

ABSTRACT

Internet of Things, also known by the acronym IoT is a concept that aims to extend the benefits of internet connectivity that connect on an ongoing basis. As for capabilities such as data sharing, remote control, and so on, as well as on objects in the real world. Kitchen devices such as that of the University kitchen laboratory in Telkom has lots of facilities that should be in a desirable and monitored the use of human. Such as lights and water taps are often the small things that are overlooked by users of the kitchen, because the second deadly often forget him before leaving the kitchen.

Microcontroller device used in the system of smart kitchen this is ESP8266 where the ESP8266 function to set the incoming data to control servo motor water faucets are also integrated by relay lights also solenoid. It also serves to connect to the database at Thingspeak, which will store the data from the system to turn on the IoT and turn off the lights and water faucets through Android applications.

Testing of the system has done a smart kitchen and menyalan to turn off the water taps and lights pengimplementasikan Testing Laboratory of the University Kitchen done in Telkom, the tool works well and carried out testing the value of the delay on the application to the device when the lights are turned on to happen when 8.3 seconds and delay turned off ensued delay 7.3 seconds, as well as water faucets turned on 9.11 seconds delay occurs and when turned off ensued delay is 9 seconds.

Keyword: Internet Of Things, Thingspeak, Smart Kitchen, ESP8266.