

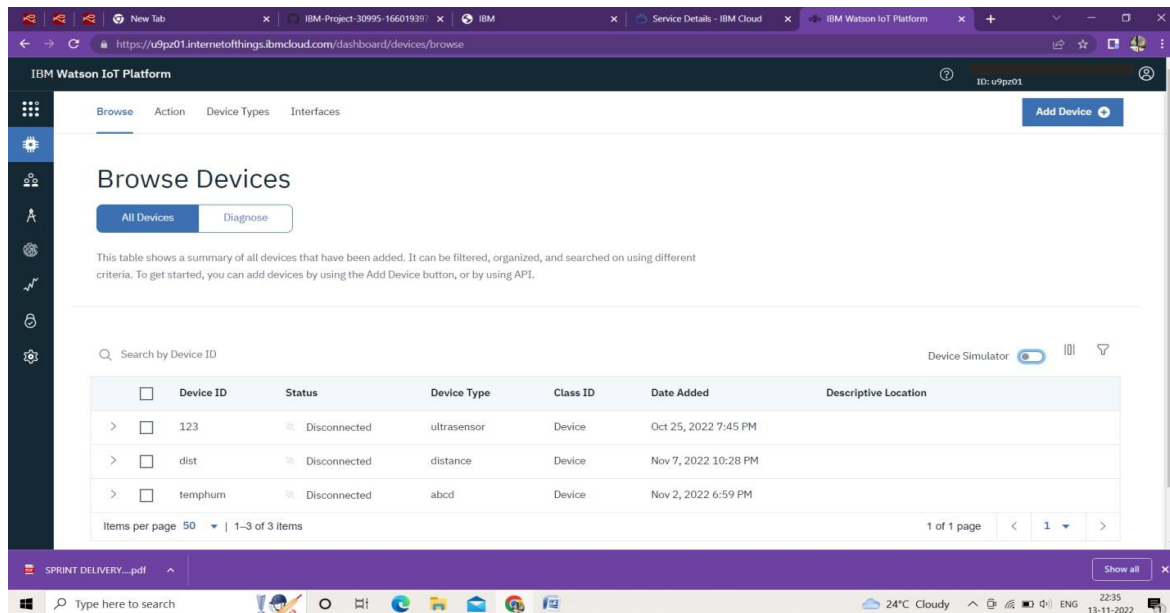
Create Dashboard node for creating UI(Web app)

Project name-Gas leakage monitoring and Detection System

Team Id-PNT2022TMID45922

Step1:

- a) Open IBM Watson and create device.
- b) Enable the device simulator.



Step2:Open the device simulation and on the respective device simulation.

The screenshot shows the IBM Watson IoT Platform interface. The main page is titled 'Browse Devices' and features a table of devices. A 'Simulations' overlay is open on the right side of the screen.

Simulations Overlay:

- 1/50 Simulations Running
- + New Simulation
- Device Type distance: Configure Event
- Device Type ultrasensor: 1 Event
- Device Type abcd: 1 Event
- 1 Device: temphum
- 1 x Create Simulated Device Use Registered Device
- 1 event sent 28 bytes sent

Main Page: Browse Devices

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device ID	Status	Device Type	Class ID	Date
123	Disconnected	ultrasensor	Device	Oct
dist	Disconnected	distance	Device	Nov
temphum	Disconnected	abcd	Device	Nov

Items per page 50 | 1-3 of 3 items

1 of 1 page

Step3:Alter the code,save and give send.

The screenshot shows the IBM Watson IoT Platform interface. The main view displays the 'Recent Events' for a device named 'temphum'. The events table shows a single event 'event_1' with a JSON payload: `{\"temp\":67,\"Humid\":99}`. A modal window is open for editing the 'event_1' type. The modal shows the 'Event type name' as 'event_1', a 'Schedule' of '1 Every Minute', and a 'Payload' editor with the following JSON code:

