ABSTRACT

This final project discusses a prototype indoor air quality detector using NodeMCU 8266 microcontoler, DHT11 sensor and MQ135 sensor connected to the IoT platform as a monitoring and notification system. The MQ135 sensor module as an air quality detector, the DHT11 sensor module as an air temperature quality detector, sends an input signal to be processed by the NodeMCU 8266 microcontroller. The wifi module contained in NodeMCU 8266 sends the value read by the sensor to the Blynk IoT platform. In this case, Blynk functions as part of the monitoring system. The Blynk apps link indirectly to a prototype air quality detector via the internet. The read value from the sensor is processed according to the program and if it meets the specified sensor level, the system will notify the user via the Blynk apps. This system has the potential to be used as an indoor air quality monitoring system to raise awareness about the importance of healthy air quality.

Keywords: Internet of Things, DHT11, MQ-135, Air Quality, Air Temperature, esp8266