

ABSTRACT

Water is a substance that is very useful for the needs of the human body. The need for water in the human body is certainly different according to age and also the health of the body of each human being. The water that the author means here is mineral water or water that can be consumed by humans. The water collection itself is usually done manually without using features that can make it easier for humans to take and also monitor when drinking water.

Dispenser is a tool that can be used to place gallons of drinking water so that humans can more easily take drinking water from gallons of water to the glass that will be used. So far, dispensers generally do not have several features that can be used to make it easier for the owner to monitor the amount of drinking water that has been drunk every day. In this modern era, all the tools that will be used by humans to meet their needs have been modified to become more sophisticated with various features on it.

From the test results of the tools and sensors used, it is known that all smart dispenser tools and sensors can run well with accuracy values that are classified as feasible to use and can be connected to the *Firebase database*. In the network test, the average delay value of 273 ms was obtained based on the TIPHON standard, the value was categorized as "Good" and for the throughput test results, an average value of 38,5 kbps was categorized as "Very Good" based on the TIPHON standard.

Keywords : *Website, Dispenser, Quality of Service, Internet of Things (IoT)*