:id</span><span><span
class="s2">=&quot;@+id/imgHint&quot;</span></span>
<a name="157"><span class="ln">57 </span></a> <span
class="s1">android:layout_width</span><span><span
class="s2">=&quot;match_parent&quot;</span></span>
<a name="158"><span class="ln">58 </span></a> <span
class="s1">android:layout_height</span><span><span
class="s2">=&quot;wrap_content&quot;</span></span>
<a name="159"><span class="ln">59 </span></a> <span
class="s1">android:background</span><span><span
class="s2">=&quot;#C3000000&quot;</span></span>
<a name="160"><span class="ln">60 </span></a> <span

```

```

class="s1">android:visibility</span><span
class="s2">=&quot;gone&quot;</span>
<a name="161"><span class="ln">61 </span></a> <span
class="s1">app:layout_constraintBottom_toTopOf</span><span
class="s2">=&quot;@id/btnSubmit&quot;</span>
<a name="162"><span class="ln">62 </span></a> <span
class="s1">tools:visibility</span><span
class="s2">=&quot;visible&quot;</span><span class="s0">&gt;</span>
<a name="163"><span class="ln">63 </span></a>
<a name="164"><span class="ln">64 </span></a> <span
class="s0">&lt;TextView</span>
<a name="165"><span class="ln">65 </span></a> <span
class="s1">android:id</span><span
class="s2">=&quot;@+id/textHint&quot;</span>
<a name="166"><span class="ln">66 </span></a> <span
class="s1">android:layout_width</span><span
class="s2">=&quot;match_parent&quot;</span>
<a name="167"><span class="ln">67 </span></a> <span
class="s1">android:layout_height</span><span
class="s2">=&quot;wrap_content&quot;</span>
<a name="168"><span class="ln">68 </span></a> <span
class="s1">android:text</span><span class="s2">=&quot;tekan gambar
untuk mengulang&quot;</span>
<a name="169"><span class="ln">69 </span></a> <span
class="s1">android:textAlignment</span><span
class="s2">=&quot;center&quot;</span>
<a name="170"><span class="ln">70 </span></a> <span
class="s1">android:textColor</span><span
class="s2">=&quot;@android:color/white&quot;</span><span
class="s0">&/&gt;</span>
<a name="171"><span class="ln">71 </span></a> <span
class="s0">&lt;/FrameLayout&gt;</span>
<a name="172"><span class="ln">72 </span></a>
<a name="173"><span class="ln">73 </span></a><span
class="s0">&lt;/androidx.constraintlayout.widget.ConstraintLayout&
&gt;</span></pre>
</body>
</html>

```

b. Code

```

<html>
<head>
<title>CameraActivity.kt</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<style type="text/css">
.s0 { color: #cc7832;}
.s1 { color: #a9b7c6;}
.s2 { color: #808080;}
.s3 { color: #6a8759;}
.s4 { color: #6897bb;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
CameraActivity.kt</font>
</center></td></tr></table>

```

```

<pre><a name="l1"><span class="ln">1    </span></a><span
class="s0">package </span><span
class="s1">stta.gabriel.ta_gabriel.view.camera</span>
<a name="l2"><span class="ln">2    </span></a><span
class="s1"></span></a>
<a name="l3"><span class="ln">3    </span></a><span
class="s1">import android.Manifest</span>
<a name="l4"><span class="ln">4    </span></a><span
class="s1">import android.app.Activity</span>
<a name="l5"><span class="ln">5    </span></a><span
class="s1">import android.content.Intent</span>
<a name="l6"><span class="ln">6    </span></a><span
class="s1">import android.content.pm.PackageManager</span>
<a name="l7"><span class="ln">7    </span></a><span
class="s1">import android.net.Uri</span>
<a name="l8"><span class="ln">8    </span></a><span
class="s1">import android.os.Bundle</span>
<a name="l9"><span class="ln">9    </span></a><span
class="s1">import android.util.Log</span>
<a name="l10"><span class="ln">10   </span></a><span
class="s1">import android.widget.Toast</span>
<a name="l11"><span class="ln">11   </span></a><span
class="s1">import androidx.appcompat.app.AppCompatActivity</span>
<a name="l12"><span class="ln">12   </span></a><span
class="s1">import androidx.camera.core.*</span>
<a name="l13"><span class="ln">13   </span></a><span
class="s1">import
androidx.camera.lifecycle.ProcessCameraProvider</span>
<a name="l14"><span class="ln">14   </span></a><span
class="s1">import androidx.core.app.ActivityCompat</span>
<a name="l15"><span class="ln">15   </span></a><span
class="s1">import androidx.core.content.ContextCompat</span>
<a name="l16"><span class="ln">16   </span></a><span
class="s1">import com.google.gson.Gson</span>
<a name="l17"><span class="ln">17   </span></a><span
class="s1">import
kotlinx.android.synthetic.main.activity_camera.*</span>
<a name="l18"><span class="ln">18   </span></a><span
class="s1">import stta.gabriel.ta_gabriel.R</span>
<a name="l19"><span class="ln">19   </span></a><span
class="s1">import stta.gabriel.ta_gabriel.model.Akun</span>
<a name="l20"><span class="ln">20   </span></a><span
class="s1">import stta.gabriel.ta_gabriel.util.*</span>
<a name="l21"><span class="ln">21   </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.detaillaporan.DetailLaporanActivity</span>
<a name="l22"><span class="ln">22   </span></a><span
class="s1">import java.io.File</span>
<a name="l23"><span class="ln">23   </span></a><span
class="s1">import java.nio.ByteBuffer</span>
<a name="l24"><span class="ln">24   </span></a><span
class="s1">import java.text.SimpleDateFormat</span>
<a name="l25"><span class="ln">25   </span></a><span
class="s1">import java.util.*</span>
<a name="l26"><span class="ln">26   </span></a><span
class="s1">import java.util.concurrent.ExecutorService</span>
<a name="l27"><span class="ln">27   </span></a><span
class="s1">import java.util.concurrent.Executors</span>
<a name="l28"><span class="ln">28   </span></a><span
class="s1"></span></a>
<a name="l29"><span class="ln">29   </span></a><span
class="s0">typealias </span><span class="s1">LumaListener = (luma:

