

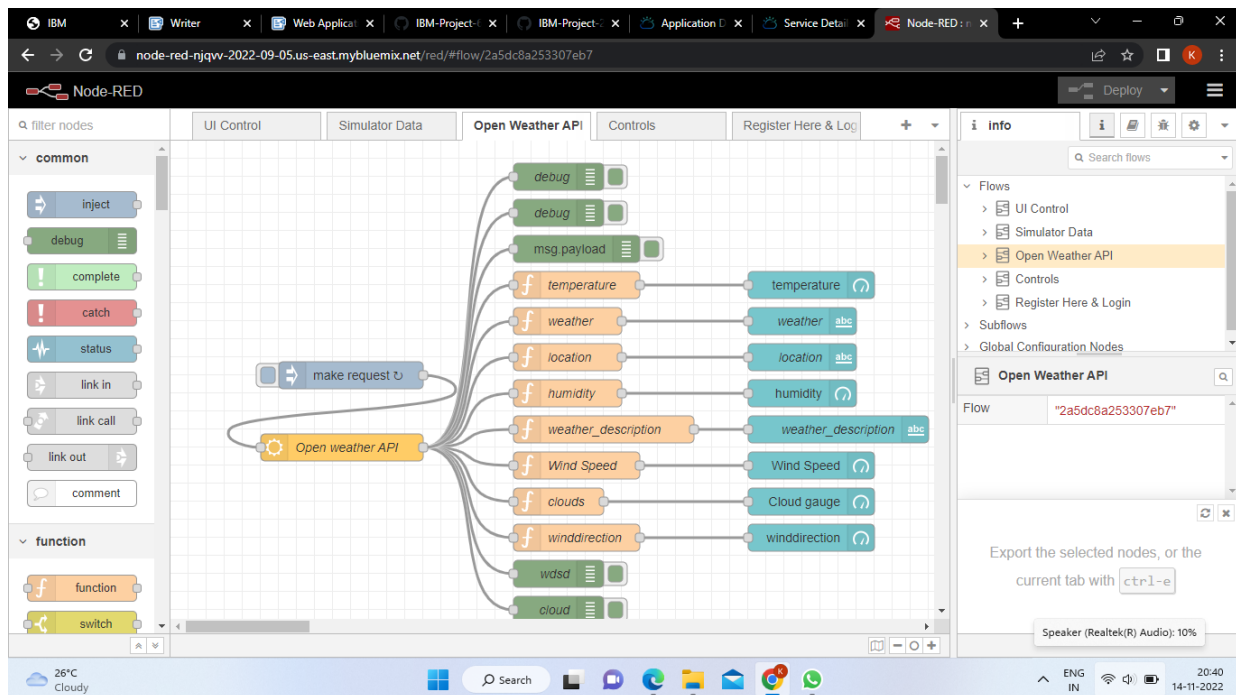
Project Development Phase

Sprint-4

Web Application Open Weather API Data Testing

Date	15 November 2022
Team ID	PNT2022TMID22317
Project Name	Smart Farmer IOT Enabled Smart Farming Application

Node-RED Flows For open Weather API



After Inject the Open Weather API Data's Will Shown in the Node-RED Debug

Node-RED interface showing the initial state of the Open Weather API flow. The flow starts with a 'make request' node connected to an 'Open weather API' node. This node branches into several 'f' (function) nodes: temperature, weather, location, humidity, weather_description, Wind Speed, clouds, winddirection, wdsd, and cloud. Each 'f' node is connected to a corresponding output node (e.g., temperature, weather, location, humidity, weather_description, Wind Speed, Cloud gauge, winddirection, wdsd, cloud). The 'debug' node is also connected to the 'Open weather API' node. The right sidebar shows the debug console with a message from the 'Open weather API' node.

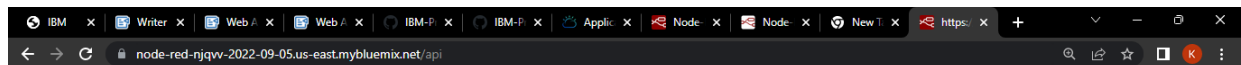
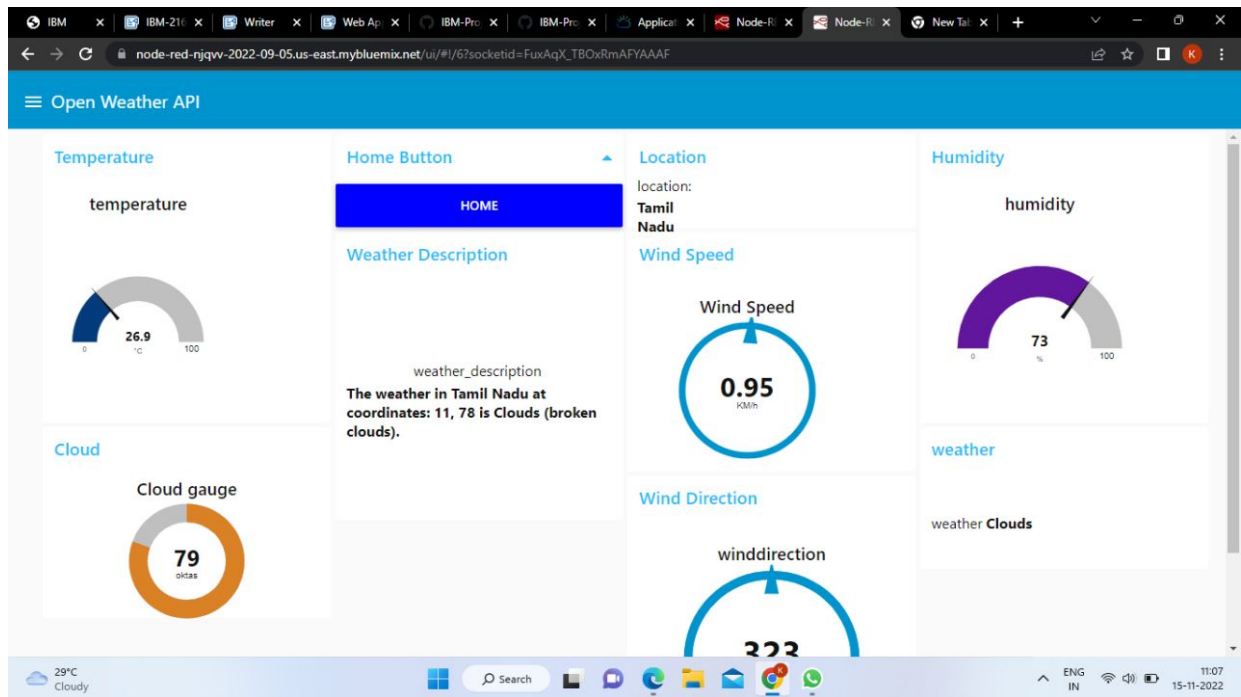
```
11/15/2022, 10:02:01 AM node: cloud
msg.payload.clouds: number
74

11/15/2022, 10:02:02 AM node: 0fb3b65e643bdc49
msg.payload: Object
{ id: 803, weather: "Clouds",
  detail: "broken clouds", icon: "04d",
  tempk: 298.73 ... }
```

Node-RED interface showing the Open Weather API flow after data injection. The flow is identical to the first image, but the 'debug' node is now connected to the 'weather' function node. The right sidebar shows the debug console with a message from the 'weather' node.

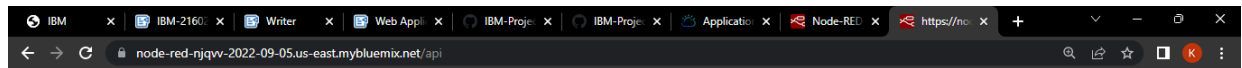
```
11/15/2022, 10:15:51 AM node: 0fb3b65e643bdc49
msg.payload: Object
object
id: 803
weather: "Clouds"
detail: "broken clouds"
icon: "04d"
tempk: 300.11
tempc: 26.9
temp_maxc: 26.9
temp_minc: 26.9
humidity: 73
pressure: 1015
maxtemp: 300.11
mintemp: 300.11
windspeed: 0.95
winddirection: 323
location: "Tamil Nadu"
sunrise: 1668473035
sunset: 1668514882
clouds: 79
description: "The weather in Tamil Nadu at"
```

Press Open Weather API Comment will send to Node-RED



```
{"tempc":27.9,"humidity":68,"location":"Tamil Nadu","windspeed":0.61,"clouds":82,"winddirection":55,"weather description":"The weather in Tamil Nadu at coordinates: 11, 78 is Clouds (broken clouds)."} 
```





```
{"tempc":26.9,"humidity":73,"location":"Tamil  
Nadu","windspeed":0.95,"clouds":79,"winddirection":323,"weath  
er description":"The weather in Tamil Nadu at coordinates:  
11, 78 is Clouds (broken clouds)."} }
```

