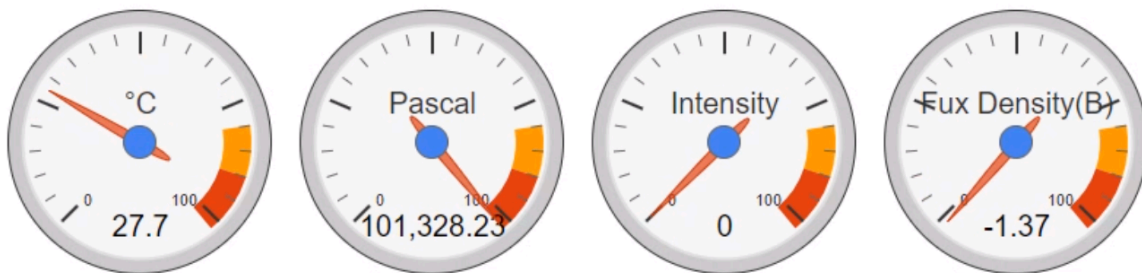


Real Time Gauges using MQTT

This project gives a visual representation of the data collected from different sensors using a MQTT platform. The devices used are BMP180, ADXL335, Raspberry Pi, ESP32. The MQTT Broker is used on the Raspberry pi. The data which is collected from all three sensors are been published into the MQTT Server from the Raspberry Pi. The published data on the MQTT server is been accessed by the subscriber in the laptop. And the accessed data values are used to display the gauges on the browser. Using ADXL335, the algorithm to measure the intensity of the movement of the object is implemented on the ESP32 client side. And as we know the internal sensor of ESP32(Hall effect Sensor) is very noisy, so the 1000 samples are been average to get the stable and reliable readings.

My Web Dashboard



Submitted by

Tushant (11015370) and Jenif Athina (11015445)

Supervisor

Prof. Benedict, Domnic Savio