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Double) -&gt; Unit</span>
<a name="130"><span class="ln">30 </span></a>
<a name="131"><span class="ln">31 </span></a><span
class="s0"></span><span class="s1">CameraActivity :
AppCompatActivity()</span><span class="s0">, </span><span
class="s1">UploadImage.CallbackUploadImageUrl {</span>
<a name="132"><span class="ln">32 </span></a> <span
class="s1">private </span><span class="s0">var </span><span
class="s1">preview: Preview? = </span><span class="s0">null</span>
<a name="133"><span class="ln">33 </span></a> <span
class="s1">private </span><span class="s0">var </span><span><span
class="s1">imageCapture: ImageCapture? = </span><span><span
class="s0">null</span>
<a name="134"><span class="ln">34 </span></a> <span
class="s1">private </span><span class="s0">var </span><span><span
class="s1">imageAnalyzer: ImageAnalysis? = </span><span><span
class="s0">null</span>
<a name="135"><span class="ln">35 </span></a> <span
class="s1">private </span><span class="s0">var </span><span><span
class="s1">camera: Camera? = </span><span class="s0">null</span>
<a name="136"><span class="ln">36 </span></a>
<a name="137"><span class="ln">37 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">outputDirectory: File</span>
<a name="138"><span class="ln">38 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">cameraExecutor: ExecutorService</span>
<a name="139"><span class="ln">39 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">prefs: SharedPreferences</span>
<a name="140"><span class="ln">40 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">akun: Akun</span>
<a name="141"><span class="ln">41 </span></a>
<a name="142"><span class="ln">42 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span><span
class="s1">onCreate(savedInstanceState: Bundle?) {</span>
<a name="143"><span class="ln">43 </span></a> <span
class="s0">super</span><span><span
class="s1">.onCreate(savedInstanceState) </span>
<a name="144"><span class="ln">44 </span></a> <span
class="s1">setContentView(R.layout.activity_camera)</span>
<a name="145"><span class="ln">45 </span></a> <span
class="s1">prefs = SharedPreferences(</span><span><span
class="s0">this</span><span class="s1">)</span>
<a name="146"><span class="ln">46 </span></a> <span
class="s1">akun =
Gson().fromJson(prefs.getString(USER_VALUE)</span><span><span
class="s0">, </span><span class="s1">Akun::</span><span><span
class="s0">class</span><span class="s1">.java)</span>
<a name="147"><span class="ln">47 </span></a>
<a name="148"><span class="ln">48 </span></a> <span
class="s2">// Request camera permissions</span>
<a name="149"><span class="ln">49 </span></a> <span
class="s0">if </span><span class="s1">(allPermissionsGranted()
{</span>
<a name="150"><span class="ln">50 </span></a> <span
class="s1">startCamera() </span>
<a name="151"><span class="ln">51 </span></a> <span
class="s1">} </span><span class="s0">else </span><span><span
class="s1">{</span>

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<a name="152"><span class="ln">52 </span></a> <span
class="s1">ActivityCompat.requestPermissions (</span>
<a name="153"><span class="ln">53 </span></a>
<span class="s0">this, </span><span
class="s1">REQUIRED_PERMISSIONS</span><span class="s0">,
</span><span class="s1">REQUEST_CODE_PERMISSIONS</span>
<a name="154"><span class="ln">54 </span></a> <span
class="s1">)</span>
<a name="155"><span class="ln">55 </span></a> <span
class="s1">}</span>
<a name="156"><span class="ln">56 </span></a>
<a name="157"><span class="ln">57 </span></a> <span
class="s2">// Setup the listener for take photo button</span>
<a name="158"><span class="ln">58 </span></a> <span
class="s1">camera_capture_button.setOnClickListener { takePhoto()
}</span>
<a name="159"><span class="ln">59 </span></a>
<a name="160"><span class="ln">60 </span></a> <span
class="s1">outputDirectory = getOutputDirectory(</span>
<a name="161"><span class="ln">61 </span></a>
<a name="162"><span class="ln">62 </span></a> <span
class="s1">cameraExecutor =
Executors.newSingleThreadExecutor(</span>
<a name="163"><span class="ln">63 </span></a> <span
class="s1">}</span>
<a name="164"><span class="ln">64 </span></a>
<a name="165"><span class="ln">65 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">startCamera () {</span>
<a name="166"><span class="ln">66 </span></a> <span
class="s0">val </span><span class="s1">cameraProviderFuture =
ProcessCameraProvider.getInstance(</span><span
class="s0">this</span><span class="s1">)</span>
<a name="167"><span class="ln">67 </span></a>
<a name="168"><span class="ln">68 </span></a> <span
class="s1">cameraProviderFuture.addListener(Runnable {</span>
<a name="169"><span class="ln">69 </span></a> <span
class="s2">// Used to bind the lifecycle of cameras to the
lifecycle owner</span>
<a name="170"><span class="ln">70 </span></a> <span
class="s0">val </span><span class="s1">cameraProvider:
ProcessCameraProvider = cameraProviderFuture.get (</span>
<a name="171"><span class="ln">71 </span></a>
<a name="172"><span class="ln">72 </span></a> <span
class="s2">// Preview</span>
<a name="173"><span class="ln">73 </span></a> <span
class="s1">preview = Preview.Builder (</span>
<a name="174"><span class="ln">74 </span></a>
<span class="s1">).build(</span>
<a name="175"><span class="ln">75 </span></a>
<a name="176"><span class="ln">76 </span></a> <span
class="s1">imageCapture = ImageCapture.Builder (</span>
<a name="177"><span class="ln">77 </span></a>
<span class="s1">).build(</span>
<a name="178"><span class="ln">78 </span></a>
<a name="179"><span class="ln">79 </span></a> <span
class="s1">imageAnalyzer = ImageAnalysis.Builder (</span>
<a name="180"><span class="ln">80 </span></a>
<span class="s1">).build(</span>
<a name="181"><span class="ln">81 </span></a>
<span class="s1">).also {</span>

