

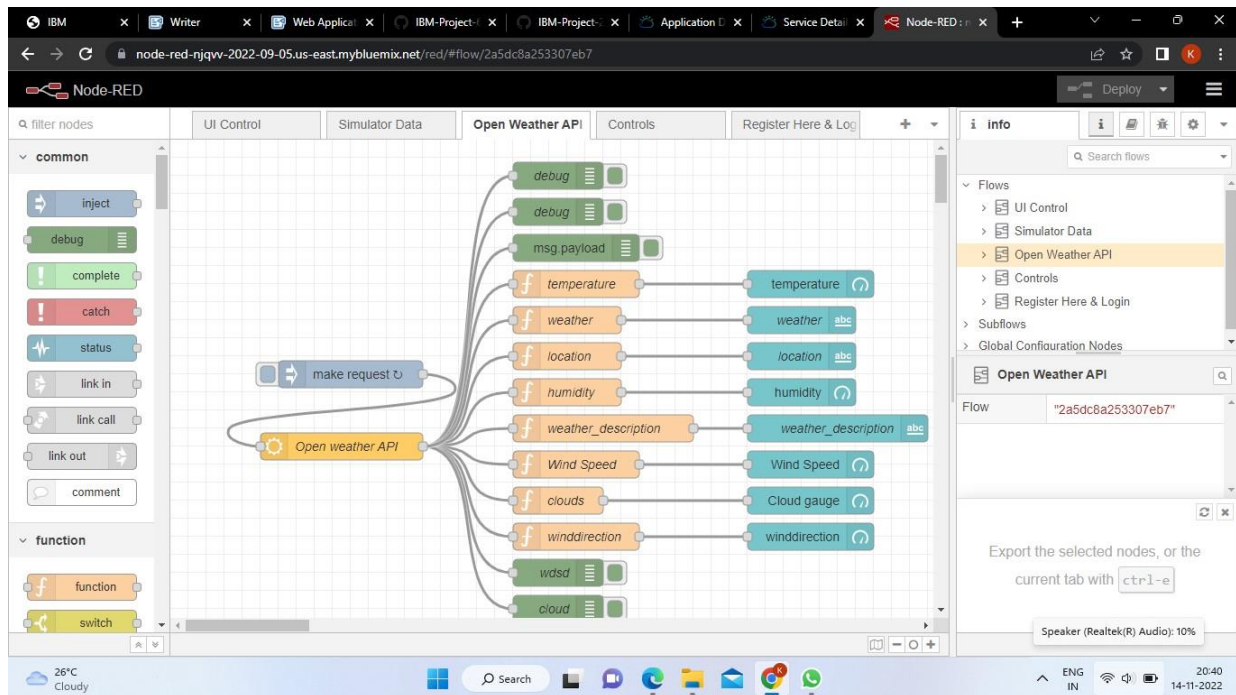
Project Development Phase

Sprint-4

Web Application Open Weather API Data Testing

Date	20-11-2022
Team ID	PNT2022TMID16804
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 screenshot shows the Node-RED web interface in a browser. The flow is titled "Open Weather API". It starts with a "make request" node connected to an "Open weather API" node. The output of the API node is split into multiple parallel processing nodes: "debug", "msg payload", "temperature", "weather", "location", "humidity", "weather_description", "Wind Speed", "clouds", "winddirection", "wdsd", and "cloud". Each of these nodes is connected to a corresponding output node (e.g., "temperature" to "temperature", "weather" to "weather", etc.). The "debug" node is highlighted with a dashed orange border. The right-hand "debug" console shows the following log entries:

```
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 ... }

11/15/2022, 10:02:02 AM node: debug
msg payload description : string[75]
"The weather in Tamil Nadu at
coordinates: 11, 78 is Clouds (broken
clouds)."
```

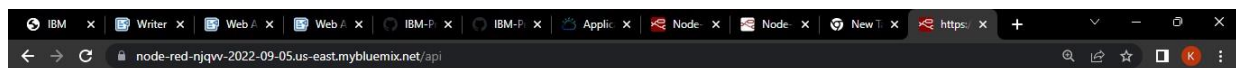
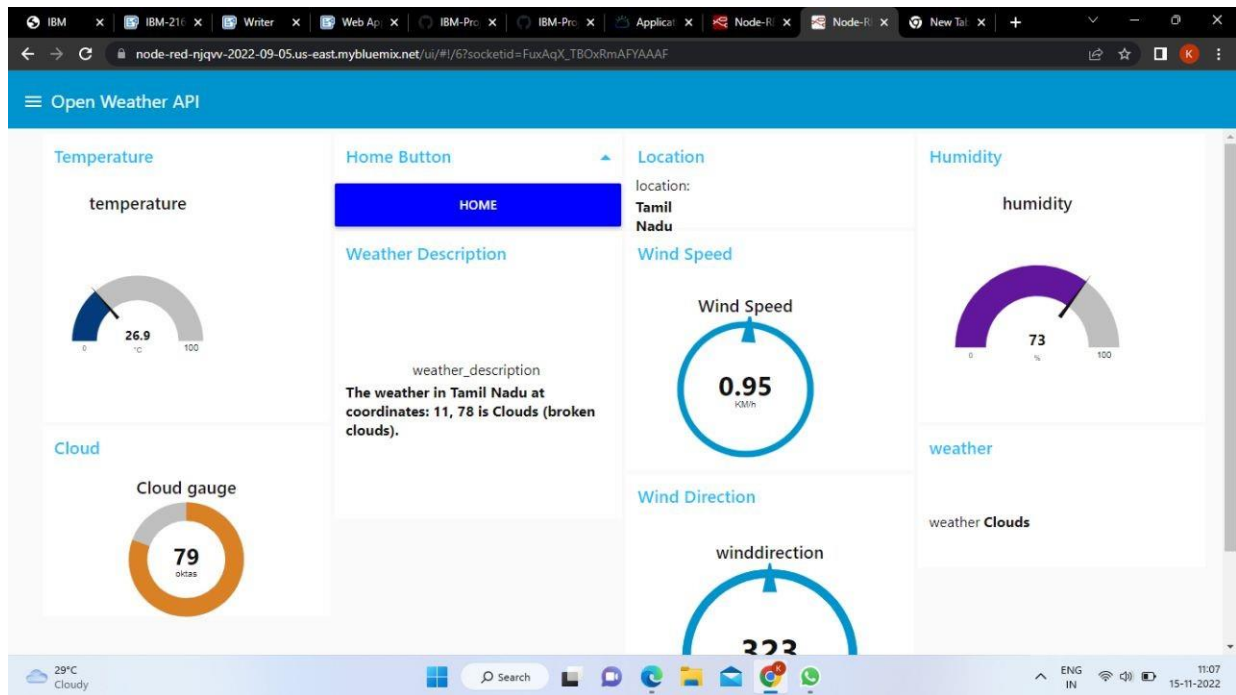
The bottom status bar shows the system temperature as 28°C Cloudy.

This screenshot shows the same Node-RED flow as the first image, but with a different output in the debug console. The "msg payload" node is now selected, and the console displays a detailed JSON object:

```
11/15/2022, 10:15:51 AM node: 0fb3b65e643bdc49
msg payload : 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"
```

The bottom status bar shows the system temperature as 28°C Humid.

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)."} 
```



