

## Project development phase-sprint 2

Date	18 NOVEMBER 2022
Team ID	PNT2022TMID40881
Project Name	Industry-specific intelligent fire management system

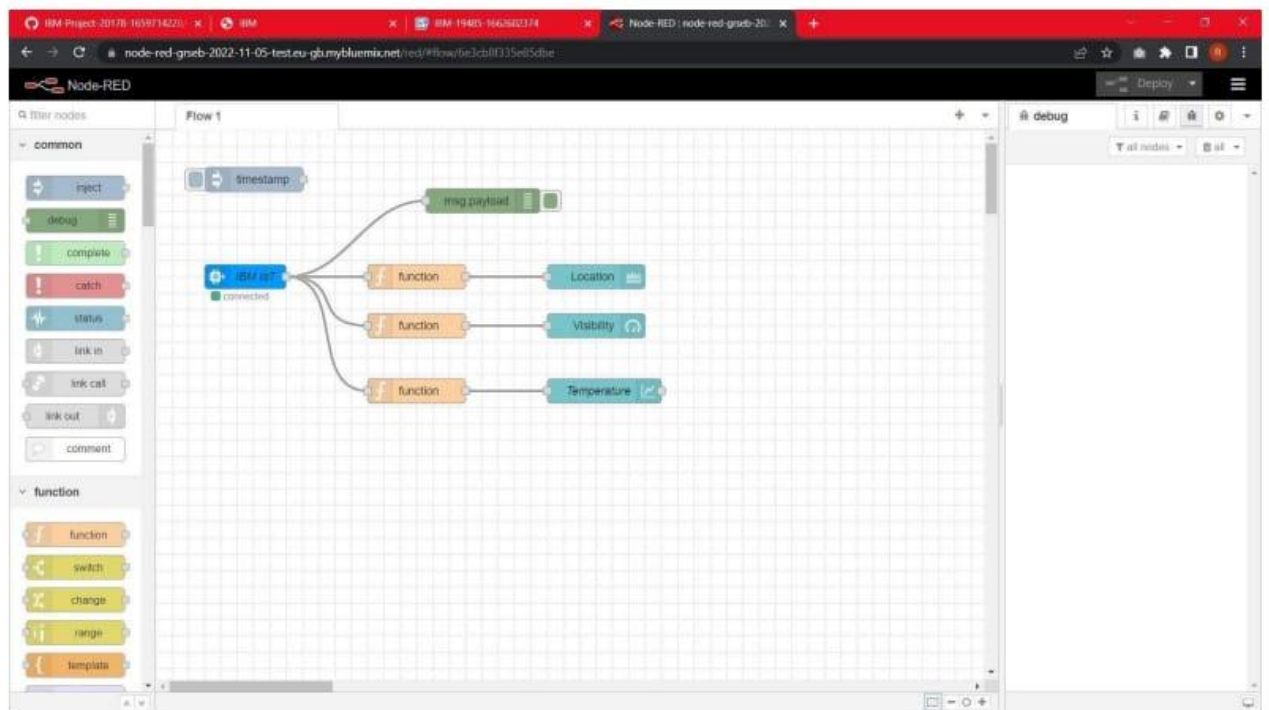
### IMAGES OF IBM CLOUD:

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes a 'Back' button and a user profile for 'nikeshmi36@gmail.com'. The main content area is titled 'Device Drilldown - 12'. On the left, a sidebar menu lists various options: Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The 'Connection Information' section is active, showing details for device ID 12, including its type (abcd), date added (16 Nov 2022 13:02), added by (nikeshmi36@gmail.com), and connection status (Disconnected). Below this, the 'Recent Events' section shows a table of data points with columns for Event, Value, Format, and Last Received. A status box at the bottom right indicates '0 Simulations running'.