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<a name="182"><span class="ln">82 </span></a>
<span class="s1">it.setAnalyzer(cameraExecutor</span><span
class="s0">, </span><span class="s1">LuminosityAnalyzer { luma -
&gt;</span>
<a name="183"><span class="ln">83 </span></a><span class="s2">//
Log.d(TAG, &quot;Average luminosity: $luma&quot;)</span>
<a name="184"><span class="ln">84 </span></a>
<span class="s1">}}</span>
<a name="185"><span class="ln">85 </span></a>
<span class="s1">}</span>
<a name="186"><span class="ln">86 </span></a>
<a name="187"><span class="ln">87 </span></a> <span
class="s2">// Select back camera</span>
<a name="188"><span class="ln">88 </span></a> <span
class="s0">val </span><span class="s1">cameraSelector =</span>
<a name="189"><span class="ln">89 </span></a>
<span
class="s1">CameraSelector.Builder().requireLensFacing(CameraSelect
or.LENS_FACING_BACK).build()</span>
<a name="190"><span class="ln">90 </span></a>
<a name="191"><span class="ln">91 </span></a> <span
class="s0">try </span><span class="s1">{</span>
<a name="192"><span class="ln">92 </span></a>
<span class="s2">// Unbind use cases before rebinding</span>
<a name="193"><span class="ln">93 </span></a>
<span class="s1">cameraProvider.unbindAll()</span>
<a name="194"><span class="ln">94 </span></a>
<a name="195"><span class="ln">95 </span></a>
<span class="s2">// Bind use cases to camera</span>
<a name="196"><span class="ln">96 </span></a>
<span class="s1">camera = cameraProvider.bindToLifecycle(</span>
<a name="197"><span class="ln">97 </span></a>
<span class="s0">this, </span><span
class="s1">cameraSelector</span><span class="s0">, </span><span
class="s1">preview</span><span class="s0">, </span><span
class="s1">imageCapture</span><span class="s0">, </span><span
class="s1">imageAnalyzer</span>
<a name="198"><span class="ln">98 </span></a>
<span class="s1">}</span>
<a name="199"><span class="ln">99 </span></a>
<a name="1100"><span class="ln">100 </span></a>
<span
class="s1">preview?.setSurfaceProvider(viewFinder.createSurfacePro
vider(camera?.cameraInfo))</span>
<a name="1101"><span class="ln">101 </span></a> <span
class="s1">}</span> catch (exc: Exception) {</span>
<a name="1102"><span class="ln">102 </span></a>
<span class="s1">Log.e(TAG</span><span class="s0">, </span><span
class="s3">&quot;Use case binding failed&quot;</span><span
class="s0">, </span><span class="s1">exc)</span>
<a name="1103"><span class="ln">103 </span></a> <span
class="s1">}</span>
<a name="1104"><span class="ln">104 </span></a>
<a name="1105"><span class="ln">105 </span></a> <span
class="s1">}</span><span class="s0">, </span><span
class="s1">ContextCompat.getMainExecutor(</span><span
class="s0">this</span><span class="s1">)</span>
<a name="1106"><span class="ln">106 </span></a> <span
class="s1">}</span>
<a name="1107"><span class="ln">107 </span></a>
<a name="1108"><span class="ln">108 </span></a> <span

```



```

class="s1">private </span><span class="s0">fun </span><span
class="s1">takePhoto() {</span>
<a name="1109"><span class="ln">109 </span></a> <span
class="s2"></span></a><span class="s2"> // Get a stable reference of the modifiable image
capture use case</span>
<a name="1110"><span class="ln">110 </span></a> <span
class="s0">val </span><span class="s1">imageCapture = imageCapture
?: </span><span class="s0">return</span>
<a name="1111"><span class="ln">111 </span></a>
<a name="1112"><span class="ln">112 </span></a> <span
class="s2"></span></a><span class="s2"> // Create timestamped output file to hold the
image</span>
<a name="1113"><span class="ln">113 </span></a> <span
class="s0">val </span><span class="s1">photoFile = File(</span>
<a name="1114"><span class="ln">114 </span></a> <span
class="s1">outputDirectory</span><span class="s0">,</span>
<a name="1115"><span class="ln">115 </span></a> <span
class="s1">SimpleDateFormat(</span>
<a name="1116"><span class="ln">116 </span></a>
<span class="s1">FILENAME_FORMAT</span><span class="s0">,</span>
</span><span class="s1">Locale.US</span>
<a name="1117"><span class="ln">117 </span></a> <span
class="s1">).format(System.currentTimeMillis()) + </span><span
class="s3">&quot;;.jpg&quot;</span>
<a name="1118"><span class="ln">118 </span></a> <span
class="s1"></span></a>
<a name="1119"><span class="ln">119 </span></a>
<a name="1120"><span class="ln">120 </span></a> <span
class="s2"></span></a><span class="s2"> // Create output options object which contains file +
metadata</span>
<a name="1121"><span class="ln">121 </span></a> <span
class="s0">val </span><span class="s1">outputOptions =
ImageCapture.OutputFileOptions.Builder(photoFile).build(</span>
<a name="1122"><span class="ln">122 </span></a>
<a name="1123"><span class="ln">123 </span></a> <span
class="s2"></span></a><span class="s2"> // Setup image capture listener which is triggered
after photo has</span>
<a name="1124"><span class="ln">124 </span></a> <span
class="s2"></span></a><span class="s2"> // been taken</span>
<a name="1125"><span class="ln">125 </span></a> <span
class="s1">imageCapture.takePicture(</span>
<a name="1126"><span class="ln">126 </span></a> <span
class="s1">outputOptions</span><span class="s0">,</span>
<a name="1127"><span class="ln">127 </span></a> <span
class="s1">ContextCompat.getMainExecutor(</span><span
class="s0">this</span><span class="s1">)</span><span
class="s0">,</span>
<a name="1128"><span class="ln">128 </span></a> <span
class="s0">object </span><span class="s1">:
ImageCapture.OnImageSavedCallback {</span>
<a name="1129"><span class="ln">129 </span></a>
<span class="s1">override </span><span class="s0">fun </span><span
class="s1">onError(exc: ImageCaptureException) {</span>
<a name="1130"><span class="ln">130 </span></a>
<span class="s1">Log.e(TAG</span><span class="s0">,</span>
class="s3">&quot;Photo capture failed:</span><span
class="s0">${</span><span class="s1">exc.message</span>
class="s0">}</span><span class="s3">&quot;</span>
class="s0">,</span><span class="s1">exc</span>
<a name="1131"><span class="ln">131 </span></a>
<span class="s1">}</span>

```

