

- 
- The background of the slide features abstract, overlapping green geometric shapes in various shades of green, creating a modern and dynamic look.
- ▶ SPRINT 2 REPORT
  - ▶ SMARTFARMER – IoT ENABLED SMART FARMING APPLICATION

**TEAM ID – PNT2022TMID22142**

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## Project Tracker

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date (Planned)</b>	<b>Story Points Completed (as on Planned End Date)</b>	<b>Sprint Release Date (Actual)</b>
Sprint-1	15	5 Days	26 Oct 2022	30 Oct 2022	15	30 Oct 2022
Sprint-2	15	7 Days	31 Oct 2022	06 Nov 2022	15	07 Nov 2022
Sprint-3	15	6 Days	07 Nov 2022	12 Nov 2022		13 Nov 2022
Sprint-4	15	6 Days	13 Nov 2022	18 Nov 2022		18 Nov 2022 – 19 Nov 2022

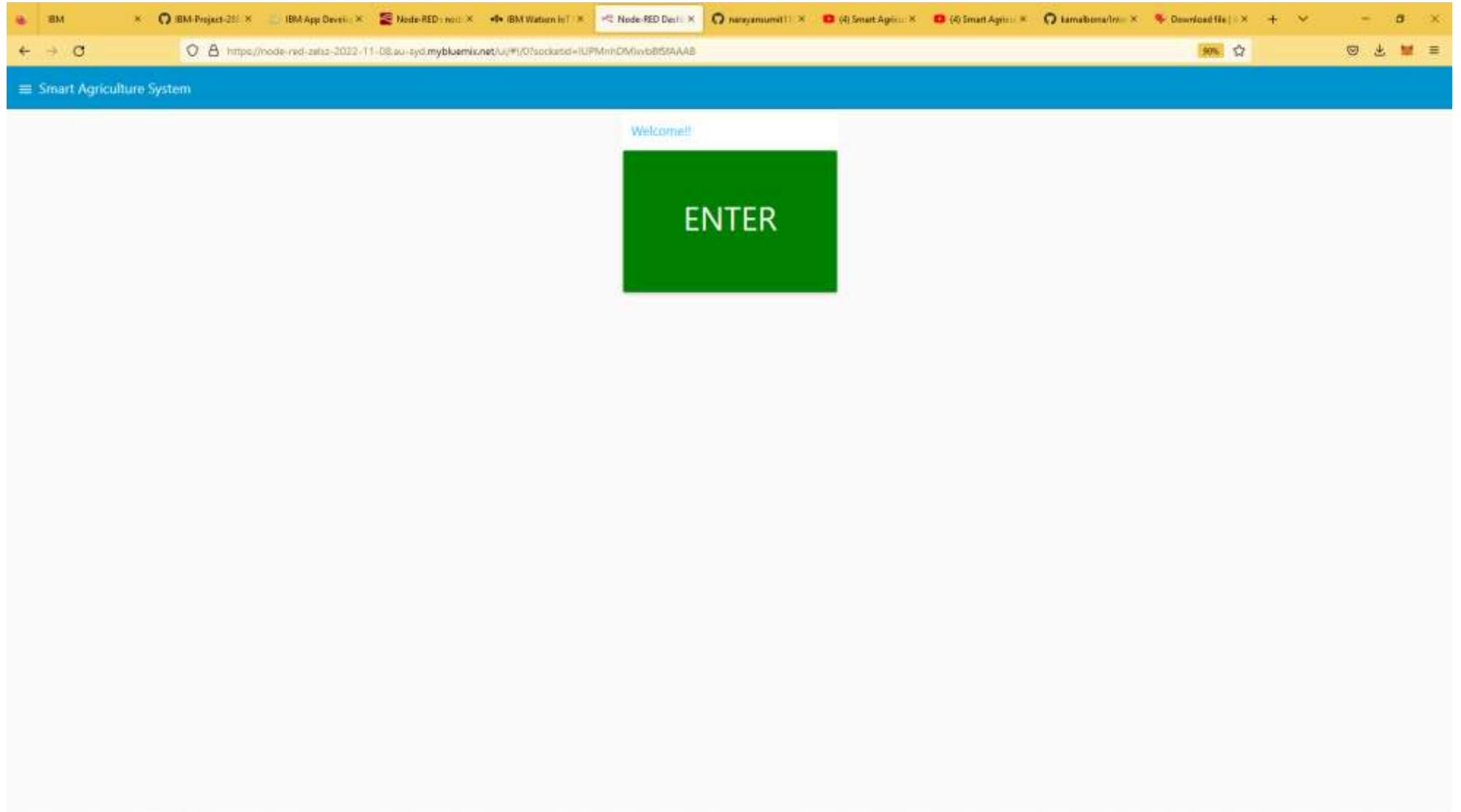
## **WORKDONE IN DASHBOARD :**

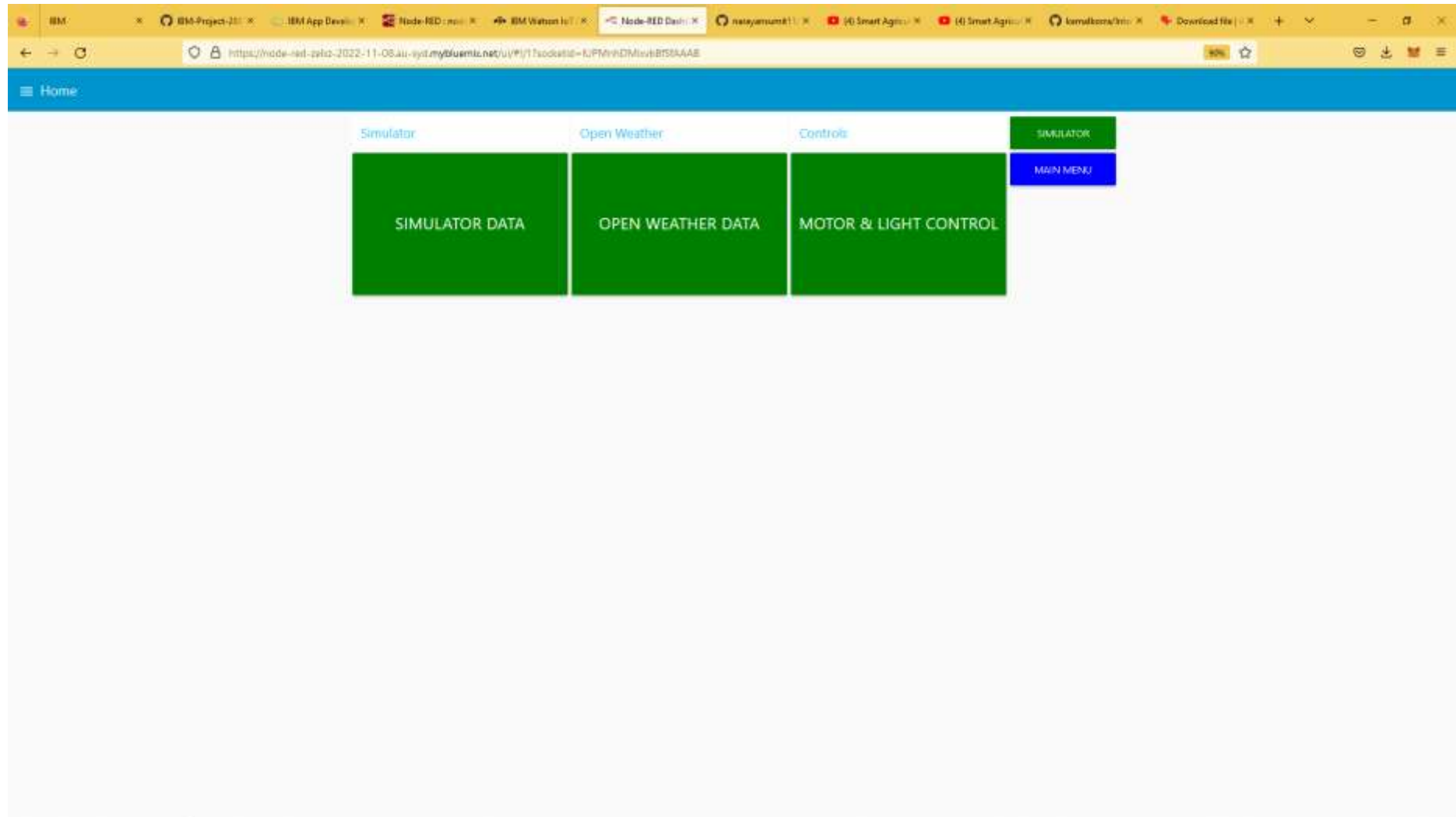
As per user stories, we created a dashboard with data is represented in graphical representation with organized section in separate widget for better user understanding.