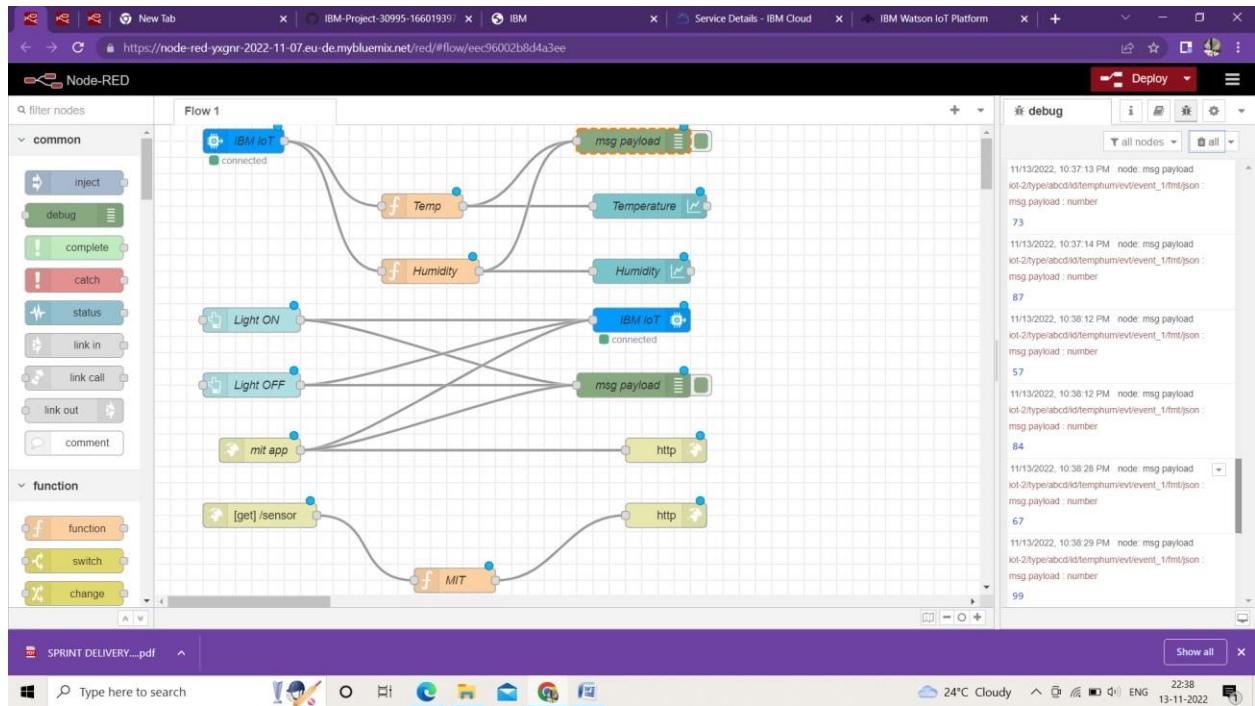
```
0 {  
1   \"temp\": random(10,80)  
2   \"Humid\": random(80,100)  
3 }  
4
```

The modal also includes a 'Send' button, an 'Upload a CSV file' button, and 'Cancel' and 'Save' buttons at the bottom.

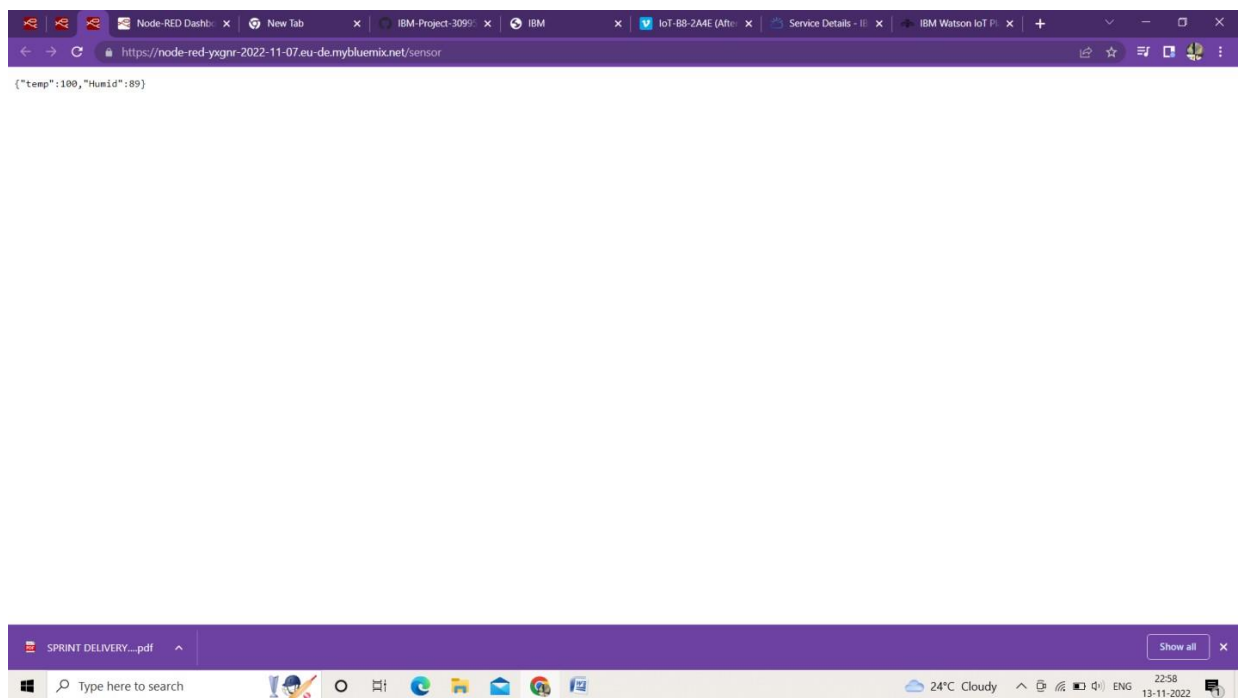
Step4:Open the Node-Red.

