

ABSTRACT

Based on survey data on Clinic of Bojongsoang indicates that the disease is the second largest disease hypertension after respiratory in Bojongsoang with number of sufferers as much as 247 people in 2017 and 4961 people in 2018. This is due to the large number of trigger factors that affects one of them such as the presence of diseases, including specialised on the system kardiovaskuler.

From the above problem, it needs a system that can reduce the impact of the hypertension. Therefore, there is a monitoring system cardiology and body temperature based on Android. This system can provide convenience for users to monitor blood pressure, heart rate, and body temperature. Sensors on the device will connect to the internet to transmit data to the Firebase realtime database in order to be displayed in applications that have been created using Android Studio software.

In this system, blood pressure, heart rate, and body temperature can be monitored more easily. In the functionality test, the application can work properly. In addition, based on questionnaires from several respondents showed that 80% said the application of monitoring cardiology and body temperature is already according to the needs of the user.

Keywords: *Android, Cardiology, Hypertension, Database, Internet of Things.*