



ITCS446 Embedded Systems and Applications

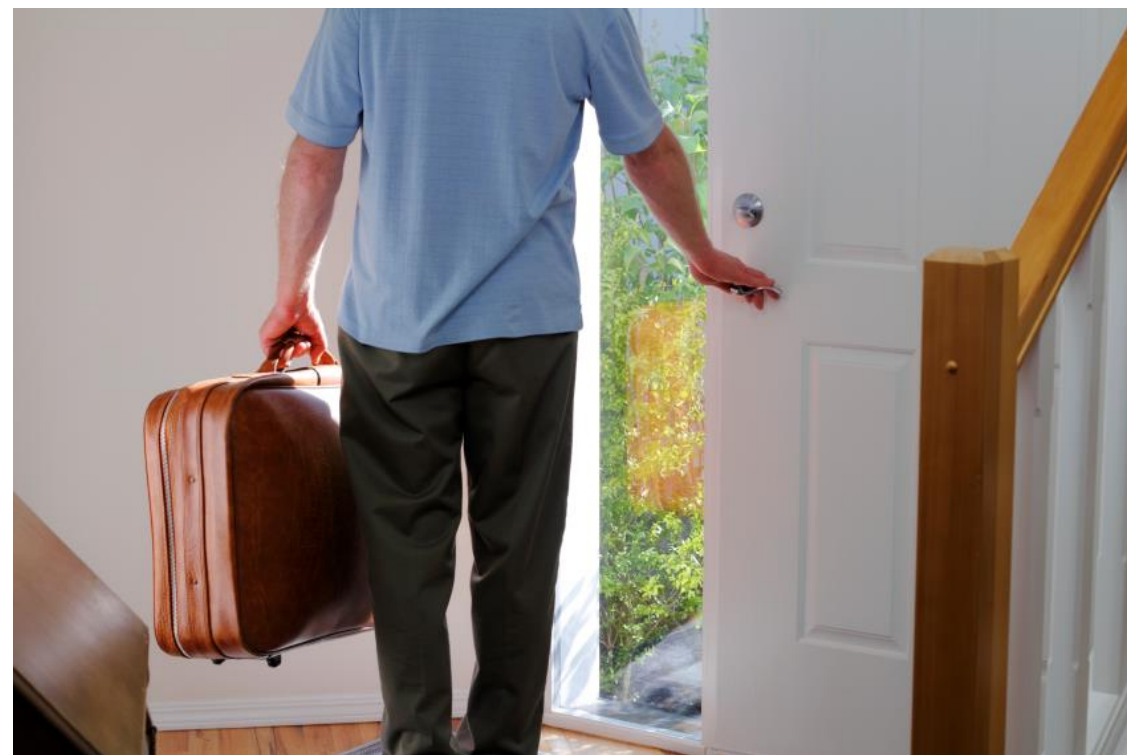
**RPI and ESP32 for Humidity and Temperature Monitoring Utilizing
DHT10 to Control Temperature with DCMotor**

Group K

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Problem





Objective(s)

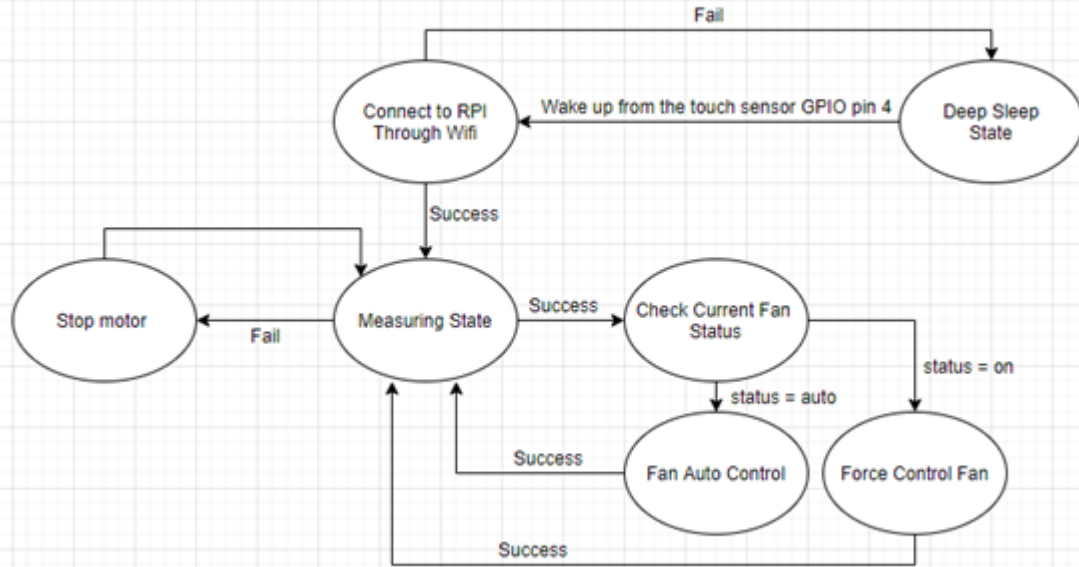
Monitor humidity and temperature overtime