```

<a name="1132"><span class="ln">132 </span></a>
<a name="1133"><span class="ln">133 </span></a>
<span class="s1">override </span><span class="s0">fun </span><span
class="s1">onImageSaved(output: ImageCapture.OutputFileResults)
{</span>
<a name="1134"><span class="ln">134 </span></a>
<span class="s0">val </span><span class="s1">savedUri =
Uri.fromFile(photoFile)</span>
<a name="1135"><span class="ln">135 </span></a>
<span class="s0">val </span><span class="s1">msg = </span><span
class="s3">&quot;Photo capture succeeded: </span><span
class="s0">${</span><span class="s1">savedUri</span><span
class="s3">&quot;</span></span>
<a name="1136"><span class="ln">136 </span></a>
<span class="s1">imgPreview.loadImageFromFile(photoFile)</span>
<a name="1137"><span class="ln">137 </span></a>
<span class="s1">successTakingPhoto(photoFile)</span>
<a name="1138"><span class="ln">138 </span></a>
<span class="s1">Log.d(TAG</span><span class="s0">, </span><span
class="s1">msg</span></span>
<a name="1139"><span class="ln">139 </span></a>
<span class="s1">}</span>
<a name="1140"><span class="ln">140 </span></a> <span
class="s1">}}</span>
<a name="1141"><span class="ln">141 </span></a> <span
class="s1">}</span>
<a name="1142"><span class="ln">142 </span></a>
<a name="1143"><span class="ln">143 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">successTakingPhoto(photoFile: File) {</span>
<a name="1144"><span class="ln">144 </span></a> <span
class="s1">imgPreview.setVisible()</span>
<a name="1145"><span class="ln">145 </span></a> <span
class="s1">btnSubmit.setVisible()</span>
<a name="1146"><span class="ln">146 </span></a> <span
class="s1">imgHint.setVisible()</span>
<a name="1147"><span class="ln">147 </span></a> <span
class="s1">viewFinder.setGone()</span>
<a name="1148"><span class="ln">148 </span></a> <span
class="s1">camera_capture_button.setGone()</span>
<a name="1149"><span class="ln">149 </span></a> <span
class="s1">imgPreview.setOnClickListener {</span>
<a name="1150"><span class="ln">150 </span></a> <span
class="s1">imgPreview.setGone()</span>
<a name="1151"><span class="ln">151 </span></a> <span
class="s1">imgHint.setGone()</span>
<a name="1152"><span class="ln">152 </span></a> <span
class="s1">btnSubmit.setGone()</span>
<a name="1153"><span class="ln">153 </span></a> <span
class="s1">viewFinder.setVisible()</span>
<a name="1154"><span class="ln">154 </span></a> <span
class="s1">camera_capture_button.setVisible()</span>
<a name="1155"><span class="ln">155 </span></a> <span
class="s1">}</span>
<a name="1156"><span class="ln">156 </span></a> <span
class="s1">btnSubmit.setOnClickListener {</span>
<a name="1157"><span class="ln">157 </span></a> <span
class="s1">imgPreview.isClickable = </span><span
class="s0">>false</span>
<a name="1158"><span class="ln">158 </span></a> <span
class="s1">progressBar.setVisible()</span>

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<a name="1159"><span class="ln">159 </span></a> <span
class="s1">btnSubmit.isEnabled = </span><span
class="s0">>false</span> <span
<a name="1160"><span class="ln">160 </span></a> <span
class="s1">textHint.text =
getString(R.string.wait_upload_warn_text)</span> <span
<a name="1161"><span class="ln">161 </span></a> <span
class="s1">UploadImage </span> <span
<a name="1162"><span class="ln">162 </span></a> <span
class="s0">this</span><span
class="s1">@CameraActivity</span><span class="s0">,</span> <span
<a name="1163"><span class="ln">163 </span></a> <span
class="s1">akun.head.toString()</span><span
class="s0">,</span> <span
<a name="1164"><span class="ln">164 </span></a> <span
class="s1">photoFile.name</span><span class="s0">,</span> <span
<a name="1165"><span class="ln">165 </span></a> <span
class="s1">photoFile</span><span class="s0">,</span> <span
<a name="1166"><span class="ln">166 </span></a> <span
class="s0">this</span><span
class="s1">@CameraActivity</span><span class="s0">,</span> <span
<a name="1167"><span class="ln">167 </span></a> <span
class="s1">DIR_ITEM_IMG</span> <span
<a name="1168"><span class="ln">168 </span></a> <span
class="s1">).upload(ACCESS_CAM)</span> <span
<a name="1169"><span class="ln">169 </span></a> <span
class="s1">}</span> <span
<a name="1170"><span class="ln">170 </span></a> <span
class="s1">}</span> <span
<a name="1171"><span class="ln">171 </span></a> <span
<a name="1172"><span class="ln">172 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">allPermissionsGranted() = REQUIRED_PERMISSIONS.all
{</span> <span
<a name="1173"><span class="ln">173 </span></a> <span
class="s1">ContextCompat.checkSelfPermission(</span> <span
<a name="1174"><span class="ln">174 </span></a> <span
class="s1">baseContext</span><span class="s0">,</span> <span
class="s1">it</span> <span
<a name="1175"><span class="ln">175 </span></a> <span
class="s1">)== PackageManager.PERMISSION_GRANTED</span> <span
<a name="1176"><span class="ln">176 </span></a> <span
class="s1">}</span> <span
<a name="1177"><span class="ln">177 </span></a> <span
<a name="1178"><span class="ln">178 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">getOutputDirectory(): File {</span> <span
<a name="1179"><span class="ln">179 </span></a> <span
class="s0">val </span><span class="s1">mediaDir =
externalMediaDirs.firstOrNull()?.let {</span> <span
<a name="1180"><span class="ln">180 </span></a> <span
class="s1">File(it</span><span class="s0">,</span> <span
class="s1">resources.getString(R.string.app_name)).apply {
mkdirs() }</span> <span
<a name="1181"><span class="ln">181 </span></a> <span
class="s1">}</span> <span
<a name="1182"><span class="ln">182 </span></a> <span
class="s0">return if </span><span class="s1">(mediaDir !=
</span><span class="s0">null </span><span class="s1">& &
mediaDir.exists())</span> <span
<a name="1183"><span class="ln">183 </span></a> <span

