Project Development Phase Sprint-4

| Date | 7 November 2022 |
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| Team ID | PNT2022TMID24229 |
| Project Name | Industry Specific-Intelligent Fire Management System |
| Maximum Marks | 2 |

#include<SoftwareSerial.h> #include<TinyGPS.h> SoftwareSerial gsm(7,8); #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(); gsm.begin(9600);
 }
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);
    gsm.println("AT+CMGF=1\r");
                                      delay(1000);
gsm.print("AT+CSMP=17,167,0,0\r");
                                         delay(1000);
gsm.println("AT+CMGS=\"+916380604277\"\r");//replace x by your number
    delay(1000);
gsm.write("Fire alert\n");
delay(100);
    gsm.write("location:Latitude:13.0663,Longitude:80.1112
current location: http://maps.google.com/maps?\&z=15\&mrt=yp\&t=k\&q=13.0663,80.1112"); \\
    delay(100);
gsm.println((char)26);
delay(1000);
 }
  else{
           noTone(buzz);
digitalWrite(redLight,LOW);
digitalWrite(greenLight,HIGH);
 }
```

```
if(sensorvalue>500){
tone(buzz,1000,200);
digitalWrite(redLight,HIGH);
digitalWrite(greenLight,LOW);
    gsm.println("AT+CMGF=1\r");
                                    delay(1000);
gsm.print("AT+CSMP=17,167,0,0\r");
                                       delay(1000);
gsm.println("AT+CMGS=\"+916380604277\"\r");//replace x by your number
    delay(1000);
                     gsm.write("Gas
has Leakead\n");
                     delay(100);
    gsm.write("location:Latitude:13.0663,Longitude:80.1112
currentlocation:http://maps.google.com/maps?&z=15&mrt=yp&t=k&q=13.0663,80.1112");
    delay(100);
gsm.println((char)26);
delay(1000);
 }
 else{
           noTone(buzz);
digitalWrite(redLight,LOW);
digitalWrite(greenLight,HIGH);
}
}
```