

## ABSTRACT

Flood is one of the disasters that often occur in Indonesia. During the rainy season, flooding cannot be avoided due to the lack of infiltration areas and the existing rivers cannot stem the overflow of water, so that the negative impact that occurs is very large so that it can harm many parties. Currently, the Citarum river is one of the rivers that is regularly flooded every year. Early warnings for floods have been installed, but only a few parties have access to these warnings. So to carry out evacuation is often hampered.

Technology is now developing rapidly. At this time IoT (Internet of Things) can help problems faced by humans, with that IoT can be used to provide banjir warnings. Installed IoT tools can send messages to monitoring applications and websites to provide water level data obtained by the tool, so that it can provide data to be displayed on the website.

The Website Citarum river monitoring successfully made, can display *realtime* and history. In the data match test, the data displayed is accurate as received by firebase. In the latency test, the latency is between 34ms – 159ms, the average obtained during the 7-day test is 84.42ms. Testing the questionnaire got a reliable value with a respondent's value of  $r_{11}$  0.84.

**Keyword** : Flood, website, warning, monitoring, Dashboard