The screenshot shows the Node-RED interface. The main view displays a flow diagram. The flow starts with an 'inject' node, followed by 'Temp' and 'Humidity' nodes, which connect to 'Temperature' and 'Humidity' nodes. It also includes 'Light ON' and 'Light OFF' nodes, 'MIT app' and 'MIT' nodes, and 'http' nodes. The interface includes a 'Deploy' button and a 'debug' console on the right.

Step5:When we give send the output is displayed on the node red screen.



Step6:Temperature and Humidity value will be displayed in the Web page.



Step7:The Output is displayed in the Recent events.

The screenshot shows the IBM Watson IoT Platform interface. The main view displays the 'Recent Events' for a device named 'temphum'. The events table shows a single event named 'event_1' with a value of '{"temp":67,"Humid":99}' in JSON format, received a few seconds ago. A modal window is open for configuring a new event type named 'event_1'. The modal includes a 'Schedule' section set to 'Every Minute' and a 'Payload' section with a JSON payload:

```
{
  "temp": random(10,80),
  "Humid": random(80,100)
}
```

. The modal also has buttons for 'Send', 'Upload a CSV file', 'Cancel', and 'Save'.

Step8:Go to Boards.

The screenshot shows the IBM Watson IoT Platform interface with the 'Boards' tab selected. A modal window is open for configuring a new event type named 'event_1'. The modal includes a 'Schedule' section set to 'Every Minute' and a 'Payload' section with a JSON payload:

```
{
  "temp": random(10,80),
  "Humid": random(80,100)
}
```

. The modal also has buttons for 'Send', 'Upload a CSV file', 'Cancel', and 'Save'.

Step9:Open Your Boards.

The screenshot shows the IBM Watson IoT Platform dashboard. The 'Your boards' section displays three cards: 'SMART' (1 Card), 'USAGE OVERVIEW' (3 Cards), and 'RISK AND SECURITY OVERVIEW' (4 Cards). A modal window is open for creating a new event type. The 'Event type name' is 'event_1'. The 'Schedule' is set to 'Every Minute'. The 'Payload' is a JSON object:

```
{ 0: { 1: "temp": random(10,80), 2: "Humid": random(80,100), 3: } }
```

. The modal also has buttons for 'Send', 'Upload a CSV file', 'Cancel', and 'Save'.

