

Create Dashboard node for creating UI(Web app)

Project name-Gas leakage monitoring and Detection System

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Step1:

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

New Tab

IBM-Project-30995-166019397

IBM

https://u9pz01.internetofthings.ibmcloud.com/dashboard/devices/browse

atson IoT Platform

Browse

Action

Device Types

Interfaces

Browse Devices

All Devices

Diagnose

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

Search by Device ID

	<input type="checkbox"/>	Device ID	Status	Device Type
>	<input type="checkbox"/>	123	Disconnected	ultrasensor
>	<input type="checkbox"/>	dist	Disconnected	distance
>	<input type="checkbox"/>	temphum	Disconnected	abcd

Items per page 50 | 1–3 of 3 items

IT DELIVERY....pdf

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

The screenshot displays the IBM Watson IoT Platform interface. The main area is titled 'Browse Devices' and contains a table of devices. A sidebar on the right is titled 'Simulations' and shows a list of simulated devices.

Browse Devices Table:

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

Simulations Sidebar:

- 1/50 Simulations Running
- 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

The bottom of the screen shows a Windows taskbar with the date 13-11-2022 and time 22:37.

Step3:Alter the code,save and give send.

The screenshot shows the IBM Watson IoT Platform interface. On the left, a sidebar contains navigation icons. The main area displays a table of devices, including 'dist', 'temphum', and 'abcd'. The 'Recent Events' tab is selected for device 'abcd', showing a table with columns: Event, Value, Format, and Last Received. An event 'event_1' is listed with a JSON payload: {"temp":67,"Humid":99}. On the right, a modal window titled 'Device Type: abcd' is open, showing the 'Events' section. It includes a 'New event type' button, a 'Send' button, and a 'Schedule' dropdown set to 'Every Minute'. The 'Payload' section contains a JSON editor with the following code:

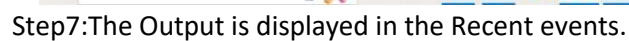
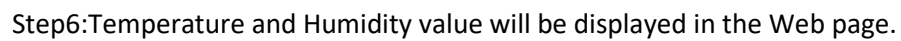
```
0 {  
1   "temp": random(10,100),  
2   "Humid": random(80,100),  
3 }  
4
```

Below the editor is an 'Upload a CSV file' button. At the bottom of the modal are 'Cancel' and 'Save' buttons.

Step4:Open the Node-Red.

The screenshot shows the Node-RED interface. The left sidebar contains a 'filter nodes' search bar and two categories of nodes: 'common' and 'function'. The 'common' category includes nodes like 'inject', 'debug', 'complete', 'catch', 'status', 'link in', 'link call', 'link out', and 'comment'. The 'function' category includes 'function', 'switch', and 'change'. The main workspace displays a flow diagram for 'Flow 1'. It starts with an 'IBM IoT' node connected to 'Temp' and 'Humidity' nodes. These nodes are connected to 'Temperature' and 'Humidity' nodes. The 'Temperature' node is connected to an 'IBM IoT' node, which is then connected to a 'msg payload' node. The 'Humidity' node is connected to an 'IBM IoT' node, which is then connected to a 'msg payload' node. The 'msg payload' nodes are connected to 'http' nodes. The 'Light ON' and 'Light OFF' nodes are connected to the 'IBM IoT' nodes. The 'mit app' node is connected to the 'http' nodes. The 'MIT' node is connected to the 'http' nodes. The 'debug' sidebar on the right is empty.