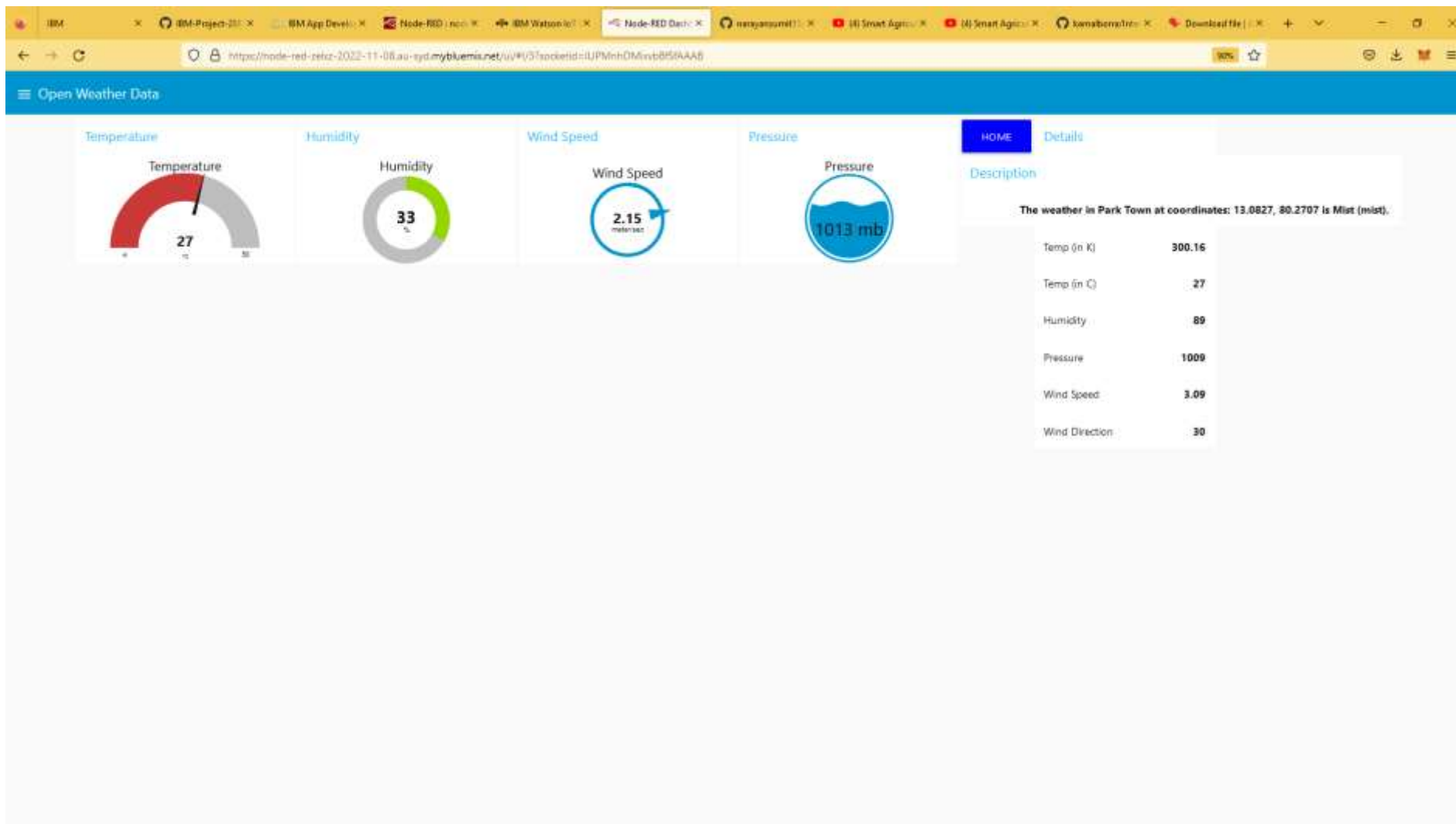
## **DEVICES :**

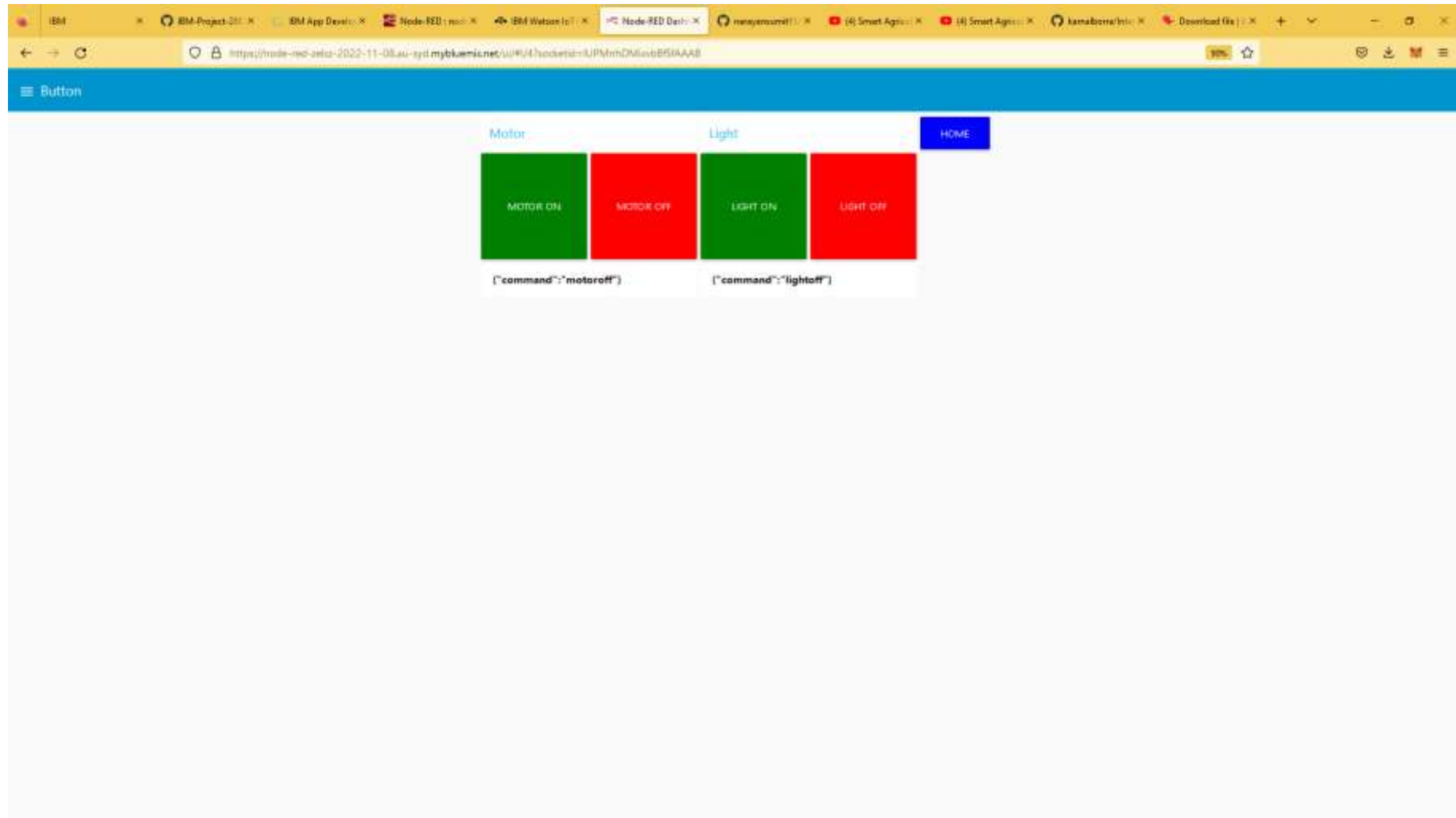
- Temperature and Humidity Sensor
- Soil Moisture Sensor

Above sensor are used for sensing some parameters.

