

ABSTRACT

Dispenser is a tool that serves to place gallons of water and take drinking water. In an all-digital era, it is necessary to use all-smart technology, this is to facilitate human work from various aspects of daily activities. One of these aspects is the health sector. There are still many people who are not aware of the importance of meeting their daily drinking water needs, this results in many people experiencing dehydration or lack of fluids in the body.

In designing this Android application, a smart dispenser application will be created that helps humans to monitor and remind users of the user's daily drinking water needs and can also make it easier for dispenser owners to meet their gallon needs which are connected directly to the gallon seller when the gallon wants it. exhausted, so that it can help users to meet their drinking water needs. The dispenser with the sensors used will forward data to web server and database to be processed and stored, then the data is forwarded back to the application mobile smart dispenser for display.

From the system test results, it is known that all the features in the smart dispenser application can run well and can be connected to the database Firebase. Assessment based on UEQ the largest value was obtained on the attractiveness scale, it is 2,60. In network testing, the average value of delay was 281 ms based on the TIPHON standard, the value was categorized as "Good" and for the throughput test, the average value was 18,130 bps, the value was categorized as "Very Good." based on TIPHON standard.

Keywords: *Smart Dispenser, Drinking Water Needs, Android Application, Delay.*