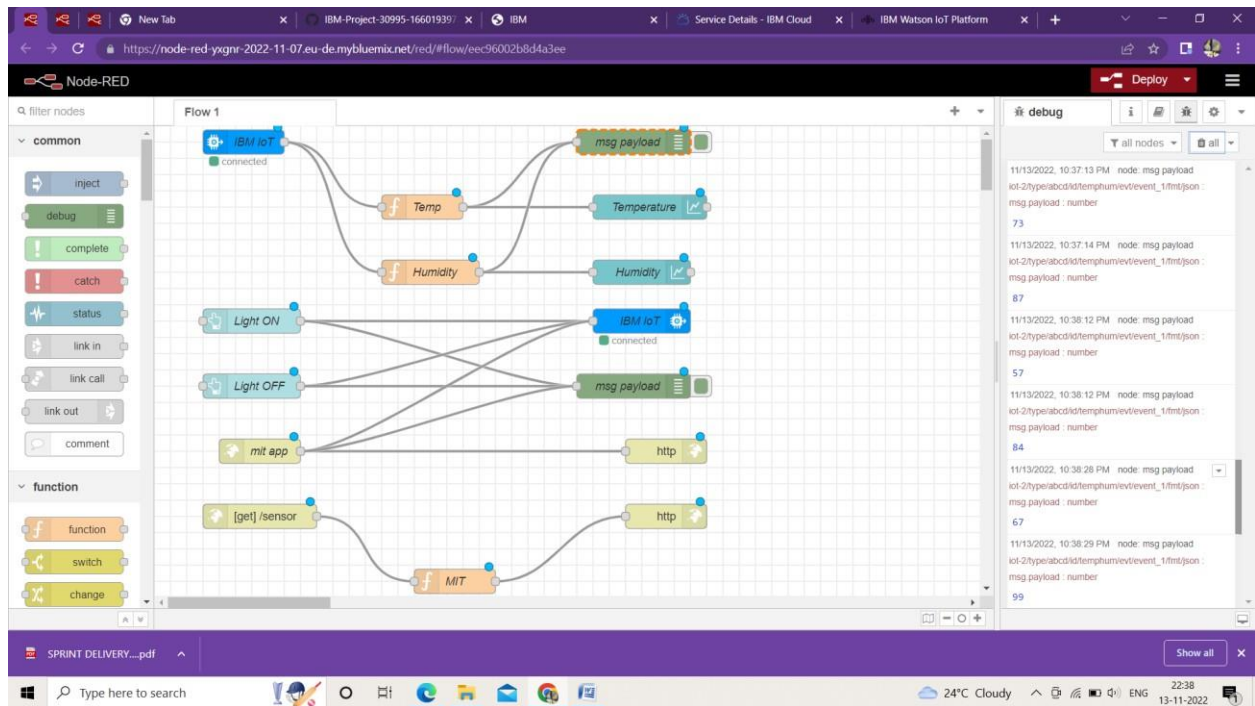
Step10:The line chart is Displayed.

The screenshot shows the IBM Watson IoT Platform dashboard with a line chart displayed for the 'smart' board. The chart shows data for 'randomNumber', 'Humid', and 'temp' over a 5-minute period. A modal window is open for creating a new event type. The 'Event type name' is 'event_1'. The 'Schedule' is set to 'Every Minute'. The 'Payload' is a JSON object:

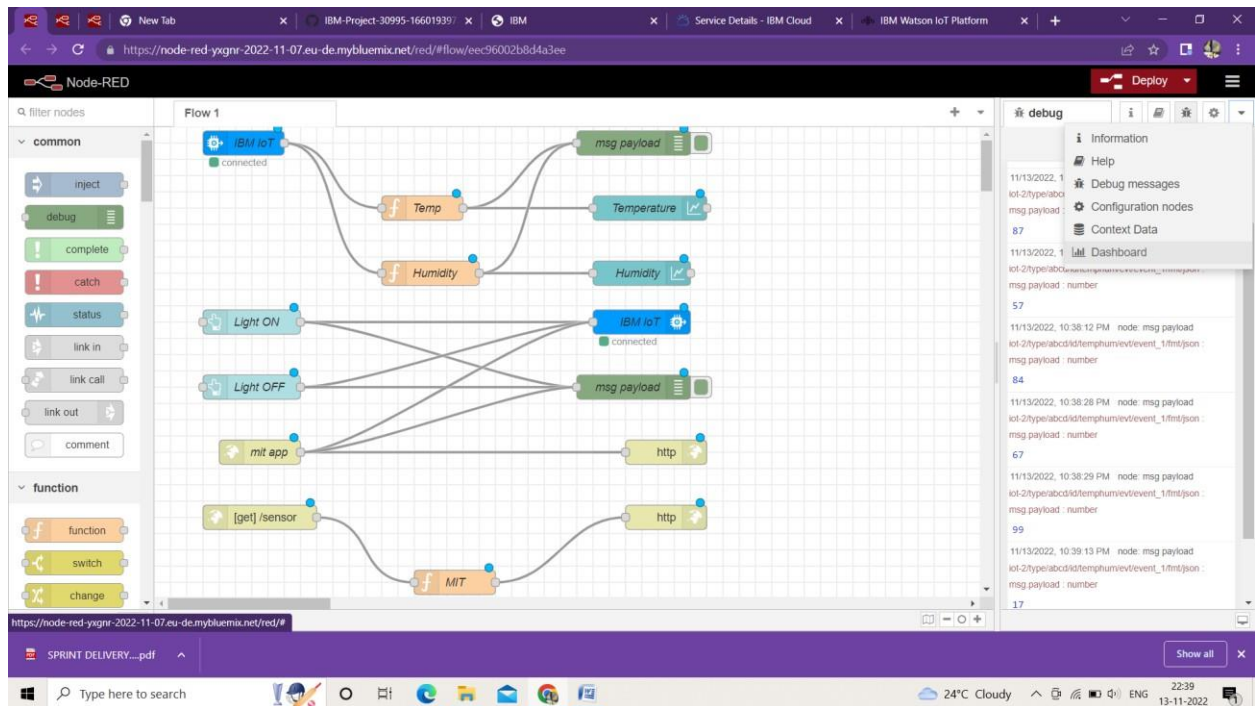
```
{ 0: { 1: "temp": random(10,80), 2: "Humid": random(80,100), 3: } }
```

