

ABSTRACT

The importance of drinking water needs to be realized by all parties and the obligations of each individual, because approximately 60-70% of the human body contains water. This is what makes humans need adequate water intake in order to maintain freshness and fitness. In an era that is already sophisticated all-digital like today, it is supposed to use all-smart technology to facilitate simple everyday problems. Because many people do not know their daily water needs or feel indifferent to meeting their water needs, many people are actually dehydrated.

In this design, an application made smart water dispenser monitoring that can monitor the user's daily water needs and also send notifications at certain hours to remind users, so that users are aware of meeting their drinking water needs. The dispenser with the selected sensors will forward the data to the web server for processing, then the data is forwarded back to the application smart dispenser water monitoring mobile.

The results of functionality testing, all the features contained in the application mobile can be run properly. For non-functionality testing, the application can be run on various android that have specifications smartphone different. For the Throughput test results obtained an average value of 4.91 kb/s. For the test results, Delay the average value for the process is read database 280.42 ms and for the process it is write database 274.35 ms, so the value Delay obtained is good. For the results of testing Availability and, the Reliability values were 97.4% and 97.33% were tested for 3 hours.

Keywords: *Internet of things, mobile application, Throughput, Delay*