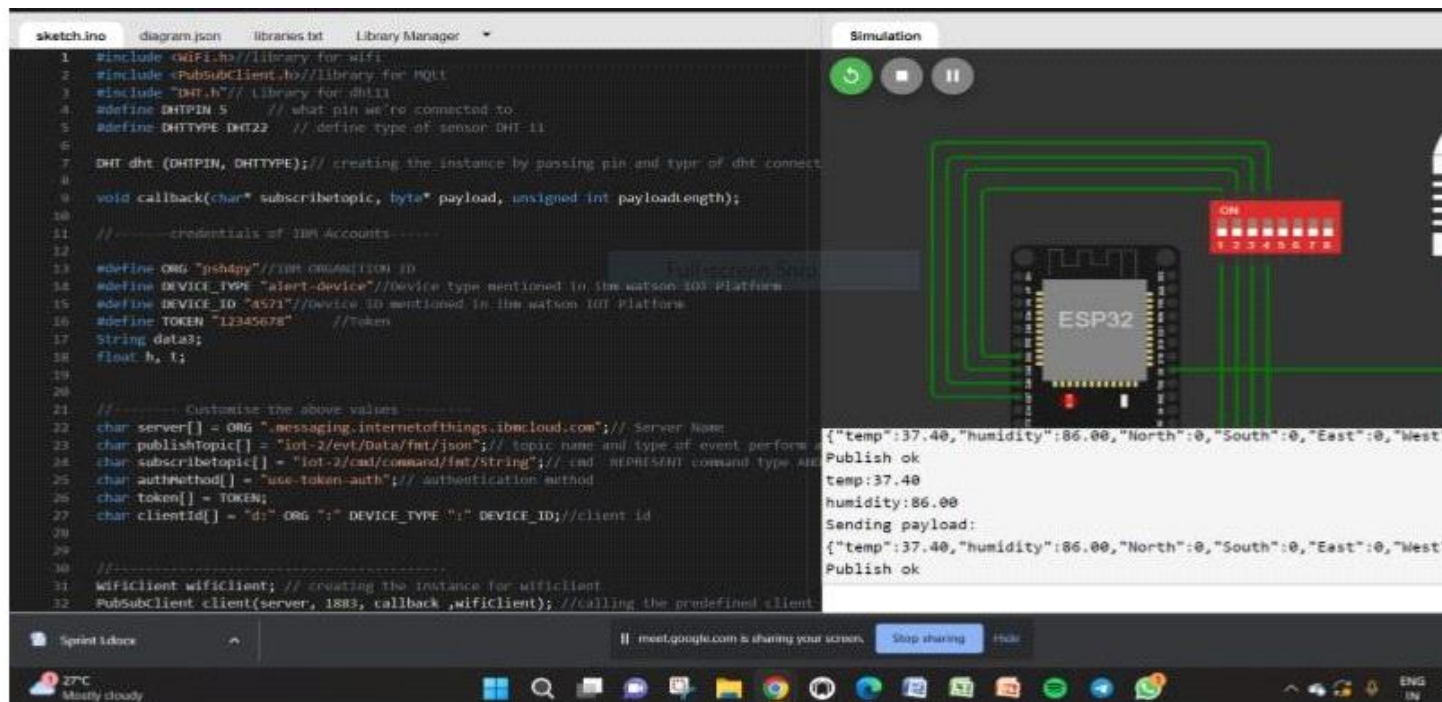


sprint 1

Date	7november2022
TeamID	PNT2022TMID41853
ProjectName	Signs with Smart Connectivity for Better Road Safety

WokwiSimulation:[Adhifinal_iot.ino-WokwiArduino andESP32Simulator](#)



