Project Development Phase
Sprint-3

Date	07 November 2022
Team ID	PNT2022TMID20420
Project Name	Industry Specific-Intelligent Fire Management System
Maximum Marks	2

```
#define BLYNK_TEMPLATE_ID "TMPL-uhc59_T"
#define BLYNK_DEVICE_NAME "Fire alert"
#define BLYNK_AUTH_TOKEN "jkfkhu5fzDC9_PBdtssloT9OmXq3THwb"

#define BLYNK_FIRMWARE_VERSION        "0.1.0"

#define BLYNK_PRINT Serial
//#define BLYNK_DEBUG

#define APP_DEBUG

#include <ESP8266WiFi.h>
#include <BlynkSimpleEsp8266.h>

#include "DHT.h"
#define DHTPIN 5
#define DHTTYPE DHT22

DHT dht(DHTPIN, DHTTYPE);
char auth[]=BLYNK_AUTH_TOKEN;
char ssid[]="OPPO A52";
char pass[]="6380604277";
```

```
int Gas=A0;

int Flame=4;

int buzz=2;

int redLight=3;

int greenLight=4;

float sensorvalue;

int flamevalue;

void setup() {

    pinMode(Gas, INPUT);

    pinMode(Flame, INPUT);

    pinMode(buzz,OUTPUT);

    pinMode(redLight,OUTPUT);

    pinMode(greenLight,OUTPUT);

  Serial.begin(115200);

  Blynk.begin(auth,ssid,pass);

    dht.begin();

    }


void loop() {

     sensorvalue = analogRead(Gas);

     flamevalue= digitalRead(Flame);

    Blynk.run();

 Blynk.virtualWrite(V0,sensorvalue);

    Blynk.virtualWrite(V1,!(flamevalue));

    Serial.print("Gas value:");

    Serial.println(sensorvalue);

    Serial.print("flame state:");

    Serial.println(!(flamevalue));


    float h = dht.readHumidity();

  float t = dht.readTemperature();
```

```
if (isnan(h) || isnan(t)) {
  Serial.println("Failed to read from DHT sensor!");
  return;
}

Serial.print("Humidity: ");
Serial.print(h);
Serial.print(" %\t");
Serial.print("Temperature: ");
Serial.print(t);

  if(flamevalue==0){
      tone(buzz,1000,200);
      digitalWrite(redLight,HIGH);
      digitalWrite(greenLight,LOW);
  }
  else{
      noTone(buzz);
      digitalWrite(redLight,LOW);
     digitalWrite(greenLight,HIGH);
  }

  if(sensorvalue>500){
      tone(buzz,1000,200);
      digitalWrite(redLight,HIGH);
      digitalWrite(greenLight,LOW);
  }
  else{
       noTone(buzz);
      digitalWrite(redLight,LOW);
```

```
    digitalWrite(greenLight,HIGH);
}
}
```