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

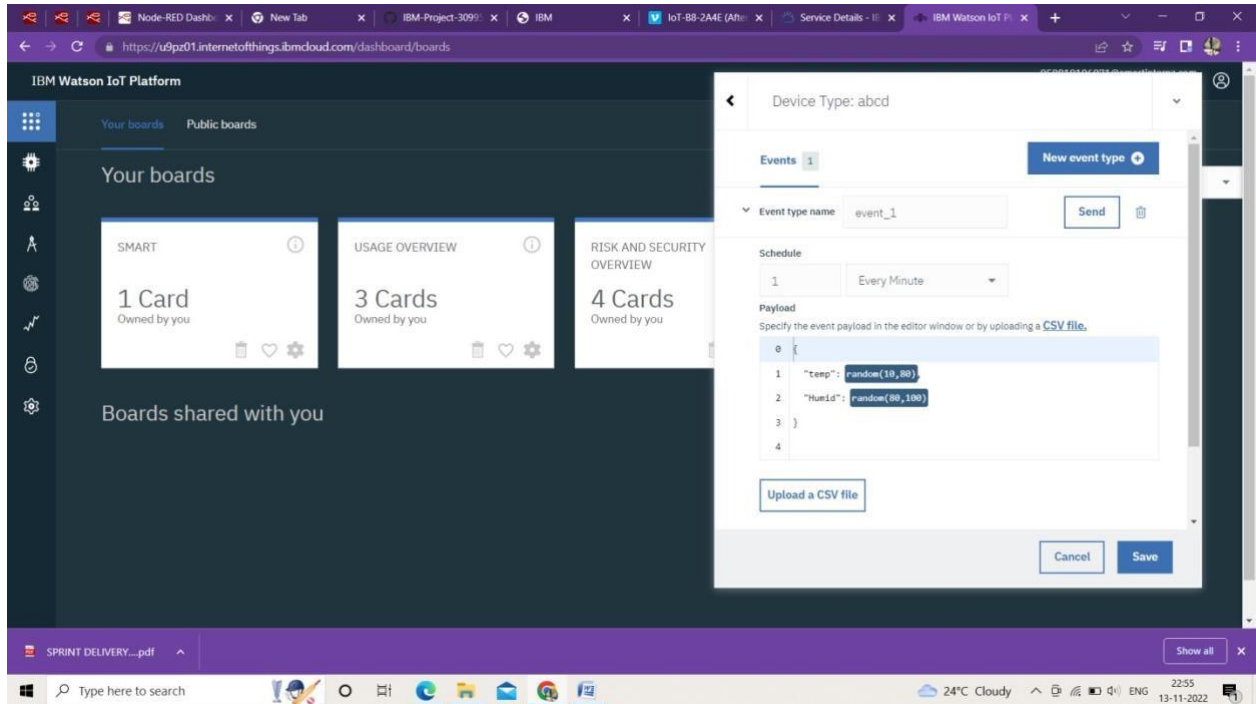


The screenshot shows the IBM Watson IoT Platform interface. The main view displays the 'Recent Events' for a device named 'temphum'. The event list shows a single event named 'event_1' with a payload of `{\"temp\":67,\"Humid\":99}` in JSON format. A modal window is open for editing the event type 'event_1'. 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'.

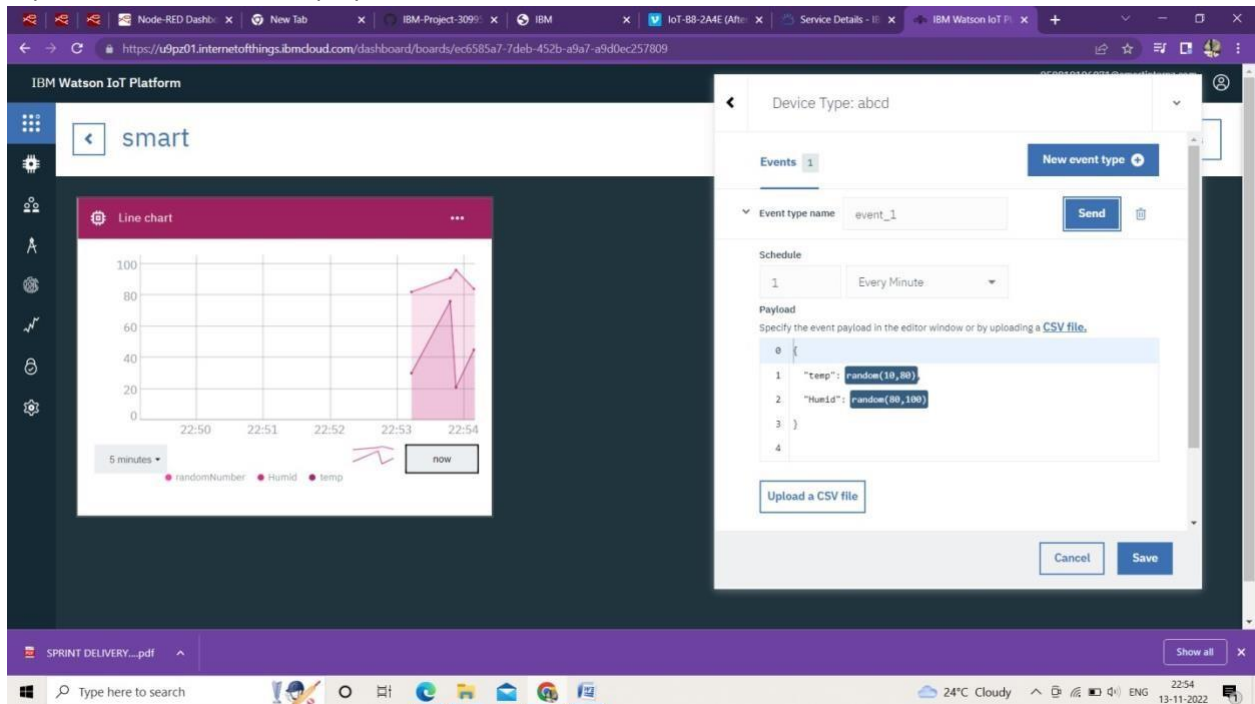
Step8:Go to Boards.

