ABSTRACK

Prolonged rainy continuously will cause flooding. Not the least affected areas inhibit the activity of the public who wish through the area. Has a lot of technology in the form of early flood detection sensor that has been made to facilitate the public to know the area affected banjir. With rapid technological developments and changes quickly then there is also interest in the information technology previously community. If based flood early detection sensor FM-RDS (Radio Data System) then the final project is early detection sensor flood created technology-based Internet of Things (IOT).

Early detection sensor flood in this Final Project using Sensitive Sensor Rain Sensor Module, ESP8266 and Arduino Uno. Rain Sensor Module Sensitive Sensor is used to detect flooding, the output of the sensor will be processed on the Arduino Uno. Data readings at the Arduino will then be sent to a microprocessor system ESP8266 connecting to the website. Early detection sensor flood be assembled at two different points. Data from sensor 1 and sensor 2 will be transmitted simultaneously using ESP8266 to the web. Output of both sensors will appear on the web to make it look the incoming data correctly.

Early detection sensor node 1 on floods have fault tolerance value test output on sensor display web by 0.26% , while the sensor node 2 has a fault tolerance value test output on sensor display web of 0.3%. Delay time requirements second sensor node to review featuring findings exodus on sensor web is 8.32 seconds. article search google said second sensor node operates deteksi early flood will simultaneously feature data output on sensor web that can be seen by ' community.

Keywords: *Internet of things* (IOT), esp8266-12E, *Rain Sensor Sensitive Sensor Module.*