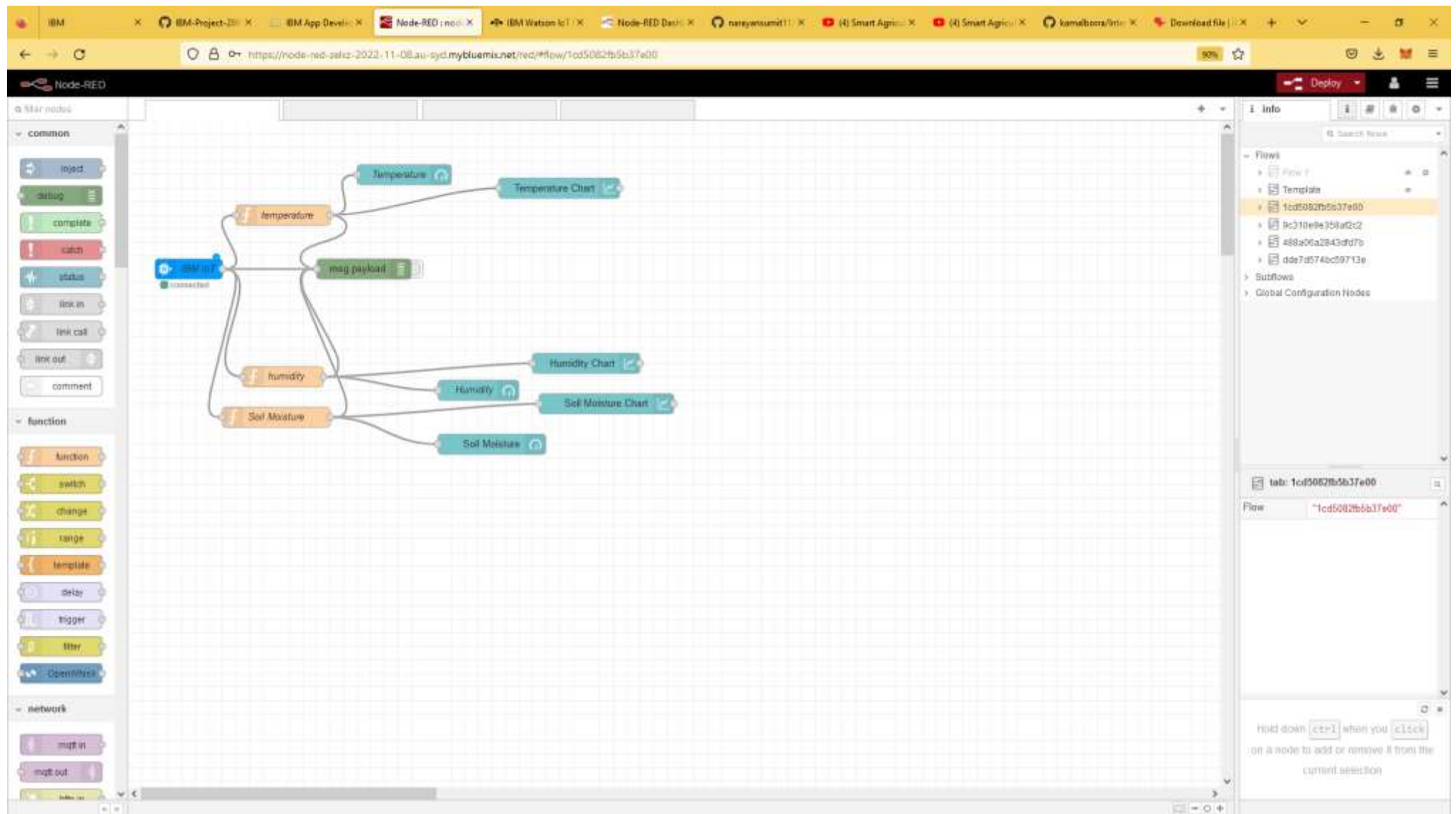








## Node Red Connection:





IBM Project-2022-11-08.au-syd.mybluemix.net/red/#flow/9c310e9e358af2c2

Node-RED

Filter nodes

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch
- change
- range
- template
- delay
- trigger
- filter
- OpenFlow

network

- mqtt in
- mqtt out
- mqtt in

Flow 1

- Template
- 1c05082fb5b37e00
- 9c310e9e358af2c2
- 488a06a2943d97b
- d9e7d574dc59713e