The screenshot shows the IBM Watson IoT Platform interface with the 'Boards' tab selected in the left sidebar. The main view displays the 'Devices' tab, showing a list of devices. A modal window is open for editing the event type 'event_1', similar to the one in the previous screenshot, showing the 'Schedule' and 'Payload' sections.

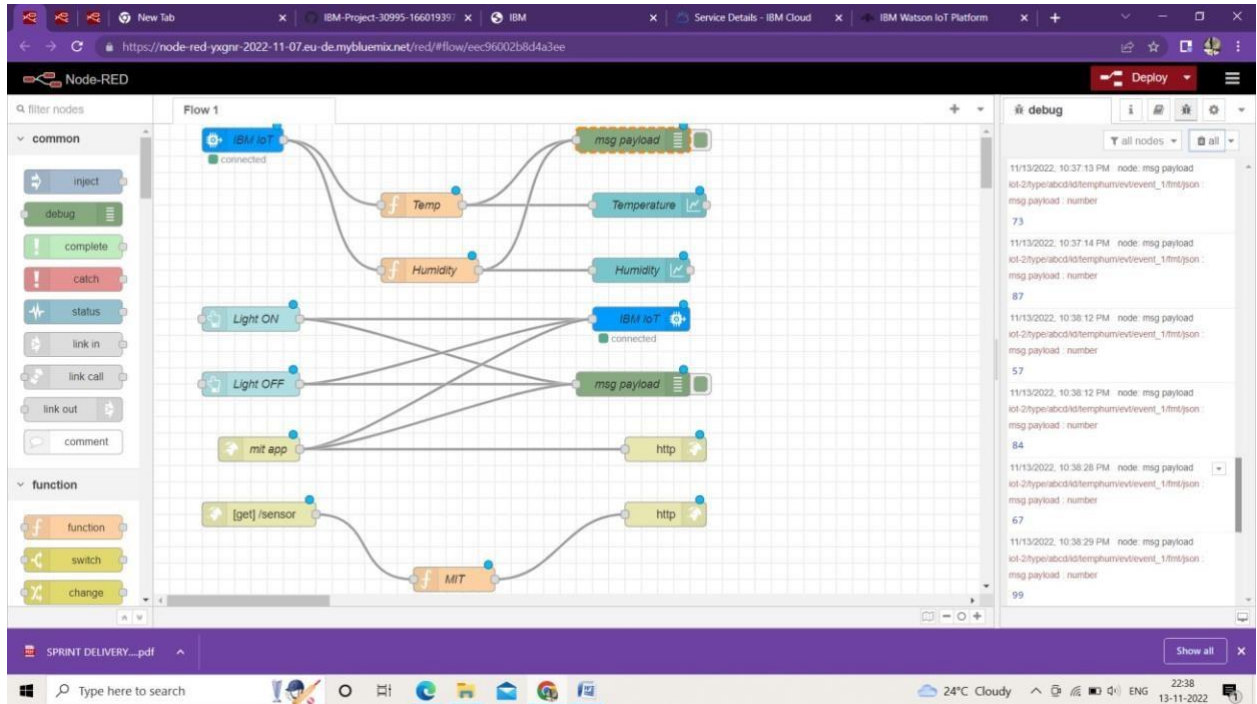
Step9:Open Your Boards.