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class="s1">mediaDir </span><span class="s0">else </span><span
class="s1">filesDir</span>
<a name="1184"><span class="ln">184 </span></a> <span
class="s1"></span>
<a name="1185"><span class="ln">185 </span></a>
<a name="1186"><span class="ln">186 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onRequestPermissionsResult(</span>
<a name="1187"><span class="ln">187 </span></a> <span
class="s1">requestCode: Int</span><span class="s0">, </span><span><span
class="s1">permissions: Array<String></span></span><span
class="s0">>, </span><span><span class="s1">grantResults:</span>
<a name="1188"><span class="ln">188 </span></a> <span
class="s1">IntArray</span>
<a name="1189"><span class="ln">189 </span></a> <span
class="s1">)</span> {</span>
<a name="1190"><span class="ln">190 </span></a> <span
class="s0">if </span><span class="s1">(requestCode ==
REQUEST_CODE_PERMISSIONS) {</span>
<a name="1191"><span class="ln">191 </span></a> <span
class="s0">if </span><span class="s1">(allPermissionsGranted())
{</span>
<a name="1192"><span class="ln">192 </span></a>
<span class="s1">startCamera() </span>
<a name="1193"><span class="ln">193 </span></a> <span
class="s1">}</span></span><span class="s0">else </span><span><span
class="s1">{</span></span>
<a name="1194"><span class="ln">194 </span></a>
<span class="s1">Toast.makeText(</span>
<a name="1195"><span class="ln">195 </span></a>
<span class="s0">this,</span>
<a name="1196"><span class="ln">196 </span></a>
<span
class="s1">getString(R.string.permission_rejected_warn_text)</span>
<span class="s0">,</span>
<a name="1197"><span class="ln">197 </span></a>
<span class="s1">Toast.LENGTH_SHORT</span>
<a name="1198"><span class="ln">198 </span></a>
<span class="s1">).show(</span>
<a name="1199"><span class="ln">199 </span></a>
<span class="s1">finish(</span>
<a name="1200"><span class="ln">200 </span></a> <span
class="s1">}</span></span>
<a name="1201"><span class="ln">201 </span></a> <span
class="s1">}</span></span>
<a name="1202"><span class="ln">202 </span></a> <span
class="s1">}</span></span>
<a name="1203"><span class="ln">203 </span></a>
<a name="1204"><span class="ln">204 </span></a> <span
class="s1">private </span><span class="s0">class </span><span><span
class="s1">LuminosityAnalyzer(private </span><span class="s0">val
</span><span class="s1">listener: LumaListener) :
ImageAnalysis.Analyzer {</span>
<a name="1205"><span class="ln">205 </span></a>
<a name="1206"><span class="ln">206 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span><span
class="s1">ByteBuffer.toByteArray(): ByteArray {</span>
<a name="1207"><span class="ln">207 </span></a> <span
class="s1">rewind() </span><span class="s2">// Rewind the
buffer to zero</span>
<a name="1208"><span class="ln">208 </span></a> <span

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class="s0">val </span><span class="s1">data =
ByteArray(remaining())</span>
<a name="1209"><span class="ln">209 </span></a> <span
class="s1">get(data) </span><span class="s2">// Copy the buffer
into a byte array</span>
<a name="1210"><span class="ln">210 </span></a> <span
class="s0">return </span><span class="s1">data </span><span
class="s2">// Return the byte array</span>
<a name="1211"><span class="ln">211 </span></a> <span
class="s1">}</span>
<a name="1212"><span class="ln">212 </span></a>
<a name="1213"><span class="ln">213 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">analyze(image: ImageProxy) {</span>
<a name="1214"><span class="ln">214 </span></a>
<a name="1215"><span class="ln">215 </span></a> <span
class="s0">val </span><span class="s1">buffer =
image.planes[</span><span class="s4">0</span><span
class="s1">].buffer</span>
<a name="1216"><span class="ln">216 </span></a> <span
class="s0">val </span><span class="s1">data =
buffer.toByteArray()</span>
<a name="1217"><span class="ln">217 </span></a> <span
class="s0">val </span><span class="s1">pixels = data.map {
it.toInt() and </span><span class="s4">0xFF </span><span
class="s1">}</span>
<a name="1218"><span class="ln">218 </span></a> <span
class="s0">val </span><span class="s1">luma =
pixels.average()</span>
<a name="1219"><span class="ln">219 </span></a>
<a name="1220"><span class="ln">220 </span></a> <span
class="s1">listener(luma)</span>
<a name="1221"><span class="ln">221 </span></a>
<a name="1222"><span class="ln">222 </span></a> <span
class="s1">image.close()</span>
<a name="1223"><span class="ln">223 </span></a> <span
class="s1">}</span>
<a name="1224"><span class="ln">224 </span></a> <span
class="s1">}</span>
<a name="1225"><span class="ln">225 </span></a>
<a name="1226"><span class="ln">226 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">imageUrl(imgUrl: String?</span><span class="s0">,
</span><span class="s1">error: String?</span><span class="s0">,
</span><span class="s1">access: Int) {</span>
<a name="1227"><span class="ln">227 </span></a> <span
class="s1">progressBar.setGone()</span>
<a name="1228"><span class="ln">228 </span></a> <span
class="s1">btnSubmit.isEnabled = </span><span
class="s0">>true</span>
<a name="1229"><span class="ln">229 </span></a> <span
class="s0">if </span><span class="s1">(imageUrl.isNullOrEmpty()
&amp;&amp; error != </span><span class="s0">>null</span><span
class="s1">) {</span>
<a name="1230"><span class="ln">230 </span></a> <span
class="s1">Toast.makeText(</span><span class="s0">this,
</span><span>
class="s1">getString(R.string.failed_upload_warn_text)</span><span
class="s0">, </span><span class="s1">Toast.LENGTH_SHORT)</span>
<a name="1231"><span class="ln">231 </span></a>
<span class="s1">.show()</span>

```

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<a name="1232"><span class="ln">232 </span></a> <span
class="s1">} </span><span class="s0">else </span><span
class="s1">{</span>
<a name="1233"><span class="ln">233 </span></a> <span
class="s0">val </span><span class="s1">intent =
Intent </span><span class="s0">this, </span><span
class="s1">DetailLaporanActivity::</span><span
class="s0">class</span><span class="s1">.java)</span>
<a name="1234"><span class="ln">234 </span></a> <span
class="s1">intent.putExtra(EXTRA_IMG_URL</span><span class="s0">,
</span><span class="s1">imgUrl)</span>
<a name="1235"><span class="ln">235 </span></a> <span
class="s1">setResult(Activity.RESULT_OK</span><span class="s0">,
</span><span class="s1">intent)</span>
<a name="1236"><span class="ln">236 </span></a> <span
class="s1">finish()</span>
<a name="1237"><span class="ln">237 </span></a> <span
class="s1">Log.d(TAG</span><span class="s0">, </span><span
class="s1">imgUrl)</span>
<a name="1238"><span class="ln">238 </span></a> <span
class="s1">}</span>
<a name="1239"><span class="ln">239 </span></a> <span
class="s1">}</span>
<a name="1240"><span class="ln">240 </span></a>
<a name="1241"><span class="ln">241 </span></a> <span
class="s1">companion </span><span class="s0">object </span><span
class="s1">{</span>
<a name="1242"><span class="ln">242 </span></a> <span
class="s1">private const </span><span class="s0">val </span><span
class="s1">TAG = </span><span
class="s3">&quot;CameraXBasic&quot;</span>
<a name="1243"><span class="ln">243 </span></a> <span
class="s1">private const </span><span class="s0">val </span><span
class="s1">ACCESS_CAM = </span><span class="s4">499</span>
<a name="1244"><span class="ln">244 </span></a> <span
class="s1">const </span><span class="s0">val </span><span
class="s1">REQUEST_CODE_CAMERA = </span><span
class="s4">999</span>
<a name="1245"><span class="ln">245 </span></a> <span
class="s1">const </span><span class="s0">val </span><span
class="s1">EXTRA_IMG_URL = </span><span
class="s3">&quot;EXTRA_IMG_URL&quot;</span>
<a name="1246"><span class="ln">246 </span></a> <span
class="s1">private const </span><span class="s0">val </span><span
class="s1">FILENAME_FORMAT = </span><span class="s3">&quot;YYYY-
MM-dd-HH-mm-ss-SSS&quot;</span>
<a name="1247"><span class="ln">247 </span></a> <span
class="s1">private const </span><span class="s0">val </span><span
class="s1">REQUEST_CODE_PERMISSIONS = </span><span
class="s4">10</span>
<a name="1248"><span class="ln">248 </span></a> <span
class="s1">private </span><span class="s0">val </span><span
class="s1">REQUIRED_PERMISSIONS =
arrayOf(Manifest.permission.CAMERA)</span>
<a name="1249"><span class="ln">249 </span></a>
<a name="1250"><span class="ln">250 </span></a> <span
class="s0">fun </span><span class="s1">start(activity: Activity)
{</span>
<a name="1251"><span class="ln">251 </span></a> <span
class="s1">activity.startActivityForResult </span>
<a name="1252"><span class="ln">252 </span></a>

