

Project name

Industry specific intelligent fire management system

Assignment

4

Wowki link: <https://wokwi.com/projects/345395196387656275>

WOKWI

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Docs

sketch.ino diagram.json libraries.txt Library Manager

```
1 #include <WiFi.h> // library for wifi
2 #include <PubSubClient.h> // library for MQTT
3 #include "DHT.h" // Library for dht11
4 #define DHTPIN 15 // what pin we're connected to
5 #define DHTTYPE DHT22 // define type of sensor DHT 11
6 #define LED 2
7
8 DHT dht (DHTPIN, DHTTYPE); // creating the instance by passing pin and type of
9
10 void callback(char* subscribetopic, byte* payload, unsigned int payloadLength)
11
12 //-----credentials of IBM Accounts-----
13
14 #define ORG "abfj7x" // IBM ORGANIZATION ID
15 #define DEVICE_TYPE "abcd" // Device type mentioned in IBM Watson IoT Platform
16 #define DEVICE_ID "12345" // Device ID mentioned in IBM Watson IoT Platform
17 #define TOKEN "12345678" // Token
18 String data3;
19 float h, t;
20
21
22 //-----Customise the above values -----
23 char server[] = ORG ".messaging.internetofthings.ibmcloud.com"; // Server Name
24 char publishTopic[] = "iot-2/evt/Data/fmt/json"; // topic name and type of event
25 char subscribetopic[] = "iot-2/cmd/command/fmt/String"; // cmd REPRESENT command
26 char authMethod[] = "use-token-auth"; // authentication method
27 char token[] = TOKEN;
28 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID; // client id
29
30
```

Simulation

01:52.892 99%

ESP32

DHT22

Publish ok
temp:24.00
Humid:40.00
Sending payload: {"temp":24.00,"Humid":40.00}
Publish ok
Reconnecting client to abfj7x.messaging.internetofthings.ibmcloud.com
.....

IBM Watson IoT Platform

prasanjanjr@gmail.com
ID: abfj7x

Browse Action Device Types Interfaces

Add Device

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	abcd	Device	Nov 16, 2022 1:36 PM

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
Data	{"temp":24,"Humid":40}	json	a few seconds ago
Data	{"temp":24,"Humid":40}	json	a few seconds ago
Data	{"temp":24,"Humid":40}	json	a few seconds ago
Data	{"temp":24,"Humid":40}	json	a few seconds ago
Data	{"temp":24,"Humid":40}	json	a few seconds ago