Subflows

- Global Configuration Nodes

tab: 9c310e9e358af2c2

Flow

9c310e9e358af2c2

Hold down **ctrl** when you **click** on a node to add or remove it from the current selection.

```
graph LR
    timestamp_in[timestamp in] --> weather[weather]
    weather --> Humidity[Humidity]
    weather --> Pressure[Pressure]
    weather --> WindSpeed[Wind Speed]
    Humidity --> HumidityOut[Humidity]
    Pressure --> PressureOut[Pressure]
    WindSpeed --> WindSpeedOut[Wind Speed]
    msg_payload1[msg payload] --> weather

    1_to[1 to] --> channel[channel]
    channel --> Temp_in_c[Temp in c]
    channel --> Weather[Weather]
    channel --> msg_payload2[msg payload]
    Temp_in_c --> Temperature[Temperature]
    Weather --> Cloud[Cloud]
    Weather --> Humidity2[Humidity]
    Weather --> WindSpeed2[Wind Speed]
    Weather --> Location[Location]
    Weather --> Temp_K[Temp (in K)]
    Weather --> Temp_C[Temp (in C)]
    Weather --> Pressure2[Pressure]
    Weather --> WindDir[Wind Direction]
    Weather --> text[text]
```

Node-RED interface showing a flow for controlling a Motor and a Light. The flow includes nodes for 'Motor On', 'Motor Off', 'Light On', 'Light Off', 'Send Device Command', and 'msg.payload'.

The flow is organized into two main sections: Motor and Light.

**Motor Section:**

- Inputs: 'Motor On' and 'Motor Off' (both with a 'toggle' icon).
- Processing: Both inputs connect to a 'Send Device Command' node (blue) and an 'msg.payload' node (green).
- Output: The 'Send Device Command' node connects to a 'Motor' node (teal).

**Light Section:**

- Inputs: 'Light On' and 'Light Off' (both with a 'toggle' icon).
- Processing: Both inputs connect to a 'Send Device Command' node (blue) and an 'msg.payload' node (green).
- Output: The 'Send Device Command' node connects to a 'Light' node (teal).

The interface includes a sidebar with node categories (common, function, network) and a right panel showing the 'Info' tab with a list of flows. The selected flow is '488a06a2843d7b'.

IBM Project-20 IBM App Develop Node-RED: node IBM Watson IoT Node-RED Dash naryansumit (4) Smart Agric (4) Smart Agric kamalbora/Int Download file

https://node-red-zelz-2022-11-08.au-syd.mybluemix.net/red/#flow/dde7d574bc59713e

Node-RED

Deploy

filter nodes

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch
- change
- range
- template
- delay
- trigger
- filter
- OpenWhisk

network

- mqtt in
- mqtt out
- mqtt in

Flow diagram:

```
graph LR; A["<font size=16>ENTER"] --> B[ui control]; C[Home] --> D[ui control]; E[Home] --> F[ui control]; G[Home] --> H[ui control]; I[Home] --> J[ui control]; K["<font size=5>Simulator Data"] --> L[ui control]; M["<font size=5>Open Weather Data"] --> L; N["<font size=5>Motor & Light Control"] --> L; O[Simulator] --> L;
```

Info

Search Flows

Flows

- Flow 1
- Template
- 1cd5082fb5b37e00
- 8c110e9e358af2c2
- 488a06a2843dfd7b
- dde7d574bc59713e
- Subflows
- Global Configuration Nodes

tab: dde7d574bc59713e

Flow: "dde7d574bc59713e"

Switch flow tabs with `ctrl-1` and `ctrl-2`