

ABSTRACT

Public health service facilities during the Covid-19 pandemic are very important in dealing with public health. With the Covid-19 pandemic, the health service system at the puskesmas cannot run optimally due to changes in the health service system at the puskesmas. To overcome these problems, this Final Project is made, namely the Design and Implementation of Android-Based Applications using Android Studio Software and using the React Native programming language and in designing the design using Figma Tools. In designing the application system using the UML (Unified Modeling Language) model as a description of the system design that is made and the database used is the MySQL database. All data in the application will be managed and stored by the database and all data can be displayed in the application. In the design and implementation of Android-Based Applications in this Final Project, it is hoped that it can help health services at the Linggarjati Health Center.

The test results show that the application has been successfully created and can be used by patients or health workers so that services at the Linggarjati Health Center are more optimal and efficient. In functionality testing, the application can run as designed and can run 100% successfully. The application can run on Android 5.0 (Lollipop) to Android API 33 (API 33). The average delay from the application to the database is 0.19 seconds (good) and the average throughput from the application to the database is 4.07 Kbps (very good) and based on questionnaire testing using the Likert Scale formula method get a result of 91.58% (very good) from 32 respondents who stated that patients and health workers felt helped in health services at the Linggarjati Health Center with the application that had been made.

Keywords: Covid-19, Puskesmas, Android Studio Software, React Native, Figma, MySQL.