Toggle DCMotor when the temperature is high

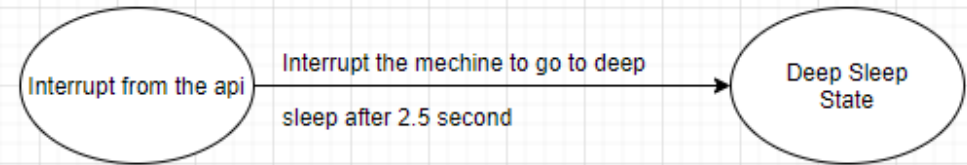
Scenarios

When there is in need for temperature and humidity monitoring over a period of time, and you are not available in the area for several hours. This creation allows you to measure the humidity and temperature on your phone using Blynk application or Node-Red web application. Moreover, you can control the DCMotor to on, off or auto state to control the temperature around the area.

Project Design

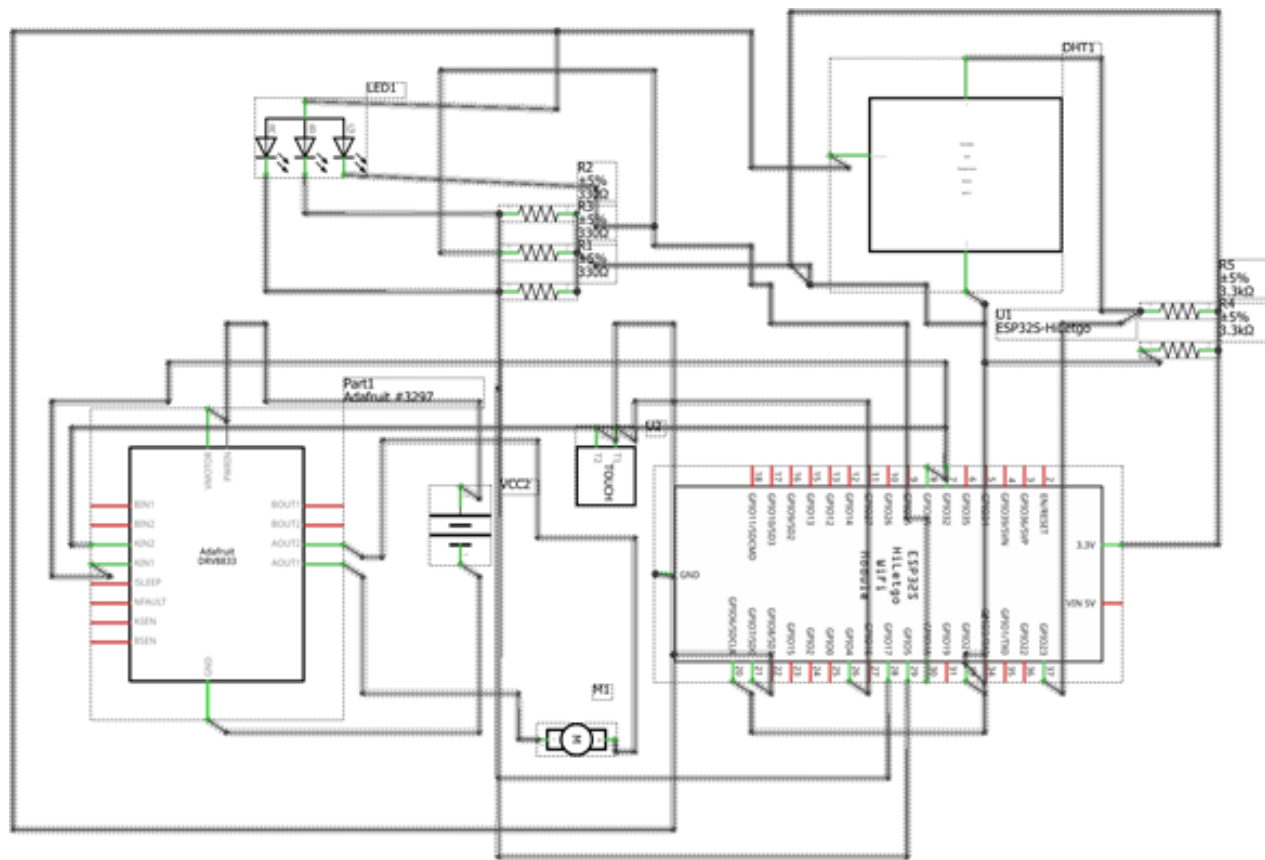


Idle State



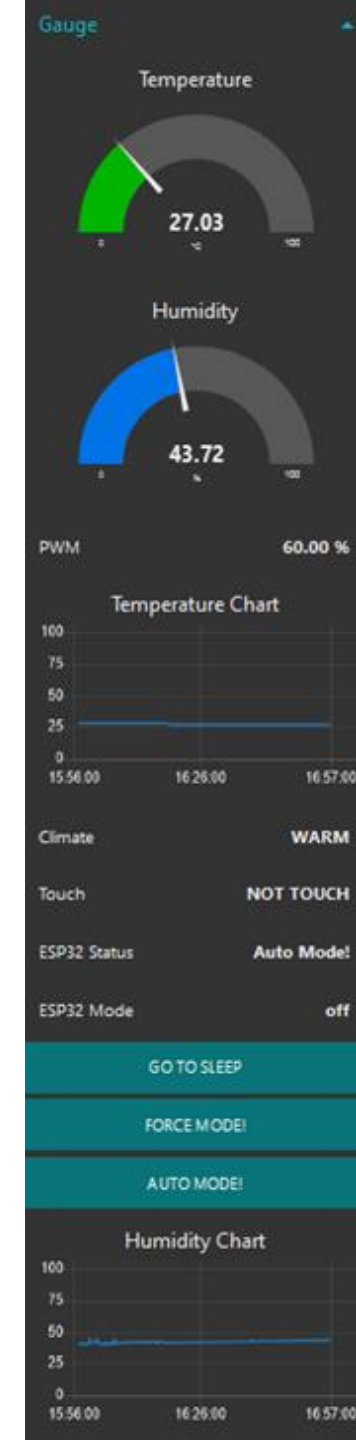
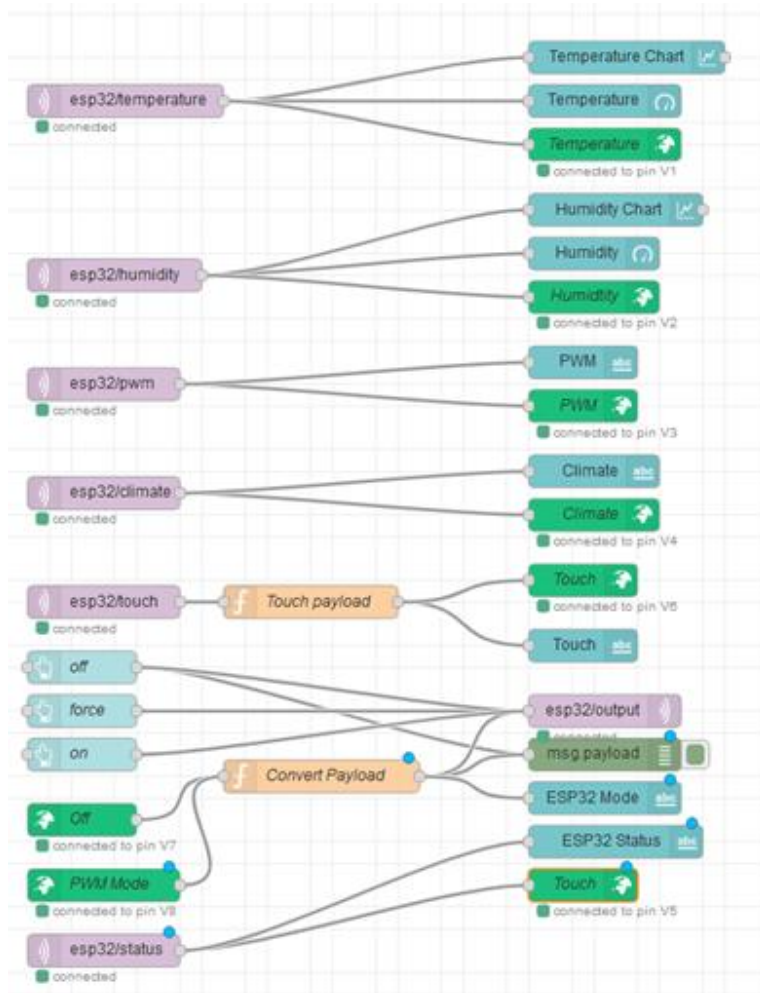
Interruption