```

```

<span class="s1">Intent (activity</span><span class="s0">,
</span><span class="s1">CameraActivity::</span><span
class="s0">class</span><span class="s1">.</span><span
class="s0">.java)</span><span
class="s0">,</span>
<a name="1253"><span class="ln">253 </span></a>
<span class="s1">REQUEST_CODE_CAMERA</span>
<a name="1254"><span class="ln">254 </span></a> <span
class="s1"></span></a>
<a name="1255"><span class="ln">255 </span></a> <span
class="s1"></span></a>
<a name="1256"><span class="ln">256 </span></a> <span
class="s1"></span></a>
<a name="1257"><span class="ln">257 </span></a><span
class="s1"></span></pre>
</body>
</html>

```

9. Riwayat

a. Adapter

```

<html>
<head>
<title>RiwayatAdapter.kt</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-
8">
<style type="text/css">
.s0 { color: #cc7832;}
.s1 { color: #a9b7c6;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
RiwayatAdapter.kt</font>
</center></td></tr></table>
<pre><a name="11"><span class="ln">1 </span></a><span
class="s0">package </span><span
class="s1">stta.gabriel.ta_gabriel.view.menu.officer.riwayat</span>
>
<a name="12"><span class="ln">2 </span></a>
<a name="13"><span class="ln">3 </span></a><span
class="s1">import android.view.LayoutInflater</span>
<a name="14"><span class="ln">4 </span></a><span
class="s1">import android.view.View</span>
<a name="15"><span class="ln">5 </span></a><span
class="s1">import android.view.ViewGroup</span>
<a name="16"><span class="ln">6 </span></a><span
class="s1">import androidx.recyclerview.widget.RecyclerView</span>
<a name="17"><span class="ln">7 </span></a><span
class="s1">import
kotlinx.android.synthetic.main.item_riwayat.view.*</span>
<a name="18"><span class="ln">8 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.R</span>
<a name="19"><span class="ln">9 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.model.ItemLaporan</span>
<a name="110"><span class="ln">10 </span></a>
<a name="111"><span class="ln">11 </span></a><span
class="s0">class </span><span class="s1">RiwayatAdapter(</span>
<a name="112"><span class="ln">12 </span></a> <span

```

```

class="s1">private </span><span class="s0">val </span><span
class="s1">items: MutableList<ItemLaporan></span><span
class="s0">,</span>
<a name="113"><span class="ln">13 </span></a> <span
class="s1">private </span><span class="s0">val </span><span
class="s1">callback: ItemAdapterCallback</span>
<a name="114"><span class="ln">14 </span></a><span class="s1">
: RecyclerView.Adapter<RiwayatAdapter.ViewHolder>() {</span>
<a name="115"><span class="ln">15 </span></a>
<a name="116"><span class="ln">16 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onCreateViewHolder(parent: ViewGroup</span><span
class="s0">,</span><span class="s1">viewType: Int): Holder
{</span>
<a name="117"><span class="ln">17 </span></a> <span
class="s0">val </span><span
class="s1">view=LayoutInflater.from(parent.context).inflate(R.layo
ut.item_riwayat</span><span class="s0">,</span><span
class="s1">parent</span><span class="s0">,</span>false</span><span
class="s1">)</span>
<a name="118"><span class="ln">18 </span></a> <span
class="s0">return </span><span class="s1">ViewHolder(itemView =
view)</span>
<a name="119"><span class="ln">19 </span></a> <span
class="s1">}</span>
<a name="120"><span class="ln">20 </span></a>
<a name="121"><span class="ln">21 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">getItemCount() = items.size</span>
<a name="122"><span class="ln">22 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">getItemId(position: Int) = position.toLong()</span>
<a name="123"><span class="ln">23 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">getItemViewType(position: Int) = position</span>
<a name="124"><span class="ln">24 </span></a>
<a name="125"><span class="ln">25 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onBindViewHolder(p0: Holder</span><span class="s0">,</span>
</span><span class="s1">p1: Int) {</span>
<a name="126"><span class="ln">26 </span></a> <span
class="s0">val </span><span class="s1">item = items[p1]</span>
<a name="127"><span class="ln">27 </span></a> <span
class="s1">p0.bind(item)</span>
<a name="128"><span class="ln">28 </span></a> <span
class="s1">}</span>
<a name="129"><span class="ln">29 </span></a>
<a name="130"><span class="ln">30 </span></a>
<a name="131"><span class="ln">31 </span></a> <span
class="s1">inner </span><span class="s0">class </span><span
class="s1">ViewHolder(itemView: View) :
RecyclerView.ViewHolder(itemView) {</span>
<a name="132"><span class="ln">32 </span></a>
<a name="133"><span class="ln">33 </span></a>
<a name="134"><span class="ln">34 </span></a> <span
class="s0">fun </span><span class="s1">bind(item: ItemLaporan)
{</span>
<a name="135"><span class="ln">35 </span></a> <span
class="s1">itemView.apply {</span>
<a name="136"><span class="ln">36 </span></a>
<span class="s1">textViewItemRiwayat.text = item.pelapor</span>

