

Pengembangan Aplikasi *Mobile LegitCheck* Berbasis Arsitektur *Model View ViewModel (MVVM)*

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Abstract

LegitCheck mobile application is designed to address the problem of counterfeit goods that negatively impact user experience and brand image. LegitCheck does not yet have a mobile application so it is necessary to create a mobile application, LegitCheck is built using Model View ViewModel (MVVM) architecture because of its efficiency in execution time and API load time. MVVM makes it possible to speed up data retrieval from the API, the API is used as a bridge between the application and the server. This application includes the features of verifying the authenticity of goods, claiming ownership, and transferring ownership of QR codes. Application development is done with framework Flutter and Dart programming language, which allows the application to run on Android and iOS, Flutter provides advantages in consistent multiplatform application development. Testing using the White box testing method, and Black box is applied to the LegitCheck application to ensure the application functions as expected. The test results show that the LegitCheck application has met the needs and specifications set.

Keywords: *Aplikasi mobile, LegitCheck, MVVM, iOS, Android, Flutter, Dart, API, White box, Black box*