Circuit Schematic

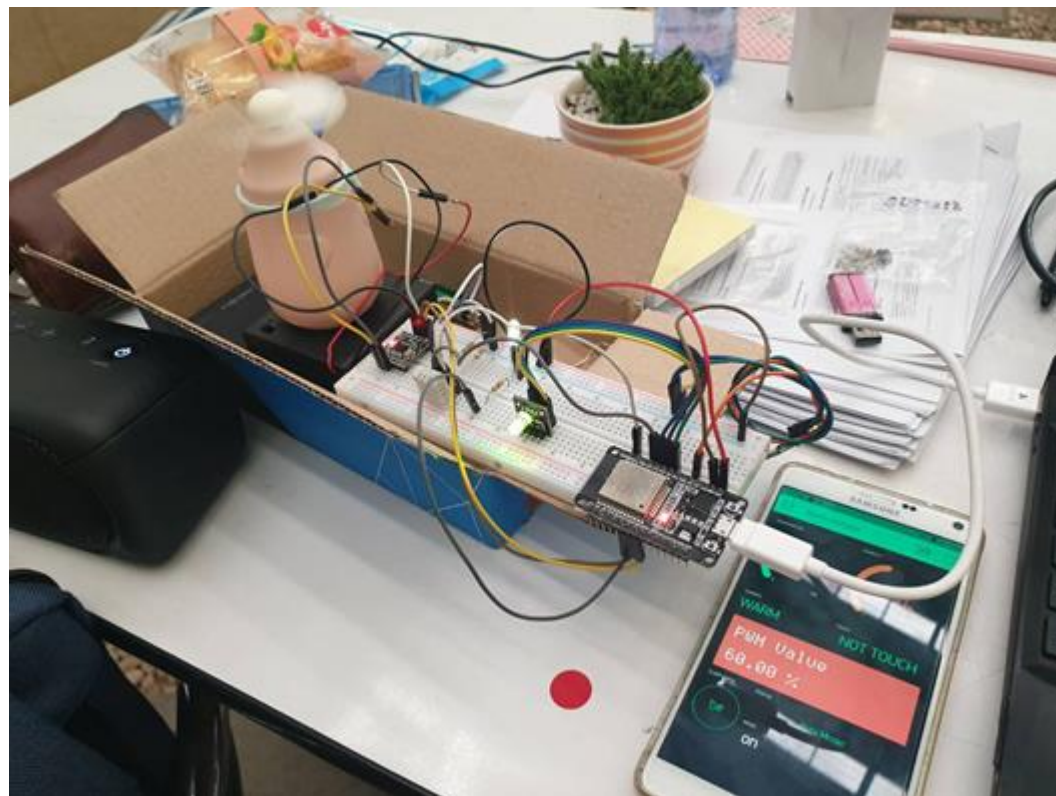


fritzing

Node-RED



Circuit in the real-world



Blynk

