Project Development Phase Sprint-4

Date	7 November 2022
Team ID	PNT2022TMID24257
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";

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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));
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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
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);
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}
  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\"\");//replace\ x\ by\ your\ number
    delay(1000);
    gsm.write("Gas has Leakead\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);
```

}

}