REST APPLICATION PROGRAMMING INTERFACE (API) *DESIGN TO SUPPORT THE DEVELOPMENT OF AVIATION MANAGEMENT INFLATION SYSTEM AT ANGKASA PURA I AIRPORT*

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ABSTRACT

Application Programming Interface (API*) is an interface built by system developers so that some or all of the system functions can be accessed programmatically. Meanwhile, Representational State Transfer* (REST) *is an architectural style of* API *development that uses Hypertext Transfer Protocol* (HTTP*) to communicate data. This study implements the* REST *architectural style in the development of* API *as a back-end information system in inflation monitoring for Angkasa Pura I Airport flight management. The* API *developed uses Javascript Object Notation* (JSON*) as the standard format for data communication and* JSON *Web Token* (JWT) *as the user authentication code. This study shows that* API *development was successfully carried out on inflation monitoring at Angkasa Pura I Airport flight management and that* REST *was implemented to facilitate the development of the* API *structure. This research produces a back-end inflation management information system at Angkasa Pura I Airport based on* REST API*. The* API *is tested in three stages, namely* JWT *testing on a large number of back-end servers,* API *testing and system functional testing.*

Keywords: Application Programming Interface (API), *Representational State Transfer* (REST), *Hypertext Transfer Protocol* (HTTP), *Javascript Object Notation* (JSON), JSON *Web Token* (JWT).