# **WOKWI PROJECT**

# **WOKWI SIMULATOR LINK:**

https://wokwi.com/projects/348747198417076820

### NODE-RED DASHBOARD UI LINK:

https://node-red-dashboard059.eugb.mybluemix.net/ui/#!/0?socketid=Dsj\_6KQ1Dt6bk-4LAAAW

# **WEB PAGE LINK:**

https://node-red-dashboard059.eu-gb.mybluemix.net/fire

# **DEMO VIDEO LINK**

https://drive.google.com/file/d/1IbplYchrteoFjz93-OfnadJ7oeakhBL0/view?usp=sharing

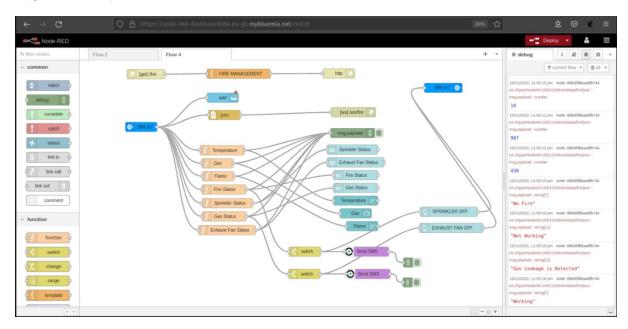
# PREVIEW:

#### **WOKWI SIMULATOR:**

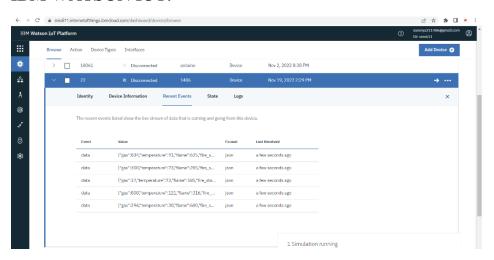
```
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WOKWÎ ☐ SAVE SHARE © esp32-dht22.ino ♪
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   esp32-dht22.ino diagram json libranes bt Library Manager ▼

1 #include <time.h>
2 #include <time.h>
3 #include <\text{CybsubClient.h}>
                                                                                                                                                     Simulation
                                                                                                                                                                                                                                                                      Ō00:14.117 €100%
             #define ORG "sms611"
#define DEVICE_TYPE "1406"
#define DEVICE_ID "22"
#define TOKEN "123456789"
                                                                                                                                                 Connecting to Wifi...WiFi connected, IP address: 10.10.0.2
                                                                                                                                                 Reconnecting MQTT client to sms611.messaging.internetofthings.ibmcloud.com
             char server[] = ORG ".messaging.internetofthings.ibmcloud.com";
char publishTopic[] = "iot-z/evt/data/fmt/jsom";
char autHmethod[] = "use-token-auth";
char token[] = "USEH];
char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;
                                                                                                                                                 Publish OK
                                                                                                                                                 Publish OK
              WiFiClient wifiClient;
PubSubClient client(server, 1883, wifiClient);
                                                                                                                                                 Publish OK
                                                                                                                                                 Publish OK
              float temperature = 0;
int gas = 0;
int flame = 0;
                                                                                                                                                 Publish OK
                                                                                                                                                 Publish OK
                                                                                                                                                 Publish OK
              string flame_status = "";
string Gas_status = "";
string exhaust_fan_status = "";
string sprinkler_status = "";
                                                                                                                                                 Publish OK
                                                                                                                                                 Publish OK
             void setup() {
   Serial.begin(99900);
   wifiConnect();
   mqttConnect();
}
                                                                                                                                                                                                                                                                             35 void loop() {
```

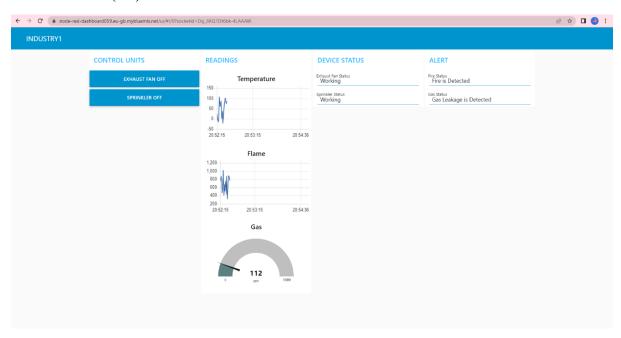
# NODE RED:



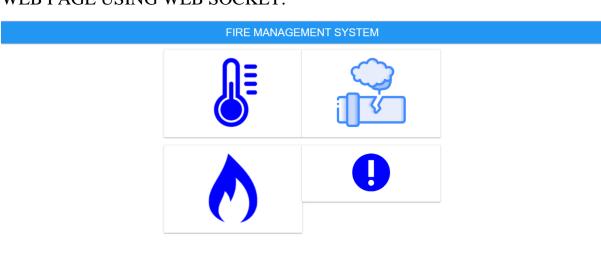
# **IBM WATSON IOT:**



# NODE RED (UI):



# WEB PAGE USING WEB SOCKET:



# SMS ALERT:

