

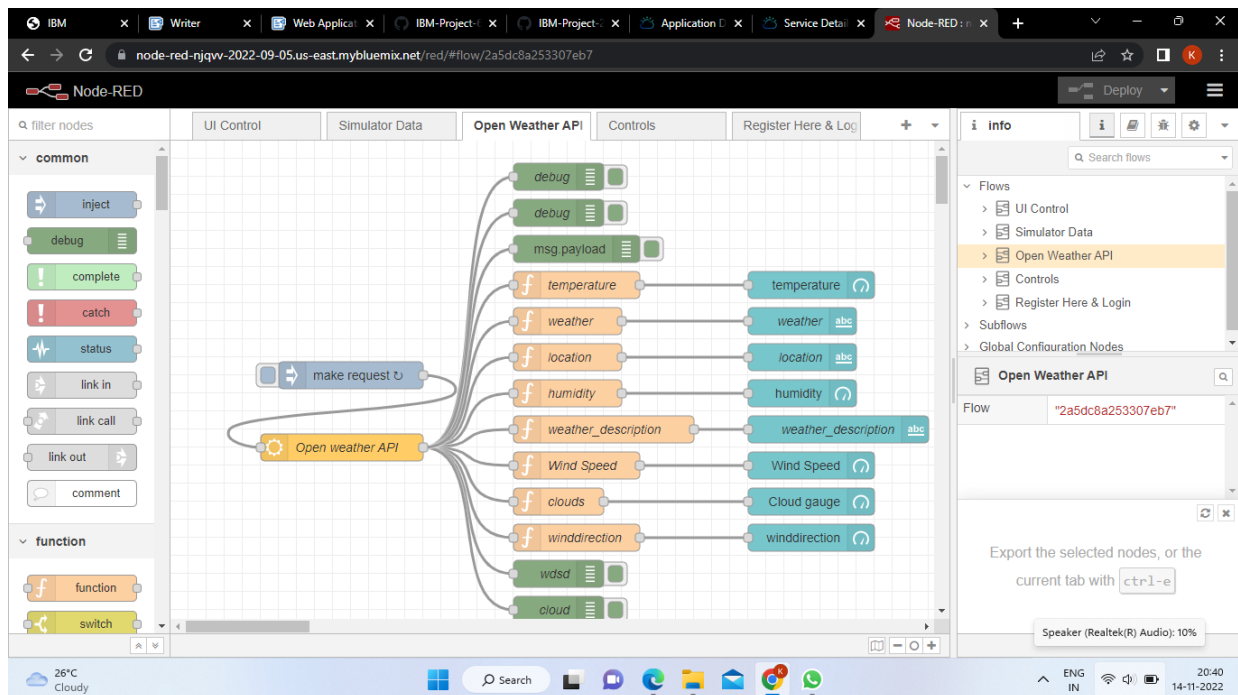
Project Development Phase

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

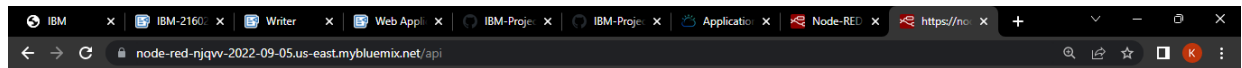


After Inject the Open Weather API Data's Will Shown in the Node-RED Debug

The Node-RED interface displays a flow for fetching weather data from the Open Weather API. The flow starts with a 'make request' node connected to an 'Open weather API' node. This node branches into several function nodes: 'temperature', 'weather', 'location', 'humidity', 'weather_description', 'Wind Speed', 'clouds', 'winddirection', 'wdsd', and 'cloud'. Each function node is connected to a corresponding output node (e.g., 'temperature' to 'temperature', 'weather' to 'weather', etc.). The 'debug' node is highlighted in the top right. The bottom right shows the initial debug console output, which is empty.

The Node-RED interface displays the same flow as in the previous image, but the 'debug' node is now showing a detailed JSON object representing the weather data for Tamil Nadu. The data includes fields like 'id', 'weather', 'detail', 'icon', 'tempc', 'temp_maxc', 'temp_minc', 'humidity', 'pressure', 'maxtemp', 'mintemp', 'windspeed', 'winddirection', 'location', 'sunrise', 'sunset', and 'clouds'.

```
11/15/2022, 10:15:51 AM node: 0fb3b65e643bdc49
msg.payload: Object
  object
    id: 803
    weather: "Clouds"
    detail: "broken clouds"
    icon: "04d"
    tempc: 300.11
    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
```



```
{"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)."}}
```

