

Project Development Phase Sprint -1

Team ID	PNT2022TMID33212
Project Name	Signs with Smart Connectivity For Better Road Safety

Wowki Simulation:

<https://wokwi.com/projects/348592973152256594>

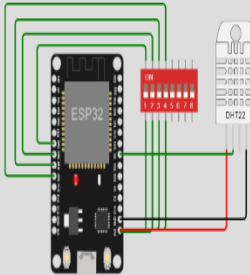
sketch.ino diagram.json libraries.txt Library Manager

```
1 #include <WiFi.h>//library for wifi
2 #include <PubSubClient.h>//library for MQTT
3 #include "DHT.h"// Library for dht11
4 #define DHTPIN 5    // what pin we're connected to
5 #define DHTTYPE DHT22 // define type of sensor DHT 11
6
7 DHT dht (DHTPIN, DHTTYPE);// creating the instance by passing pin and type
8
9 void callback(char* subscribetopic, byte* payload, unsigned int payloadLength) {
10
11 //-----credentials of IBM Accounts-----
12
13 #define ORG "3n45bc"//IBM ORGANITION ID
14 #define DEVICE_TYPE "98nivetha"//Device type mentioned in ibm watson IOT
15 #define DEVICE_ID "98nivethaid"//Device ID mentioned in ibm watson IOT Platform
16 #define TOKEN "gTlxIHvLO5MH)D?IfX" //Token
17 String data3;
18 float h, t;
19
20
21 //----- Customise the above values -----
22 char server[] = ORG ".messaging.internetofthings.ibmcloud.com";// Server address
23 char publishTopic[] = "iot-2/evt/Data/fmt/json";// topic name and type of data
24 char subscribetopic[] = "iot-2/cmd/command/fmt/String";// cmd REPRESENTATION
25 char authMethod[] = "use-token-auth";// authentication method
26 char token[] = TOKEN;
27 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;//client id
```

Simulation

00:04.917 99%

Restart the simulation



Publish ok

temp:24.00

humidity:40.00

Sending payload:

{"temp":24.00,"humidity":40.00,"North":0,"South":0,"East":0,"West":0}

Publish ok

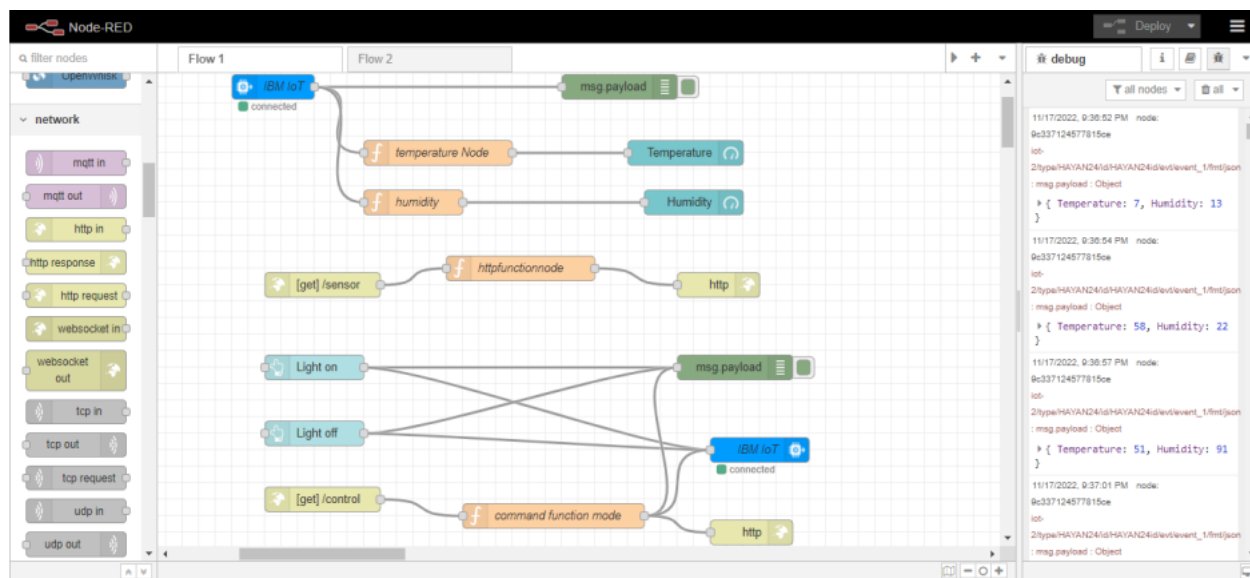
IoT Device- IoT Plat form

The screenshot shows a web interface for an IoT platform. On the left is a dark sidebar with icons for users, a person, a network, a signal, a lock, and a gear. The main area has a tabbed interface with 'Identity', 'Device Information', 'Recent Events' (selected), 'State', and 'Logs'. Below the tabs, a message states: 'The recent events listed show the live stream of data that is coming and going from this device.' A table displays the following data:

Event	Value	Format	Last Received
event_1	{"Temperature":65,"Humidity":97,"North":16,"So...	json	a few seconds ago
event_1	{"Temperature":53,"Humidity":95,"North":67,"So...	json	a few seconds ago
event_1	{"Temperature":22,"Humidity":42,"North":83,"So...	json	a few seconds ago
event_1	{"Temperature":5,"Humidity":13,"North":22,"Sou...	json	a few seconds ago
event_1	{"Temperature":85,"Humidity":78,"North":...		

At the bottom right, a status indicator shows '1 Simulation running'.

Node Red:



Node Red Web UI:

