

## ABSTRACT

Knowledge and technology are experiencing rapid development and have major influence on people's activities. Technology has helped in many aspects of work, including in the world of business and education. One technology that is very helpful is the Internet Of Things (IoT). The internet of things at this time really helps the community, one of which is to carry out the *monitoring* process.

The current monitoring process is quite effective. However, it is still ineffective if there is no software or media to check remote monitoring. So we need dashboard to display the results of data from monitoring sensors.

In this capstone design, a monitoring dashboard will be designed where this dashboard will later display the results of data visualization obtained from IoT sensor. The sensors to be used are an ultrasonic and a DHT11 sensor. An ultrasonic sensor is needed to measure the water level in the generator tank and a DHT11 sensor to measure temperature

The results of this study indicate that designed IoT dashboards and sensors have operated properly and are in line with expectations. The sensor has read the data results that match the censored object, and then the dashboard has obtained the data result values and has been visualized.

**Keywords :** *Dashboard*, IoT, Monitoring , *Monitoring* sensor ultrasonik.