Event	Value	Format	Last Received
Data	(*temp*:23.99)	json	a few seconds ago
Data	(*temp*:23.99)	json	a few seconds ago
Data	(*temp*:23.99)	json	a few seconds ago
Data	(*temp*:23.99)	json	a few seconds ago
Data	(*temp*:23.99)	json	a few seconds ago

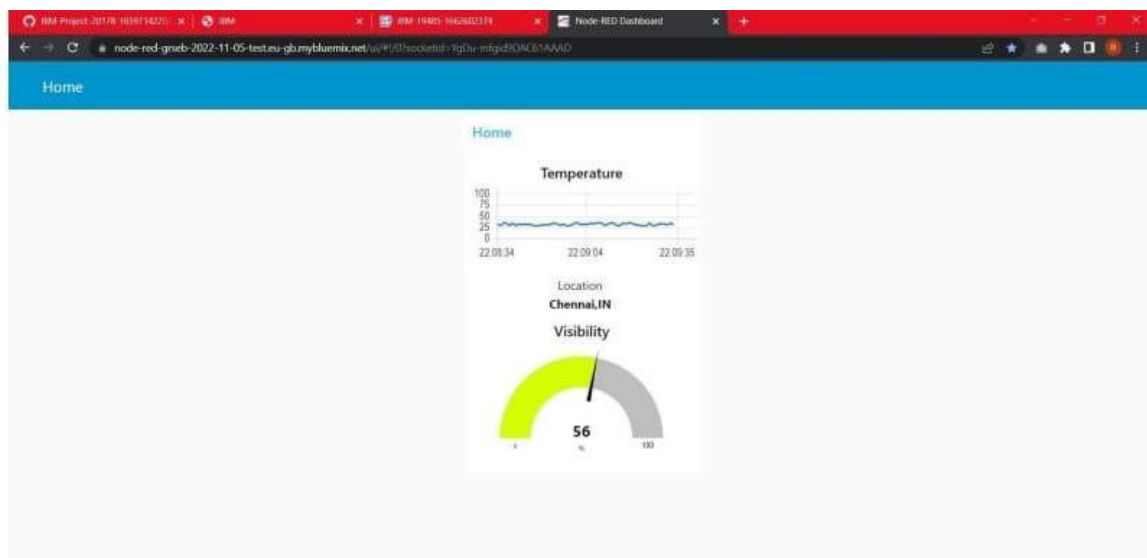
The screenshot shows the Node-RED website landing page. The header features the 'Node-RED' logo and the tagline 'Flow-based programming for the Internet of Things'. The main content area includes a paragraph describing Node-RED as a programming tool for wiring together hardware devices, APIs, and online services. It also mentions that this instance is running as an IBM Cloud application. A prominent button labeled 'Go to your Node-RED flow editor' is visible, along with a link to 'Learn how to customise Node-RED'. The footer provides more information about Node-RED and a link to the official website, nodered.org.

## CREATE NODE-RED SERVICE



Signs with smart connectivity for better read

TEAM ID : PNT2022TMID40881



WOKWI

SAVE

SHARE

NikeshDhinesh

Docs

sketch.ino

diagram.json

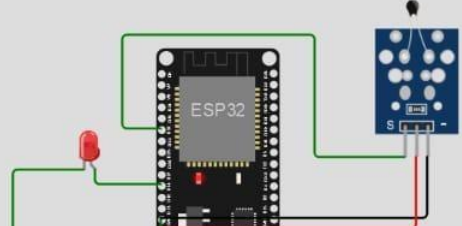
libraries.txt

Library Manager

```
1 #include <WiFi.h>
2 #include <PubSubClient.h>
3 void callback(char* subscribetopic,byte* payload,unsigned int payloadLength)
4 #define ORG "In588q"
5 #define DEVICE_TYPE "abcd"
6 #define DEVICE_ID "12"
7 #define TOKEN "12345678"
8 String data3;
9
10 char server[] = ORG ".messaging.internetofthings.ibmcloud.com";
11 char publishTopic[] = "iot-2/evt/Data/fmt/json";
12 char subscribeTopic[] = "iot-2/cmd/test/fmt/String";
13 char authMethod[] = "use-token-auth";
14 char token[] = TOKEN;
15 char clientID[] = "d:" + ORG + ":" + DEVICE_TYPE + ":" + DEVICE_ID;
16
17 WiFiClient wificlient;
18 PubSubClient client(server,1883,callback,wificlient);
19
20 void setup() {
21   Serial.begin(9600);
22   analogReadResolution(10);
23   pinMode(32,INPUT);
24   pinMode(14,OUTPUT);
25
26   wificlient.connect();
27   client.connect();
28
29 }
30 void loop() {
```

Simulation

03:32.942 30%



publish ok  
Temperature: 23.99 °C  
Sending payload:{"temp":23.99}  
publish ok  
Temperature: 23.99 °C  
Sending payload:{"temp":23.99}  
publish ok