```



```

<a name="137"><span class="ln">37 </span></a>
<span class="s1">setOnClickListener { callback.itemClick(item)
}</span>
<a name="138"><span class="ln">38 </span></a> <span
class="s1"></span>
<a name="139"><span class="ln">39 </span></a>
<a name="140"><span class="ln">40 </span></a>
<a name="141"><span class="ln">41 </span></a> <span
class="s1"></span>
<a name="142"><span class="ln">42 </span></a>
<a name="143"><span class="ln">43 </span></a>
<a name="144"><span class="ln">44 </span></a> <span
class="s1"></span>
<a name="145"><span class="ln">45 </span></a>
<a name="146"><span class="ln">46 </span></a> <span
class="s0">interface </span><span class="s1">ItemAdapterCallback
</span>
<a name="147"><span class="ln">47 </span></a> <span
class="s0">fun </span><span class="s1">itemClick(item:
ItemLaporan) </span>
<a name="148"><span class="ln">48 </span></a>
<a name="149"><span class="ln">49 </span></a> <span
class="s1"></span>
<a name="150"><span class="ln">50 </span></a><span
class="s1"></span></pre>
</body>
</html>

```

b. Fragment

```

<html>
<head>
<title>RiwayatFragment.kt</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-
8">
<style type="text/css">
.s0 { color: #cc7832;}
.s1 { color: #a9b7c6;}
.s2 { color: #808080;}
.s3 { color: #6897bb;}
.ln { color: #606366; font-weight: normal; font-style: normal; }
</style>
</head>
<body bgcolor="#2b2b2b">
<table CELLSPACING=0 CELLPADDING=5 COLS=1 WIDTH="100%"
BGCOLOR="#606060" >
<tr><td><center>
<font face="Arial, Helvetica" color="#000000">
RiwayatFragment.kt</font>
</center></td></tr></table>
<pre><a name="11"><span class="ln">1 </span></a><span
class="s0">package </span><span
class="s1">stta.gabriel.ta_gabriel.view.menu.officer.riwayat</span
>
<a name="12"><span class="ln">2 </span></a>
<a name="13"><span class="ln">3 </span></a>
<a name="14"><span class="ln">4 </span></a><span
class="s1">import android.content.Context</span>
<a name="15"><span class="ln">5 </span></a><span
class="s1">import android.content.Intent</span>
<a name="16"><span class="ln">6 </span></a><span
class="s1">import android.os.Bundle</span>

```

```

<a name="17"><span class="ln">7 </span></a><span
class="s1">import android.view.LayoutInflater</span>
<a name="18"><span class="ln">8 </span></a><span
class="s1">import android.view.View</span>
<a name="19"><span class="ln">9 </span></a><span
class="s1">import android.view.ViewGroup</span>
<a name="110"><span class="ln">10 </span></a><span
class="s1">import androidx.fragment.app.Fragment</span>
<a name="111"><span class="ln">11 </span></a><span
class="s1">import
androidx.recyclerview.widget.LinearLayoutManager</span>
<a name="112"><span class="ln">12 </span></a><span
class="s1">import com.google.firebase.database.*</span>
<a name="113"><span class="ln">13 </span></a><span
class="s1">import
kotlinx.android.synthetic.main.fragment_laporan.*</span>
<a name="114"><span class="ln">14 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.R</span>
<a name="115"><span class="ln">15 </span></a><span
class="s1">import stta.gabriel.ta_gabriel.model.ItemLaporan</span>
<a name="116"><span class="ln">16 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.util.TABLE_LAPORAN</span>
<a name="117"><span class="ln">17 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.detaillaporan.DetailLaporanActivity</
span>
<a name="118"><span class="ln">18 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.detaillaporan.DetailLaporanActivity.C
ompanion.startDetail</span>
<a name="119"><span class="ln">19 </span></a><span
class="s1">import
stta.gabriel.ta_gabriel.view.menu.officer.HomeActivity</span>
<a name="120"><span class="ln">20 </span></a>
<a name="121"><span class="ln">21 </span></a><span
class="s0">class </span><span class="s1">RiwayatFragment :
Fragment() </span><span class="s0">, </span><span
class="s1">RiwayatAdapter.ItemAdapterCallback {</span>
<a name="122"><span class="ln">22 </span></a> <span
class="s1">private </span><span class="s0">var </span><span
class="s1">stockList: MutableList<ItemLaporan> =
mutableListOf()</span>
<a name="123"><span class="ln">23 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">itemAdapter: RiwayatAdapter</span>
<a name="124"><span class="ln">24 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">laporan: DatabaseReference</span>
<a name="125"><span class="ln">25 </span></a> <span
class="s1">private lateinit </span><span class="s0">var
</span><span class="s1">topActivity: HomeActivity</span>
<a name="126"><span class="ln">26 </span></a>
<a name="127"><span class="ln">27 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onAttach(context: Context) {</span>
<a name="128"><span class="ln">28 </span></a> <span
class="s0">super</span><span class="s1">.onAttach(context) </span>
<a name="129"><span class="ln">29 </span></a> <span
class="s1">topActivity = context </span><span class="s0">as
</span><span class="s1">HomeActivity</span>

```

```

<a name="130"><span class="ln">30 </span></a> <span
class="s1">}</span>
<a name="131"><span class="ln">31 </span></a>
<a name="132"><span class="ln">32 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onCreateView(</span>
<a name="133"><span class="ln">33 </span></a> <span
class="s1">inflater: LayoutInflater</span><span class="s0">,
</span><span class="s1">container: ViewGroup?</span><span
class="s0">, </span>
<a name="134"><span class="ln">34 </span></a> <span
class="s1">savedInstanceState: Bundle?</span>
<a name="135"><span class="ln">35 </span></a> <span
class="s1">): View? {</span>
<a name="136"><span class="ln">36 </span></a> <span
class="s2">// Inflate the layout for this fragment</span>
<a name="137"><span class="ln">37 </span></a> <span
class="s0">return </span><span
class="s1">inflater.inflate(R.layout.fragment_laporan</span><span
class="s0">, </span><span class="s1">container</span><span
class="s0">, false</span><span class="s1">)</span></span>
<a name="138"><span class="ln">38 </span></a> <span
class="s1">}</span>
<a name="139"><span class="ln">39 </span></a>
<a name="140"><span class="ln">40 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onViewCreated(view: View</span><span class="s0">,
</span><span class="s1">savedInstanceState: Bundle?) {</span>
<a name="141"><span class="ln">41 </span></a> <span
class="s0">super</span><span
class="s1">.onViewCreated(view</span><span class="s0">,
</span><span class="s1">savedInstanceState)</span>
<a name="142"><span class="ln">42 </span></a> <span
class="s1">itemAdapter = RiwayatAdapter(stockList</span><span
class="s0">, this</span><span class="s1">)</span>
<a name="143"><span class="ln">43 </span></a> <span
class="s1">rv_laporan.apply {</span>
<a name="144"><span class="ln">44 </span></a> <span
class="s1">layoutManager = LinearLayoutManager(context)</span>
<a name="145"><span class="ln">45 </span></a> <span
class="s1">adapter = itemAdapter</span>
<a name="146"><span class="ln">46 </span></a> <span
class="s1">}</span>
<a name="147"><span class="ln">47 </span></a> <span
class="s1">laporan =
FirebaseDatabase.getInstance().reference.child(TABLE_LAPORAN)</spa
n>
<a name="148"><span class="ln">48 </span></a> <span
class="s1">laporan.keepSynced(</span><span
class="s0">>true</span><span class="s1">)</span>
<a name="149"><span class="ln">49 </span></a> <span
class="s1">getStockList()</span>
<a name="150"><span class="ln">50 </span></a> <span
class="s1">}</span>
<a name="151"><span class="ln">51 </span></a>
<a name="152"><span class="ln">52 </span></a> <span
class="s1">private </span><span class="s0">fun </span><span
class="s1">getStockList() {</span>
<a name="153"><span class="ln">53 </span></a> <span
class="s0">val </span><span class="s1">list =
mutableListOf<ItemLaporan>()</span>