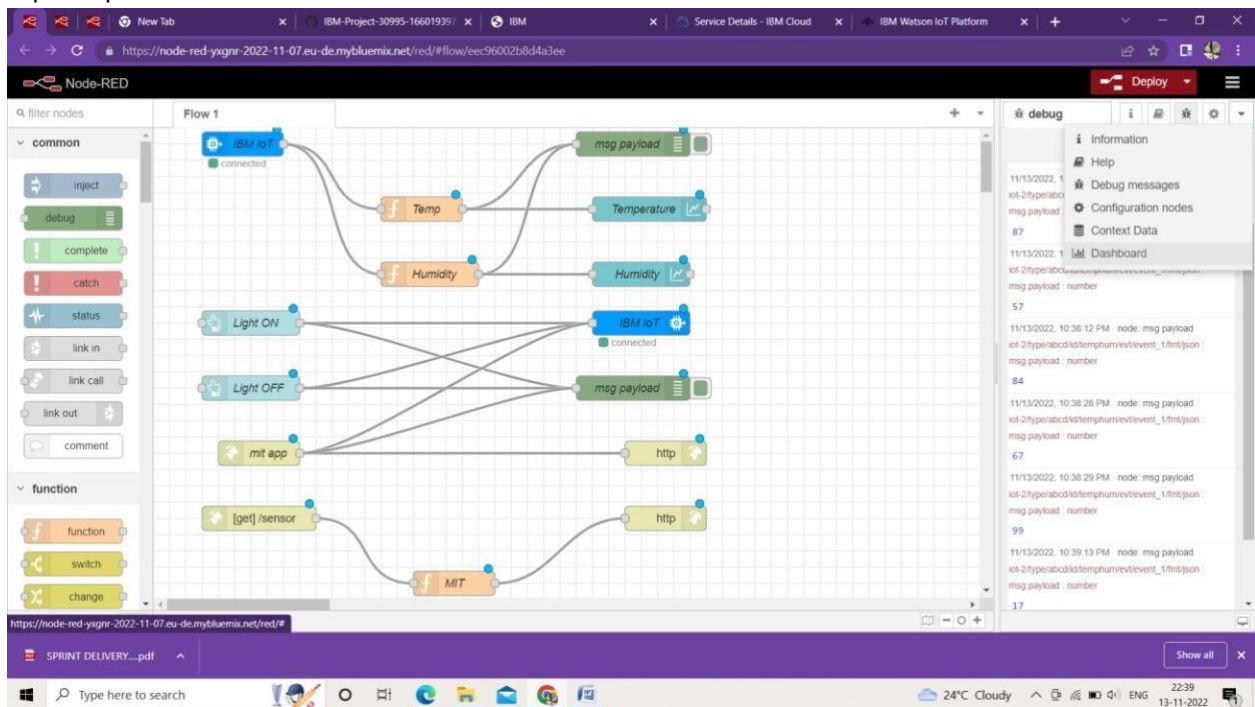
Step10:The line chart is Displayed.



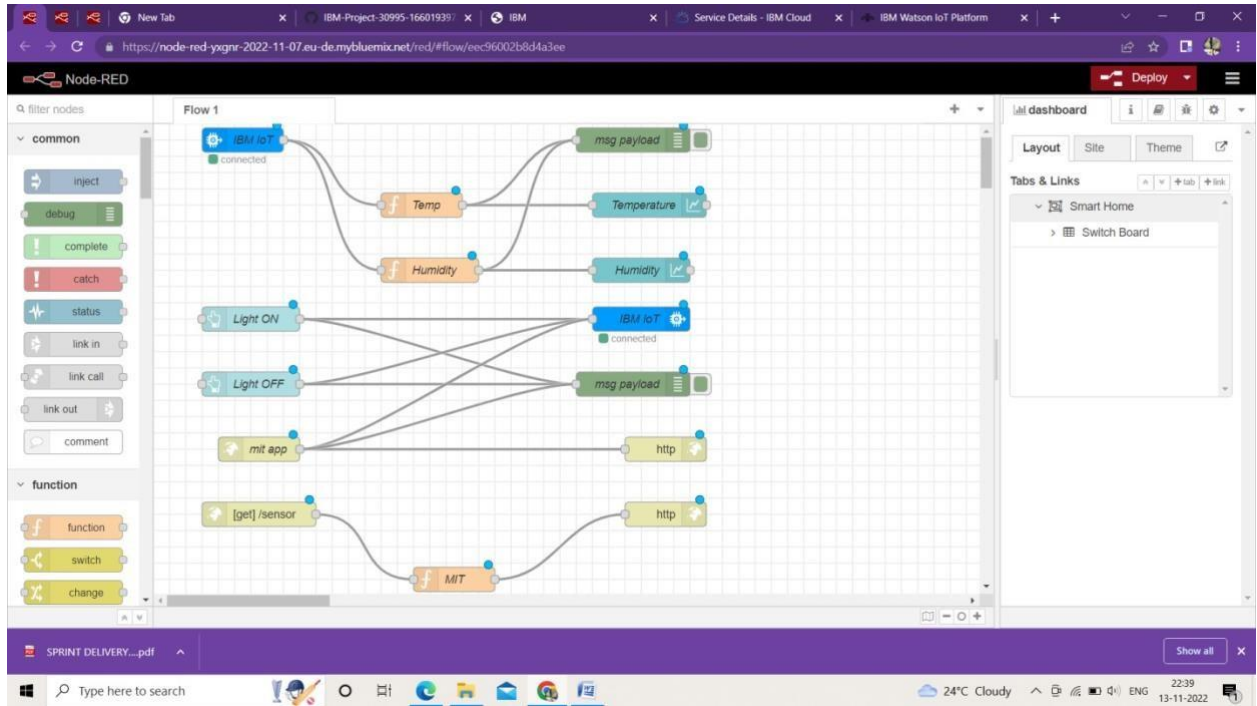
Step 11:Again open the Node Red flow.



Step12:Open the Dashboard.



Step 13:Open Layout and open Smart Home.



Step14:The Temperature and Humidity Graph is Displayed.

