

ABSTRACT

COVID-19 is one of the first coronavirus outbreaks found in the city of Wuhan (China). As we all know that the spread of this coronavirus is so fast ranging from contact with sufferers to droplets attached to objects especially in public places that we do not know before whether these objects are used by COVID-19 sufferers. And the easiest way to prevent this virus is to maintain cleanliness and keep a distance. The lack of awareness of Indonesian people for cleanliness makes COVID-19 cases in Indonesia very high.

In the rapid development of technology, as it is today, there are many ways to have the coronavirus contracted. Because of the lack of awareness of Indonesian people when using public facilities, this IoT-based automated storage system can be used as an alternative to minimize contracting the coronavirus in Indonesia.

In this study, the authors tested the servo motor by analyzing the angle of rotation precision or not using the help of arc degrees obtained results in testing 1-2 inaccuracy values 0% and in testing 3.4 and 5 obtained inaccuracy values of 2%, 3.7%, and 2.7%. Then in testing the optimal ultrasonic sensor detects a human or an object at a distance of 0-156 cm. Then in infrared sensor testing, and blynk applications, in the condition of 20 blynk applications managed to send notifications and email alerts and in the condition of 25 blynk applications managed to send notifications and emails that the contents of the box had run out. And the latest test is quality of service with an average delay value of 168ms and in throughput testing obtained an average value of 120.5 which is still said to be good delay and throughput value according to the ITU-T G1010 standard.

Keyword: *Arduino Uno, Automated Storage, Blynk, Df Player Mini, HC-SR04 Sensor, Infrared Sensor.*