IoTDevice-IoTPlatform

4571

Connected

alert-device

Device

Identity

Device Information

Recent Events

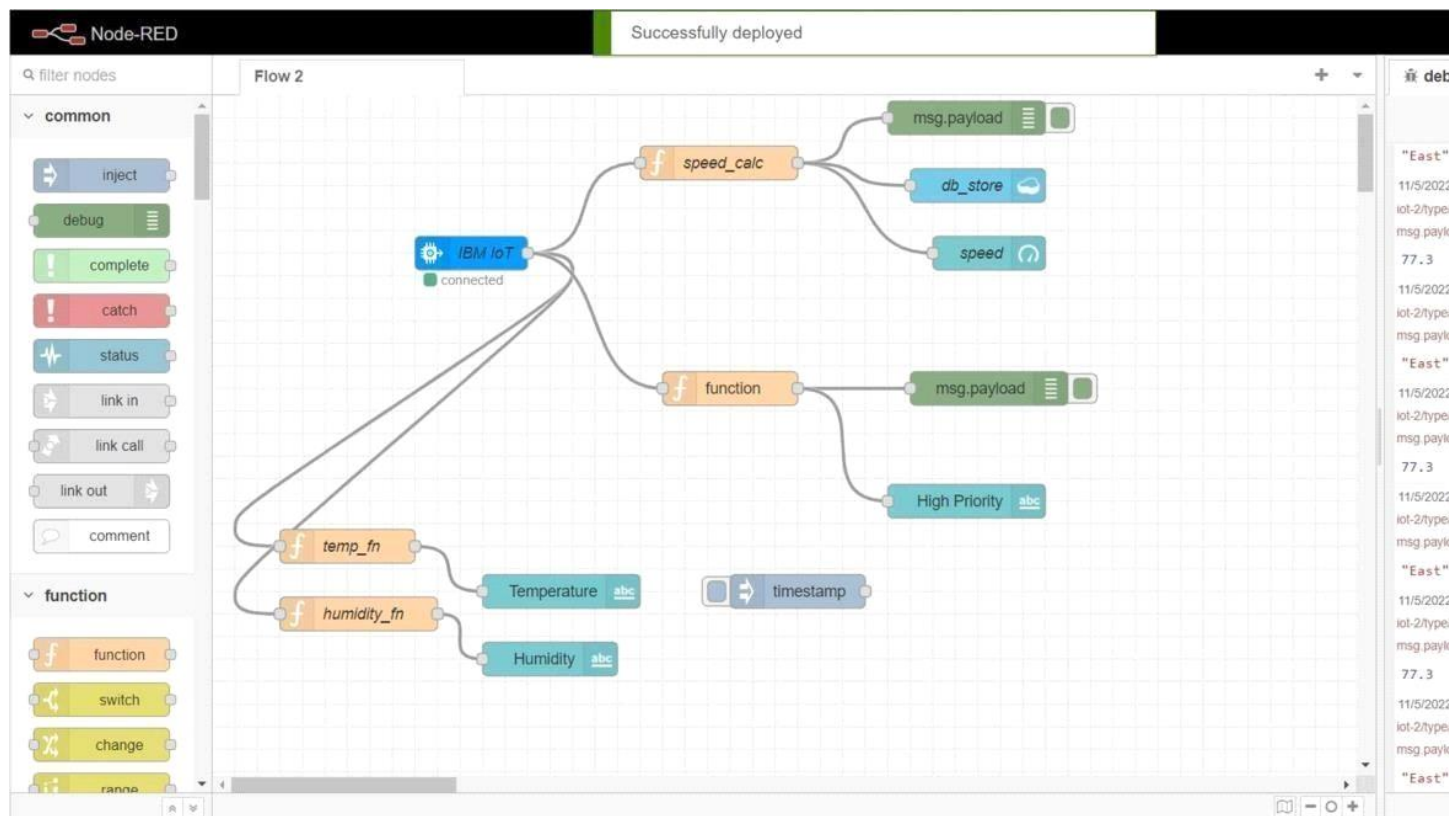
State

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":23.4,"humidity":63,"North":1,"South":0,...	json	a few seconds ago
Data	{"temp":23.4,"humidity":63,"North":1,"South":0,...	json	a few seconds ago
Data	{"temp":23.4,"humidity":63,"North":1,"South":0,...	json	a few seconds ago

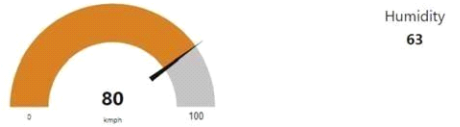
NodeRed



NodeRed WebUI

Speed Limit

Speed Limit	Temperature
	23.4



Environment Data High Priority Vehicle Direction

Temperature High Priority

23.4 Towards North

63

High Priority Vehicle Direction

High Priority

Towards North

The screenshot displays the final IoTino simulation interface, which is divided into several sections:

- Speed Limit:** A semi-circular gauge with a yellow-to-grey gradient. The needle points to 69.7 km/h. The scale ranges from 0 to 100 km/h.
- Environment Data:** A section showing real-time sensor data:
 - Temperature: 14.7
 - Humidity: 88
- High Priority Vehicle Direction:** A text display showing "High Priority Towards East".
- Simulation Panel:** On the right, there's a "Simulation" window showing a circuit diagram of an ESP32 microcontroller connected to a DHT22 sensor. Below the diagram, the code editor shows the following code:


```

1 #include <DHT.h>
2 #include <WiFi.h>
3 #include <WebServer.h>
4 #define DHTPIN 4
5 #define DHTTYPE DHT22
6
7 DHT dht(DHTPIN, DHTTYPE);
8
9 void setup() {
10   // Serial.begin(115200);
11   // Serial.println("Starting...");
12   // pinMode(LED_BUILTIN, OUTPUT);
13   #define LED_BUILTIN 17
14   #define LED_PIN 17
15   #define LED_ON digitalWrite(LED_PIN, HIGH);
16   #define LED_OFF digitalWrite(LED_PIN, LOW);
17   pinMode(LED_BUILTIN, OUTPUT);
18   fl...
19
20   {"temp":14.70,"humidity":88.00,"North":0,"South":0,"East":1,"West":0}
21   Publish ok
22   temp:14.70
23   humidity:88.00
24   Sending payload:
25   {"temp":14.70,"humidity":88.00,"North":0,"South":0,"East":1,"West":0}
26   Publish ok
27
28
```

Home

Speed Limit

Speed Limit

70.5

0100

kmph

Environment Data

Temperature

15.5

Humidity

91.5

High Priority Vehicle Direction

High Priority

Towards South

WOKWI

SAVE

SHARE

final_iotino

SIGN

sketch.ino

Simulation

diagram.json

libraries.txt

Library Manager

Editing DHT22

Temperature: 15.5°C

Humidity: 91.5%

1 #I

2 #I

3 #T

4 #d

5 #d

6

7 DH

8

9 vo

10

11 //

12

13 #d

14 #d

15 #d

16 #d

17 St

18 fl

19

20

21 //

22 temp:15.50

23 ch

24 ch

25 ch

26 ch

27 ch

28

ESP32

DHT22

1 2 3 4 5 6 7 8

ON

15.50

91.50

0

1

0

0

temp:15.50

humidity:91.50

Sending payload:

15.50

91.50

0

1

0

0

15.50

91.50

0

1

0

0

15.50

91.50

0

1

0

0

15.50

91.50

0

1

0

0

15.50

91.50

0

1

0

0