

## ABSTRACT

The development of technology and the internet is driving the rapidly changing times. The Internet of Things is part of the popular development of the internet. The internet of things can already be applied to things that are close to us, such as electronic devices. One of them is the Smarthome system that can monitor and control the use of electronic devices.

The author makes a final project that can monitor and store data connected to the internet and access it through a website that can be accessed easily. Sensor data in the room of the house will be sent using the connectivity on the nodeMCU module. the data will be taken to the database, the database used is the Firebase real-time database. the data in the database will be displayed on a website that uses HTTP and javascript programming and is designed using CSS and bootstrap.

The results of the functionality test show that all the features on the Monitoring website can work well and can be accessed by the admin. For the results of network connectivity testing by performing a delay test, the results obtained are delay where the lowest value is 0.1811 seconds and the highest result is 0.3235 seconds. From the test results obtained an average delay of 0.2548 seconds.

**Keyword:** *Internet of Things, Smart Home, Website, database.*