```

```

<a name="154"><span class="ln">54 </span></a> <span
class="s1">laporan.addValueEventListener (</span><span
class="s0">object </span><span class="s1">: ValueEventListener
{</span>
<a name="155"><span class="ln">55 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onCancelled(p0: DatabaseError) {</span>
<a name="156"><span class="ln">56 </span></a>
<a name="157"><span class="ln">57 </span></a> <span
class="s1">}</span>
<a name="158"><span class="ln">58 </span></a>
<a name="159"><span class="ln">59 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">onDataChange(dataSnapshot: DataSnapshot) {</span>
<a name="160"><span class="ln">60 </span></a>
<span class="s1">list.clear()</span>
<a name="161"><span class="ln">61 </span></a>
<span class="s1">stockList.clear()</span>
<a name="162"><span class="ln">62 </span></a>
<a name="163"><span class="ln">63 </span></a>
<span class="s0">if </span><span
class="s1">(dataSnapshot.exists()) {</span>
<a name="164"><span class="ln">64 </span></a>
<span class="s0">for </span><span class="s1">(data </span><span
class="s0">in </span><span class="s1">dataSnapshot.children)
{</span>
<a name="165"><span class="ln">65 </span></a>
<span class="s0">val </span><span class="s1">item =
data.getValue(ItemLaporan::</span><span
class="s0">class</span><span class="s1">.java)</span>
<a name="166"><span class="ln">66 </span></a>
<span class="s0">if </span><span class="s1">(item?.status ==
</span><span class="s3">3 </span><span class="s2">/*& & ;
item.id user == topActivity.akun.head.default()*</span><span
class="s1">)</span>
<a name="167"><span class="ln">67 </span></a>
<span class="s1">list.add(item)</span>
<a name="168"><span class="ln">68 </span></a>
<span class="s1">}</span>
<a name="169"><span class="ln">69 </span></a>
<span class="s1">}</span>
<a name="170"><span class="ln">70 </span></a>
<span class="s1">stockList.addAll(list)</span>
<a name="171"><span class="ln">71 </span></a>
<span class="s1">itemAdapter.notifyDataSetChanged()</span>
<a name="172"><span class="ln">72 </span></a> <span
class="s1">}</span>
<a name="173"><span class="ln">73 </span></a> <span
class="s1">})</span>
<a name="174"><span class="ln">74 </span></a> <span
class="s1">}</span>
<a name="175"><span class="ln">75 </span></a>
<a name="176"><span class="ln">76 </span></a> <span
class="s1">override </span><span class="s0">fun </span><span
class="s1">itemClick(item: ItemLaporan) {</span>
<a name="177"><span class="ln">77 </span></a> <span
class="s0">val </span><span class="s1">intent =
Intent(context</span><span class="s0">, </span><span
class="s1">DetailLaporanActivity::</span><span
class="s0">class</span><span class="s1">.java)</span>
<a name="178"><span class="ln">78 </span></a> <span

```

```

class="s1">startDetail (</span>
<a name="179"><span class="ln">79 </span></a> <span
class="s1">intent</span><span class="s0">, </span><span
class="s1">ItemLaporan (</span>
<a name="180"><span class="ln">80 </span></a>
<span class="s1">item.foto1</span><span class="s0">, </span>
<a name="181"><span class="ln">81 </span></a>
<span class="s1">item.foto2</span><span class="s0">, </span>
<a name="182"><span class="ln">82 </span></a>
<span class="s1">item.pelapor</span><span class="s0">, </span>
<a name="183"><span class="ln">83 </span></a>
<span class="s1">item.status</span><span class="s0">, </span>
<a name="184"><span class="ln">84 </span></a>
<span class="s1">item.lokasi</span><span class="s0">, </span>
<a name="185"><span class="ln">85 </span></a>
<span class="s1">item.head</span><span class="s0">, </span>
<a name="186"><span class="ln">86 </span></a>
<span class="s1">item.id_user</span><span class="s0">, </span>
<a name="187"><span class="ln">87 </span></a>
<span class="s1">item.tanggal_laporan</span><span
class="s0">, </span>
<a name="188"><span class="ln">88 </span></a>
<span class="s1">item.tanggal_proses</span><span
class="s0">, </span>
<a name="189"><span class="ln">89 </span></a>
<span class="s1">item.tanggal_selesai</span>
<a name="190"><span class="ln">90 </span></a>
<a name="191"><span class="ln">91 </span></a> <span
class="s1"></span><span class="s0">, </span><span
class="s1">item.status</span>
<a name="192"><span class="ln">92 </span></a> <span
class="s1">).let { startActivity(it) }</span>
<a name="193"><span class="ln">93 </span></a> <span
class="s1">}</span>
<a name="194"><span class="ln">94 </span></a>
<a name="195"><span class="ln">95 </span></a> <span
class="s1">companion </span><span class="s0">object </span><span
class="s1">{</span>
<a name="196"><span class="ln">96 </span></a> <span
class="s0">fun </span><span class="s1">newInstance () : Fragment
{</span>
<a name="197"><span class="ln">97 </span></a> <span
class="s0">return </span><span class="s1">RiwayatFragment (</span>
<a name="198"><span class="ln">98 </span></a> <span
class="s1">}</span>
<a name="199"><span class="ln">99 </span></a> <span
class="s1">}</span>
<a name="1100"><span class="ln">100 </span></a>
<a name="1101"><span class="ln">101 </span></a><span
class="s1">}</span></pre>
</body>
</html>

```