Project Development Phase
Sprint-3

Date	7 November 2022
Team ID	PNT2022TMID24229
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(Flam
e, INPUT);
pinMode(buzz
,OUTPUT);
pinMode(redL
ight,OUTPUT);
pinMode(gree
nLight,OUTPU
T);
Serial.begin(1
15200);
Blynk.begin(a
uth,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);
}
}
```