PROJECT CODE

INDUSTRY-SPECIFIC INTELLIGENT FIRE MANAGEMENTSYSTEM

TEAM ID: PNT2022TMID53587

SOURCE CODE:

```
#define BLYNK TEMPLATE ID "TMPLqCSC89Q2"
#define BLYNK DEVICE NAME "Fire Detection"
#define BLYNK_AUTH_TOKEN "PxJ7MvV-hMXaEwKe39Lip9vLqZRNSCOX"
#define BLYNK PRINT Serial
#include <ESP8266WiFi.h>
#include<OneWire.h>
#include<DallasTemperature.h>
#include <BlynkSimpleEsp8266.h>
char auth[] = BLYNK_AUTH_TOKEN;
char ssid[] = "Nalayathiran"; // Change your Wifi/ Hotspot
Name char pass[] = "24092001"; // Change your Wifi/ Hotspot
Password
BlynkTimer timer;
#define fire D2
#define smoke A0
#define ONE_WIRE_BUS D4
#define GREEN D5
#define RED D6
```

```
#define buzzer D7
int fire_Val = 0;
int data = 0;
OneWire oneWire(ONE WIRE BUS);
DallasTemperature DS18B20(&oneWire);
float temp = 0;
WidgetLED led(V1);
void setup() //Setup function - only function that is run in deep sleep mode
  Serial.begin(9600); //Start the serial output at 9600 baud
  pinMode(GREEN, OUTPUT);
  pinMode(smoke,INPUT);
  pinMode(buzzer,OUTPUT);
  pinMode(fire, INPUT);
  pinMode(RED, OUTPUT);
  pinMode(buzzer, OUTPUT);
  pinMode(ONE WIRE BUS, INPUT);
  Blynk.begin(auth, ssid, pass);//Splash screen delay
  delay(2000);
 timer.setInterval(500L, mySensor);
void loop() //Loop function
  Blynk.run();
 timer.run();
void mySensor()
 fire_Val = digitalRead(fire);
  data = analogRead(smoke);
    Blynk.virtualWrite(V2,data);
 DS18B20.requestTemperatures();
```

```
temp = DS18B20.getTempCByIndex(0);
  Blynk.virtualWrite(V3,temp);
if ((fire_Val == HIGH)||(data > 500)||(temp > 35))
  Blynk.logEvent("fire_alert");
  digitalWrite(GREEN, LOW);
  digitalWrite(RED, HIGH);
  tone(buzzer, 1000);
  Blynk.virtualWrite(V0, 1);
  Serial.print("fIRE Level: ");
  Serial.println(fire Val);
  Serial.write("fire detected");
  led.on();
}
else
  digitalWrite(GREEN, HIGH);
  digitalWrite(RED, LOW);
  noTone(buzzer);
  Blynk.virtualWrite(V0, 0);
  Serial.print("fIRE Level: ");
  Serial.println(fire_Val);
  led.off();
  Serial.write("no fire detected");
  Serial.println(data);
  Serial.println(temp);
}
```