. The modal also has buttons for 'Send', 'Upload a CSV file', 'Cancel', and 'Save'.

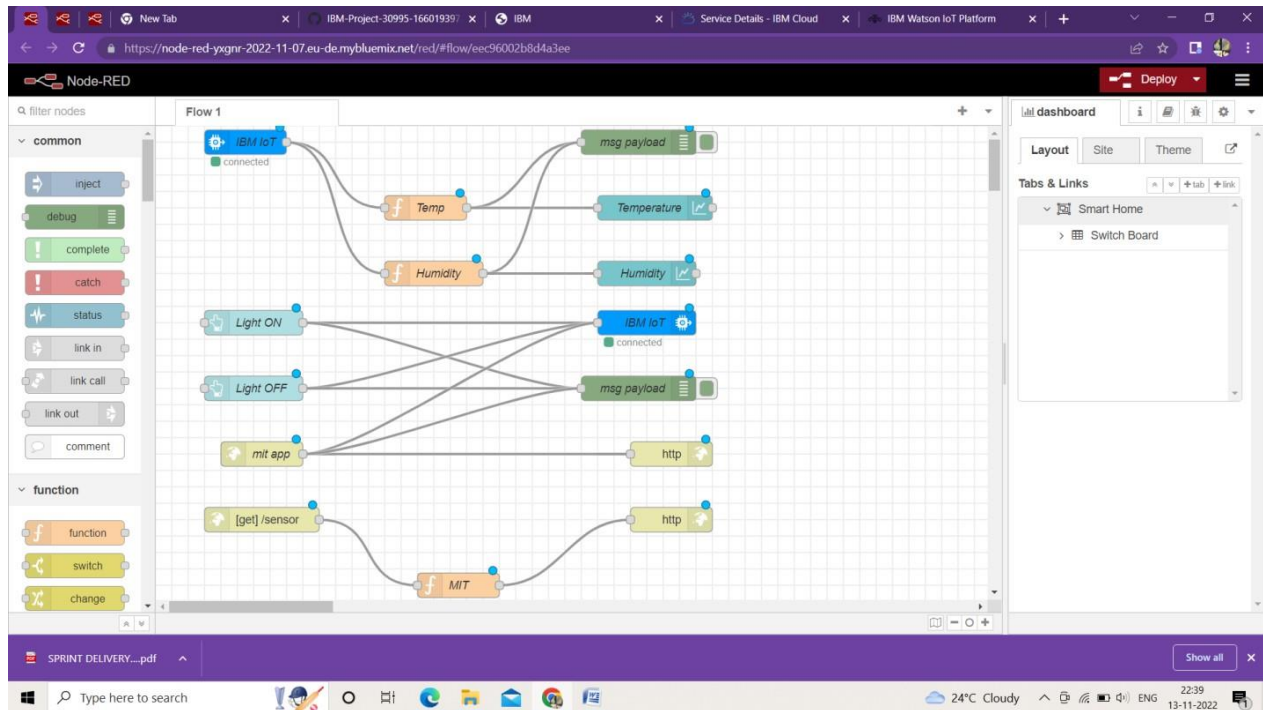
Step 11: Again open the Node Red flow.



Step 12: Open the Dashboard.



Step 13: Open Layout and open Smart Home.



Step 14: The Temperature and Humidity Graph is Displayed.

