Project Development Phase
Sprint-3

Date	7 November 2022
Team ID	PNT2022TMID24257
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;
```

```arduino
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);
}
```

}