

ABSTRACT

Health is an important thing for every individual. Health consultation with doctors should be routine. Where doctors can provide diagnosis to the patient's body and know how to handle health problem to the patient with the good ways. But because the busy activities in every day, sometimes people do not pay attention to the condition of his own body health.

Given the problems it needs an android application to facilitate patients and doctors to be able to consult long distances. This android application contains about Heartbeat Record and Patient Lung. Heartbeat Record and Pulse Beats is done by checking the heart rate and lungs of patients using electronic stethoscope that has been arranged in such a way as to be connected with android application that will record the heart sound of the patient. Each patient will send a complaint along with the results of the heart record to the doctor concerned. So, doctors can provide diagnoses in real time using the application. In order for communication can be done in real time, then the android application that has been created in android studio will be connected with Firebase.

This android application is expected to facilitate the patient to consult with his doctor in real time, although not face to face each other directly. So, people who are in the busyness and activities can still conduct regular health consultations. The average audio data obtained in one minute of the test is 734,187 bytes. While in testing the usage data, the results obtained in the data download is greater than the upload data. Based on the results of the questionnaire, respondents answered 91.7% of this application interesting to use and 100% of this application runs in accordance with its function.

Keywords: Internet of Things, Real Time, Heartbeat Record and Lung Pulse