

Use Dashboard Nodes for Creating UI (Web App)

Team Id	PNT2022TMID14029
Project Name	Gas Leakage Monitoring and Alerting System for Industries

Step1: Open IBM Watson and create device. Enable the device simulator.

The screenshot displays the IBM Watson IoT Dashboard interface. The main heading is "Browse Devices". Below it, there are tabs for "All Devices" and "Diagnose". A descriptive text states: "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." Below this is a search bar labeled "Search by Device ID". To the right of the search bar is a "Device Simulator" toggle switch, which is currently turned on. Below the search bar is a table with the following columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. The table contains three rows of data:

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
123	Disconnected	ultrasensor	Device	Oct 25, 2022 7:45 PM	
dist	Disconnected	distance	Device	Nov 7, 2022 10:28 PM	
temphum	Disconnected	abcd	Device	Nov 2, 2022 6:59 PM	

At the bottom of the table, it says "Items per page 50 | 1-3 of 3 items". To the right of the table, it says "1 of 1 page". The bottom of the image shows a Windows taskbar with a search bar and various application icons.

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

The screenshot shows the IBM Watson IoT Platform interface. The main panel is titled 'Browse Devices' and contains a table of devices. A sidebar on the right, titled 'Simulations', is open, showing a list of simulations and a 'New Simulation' button. The 'Simulations' sidebar has a '1/50 Simulations Running' status and a '+ New Simulation' button. Below this, there are three simulation entries: 'distance' (Device Type: distance), 'ultrasensor' (Device Type: ultrasensor), and 'abcd' (Device Type: abcd). The 'abcd' simulation is selected, showing a '1 Event' status and a 'Configure Event' button. Below the simulation list, there is a '1 Device' section with a 'temphum' device. At the bottom of the sidebar, there are buttons for '1 x Create Simulated Device' and 'Use Registered Device'. The main 'Browse Devices' table has columns for Device ID, Status, Device Type, Class ID, and Date. It lists three devices: '123' (Status: Disconnected, Device Type: ultrasensor), 'dist' (Status: Disconnected, Device Type: distance), and 'temphum' (Status: Disconnected, Device Type: abcd). The bottom of the page shows a purple status bar with a file named 'SPRINT DELIVERY....pdf' and a 'Show all' button.

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

Step3:Alter the code,save and give send.

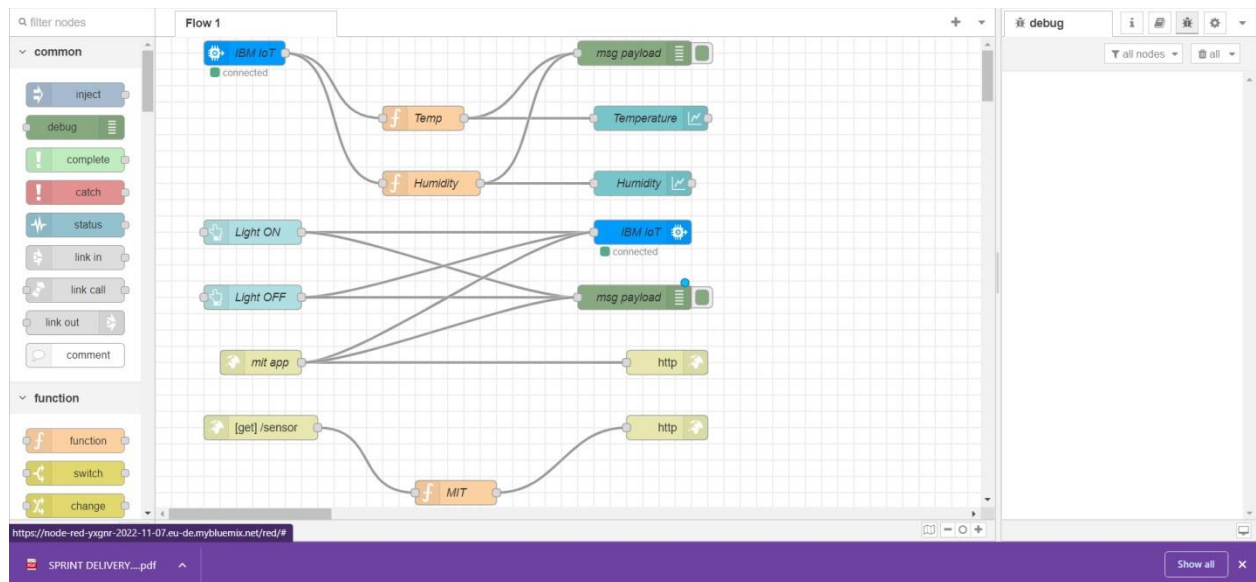
The screenshot shows the IBM Watson IoT Platform interface. The main panel is titled 'Device Simulation' and shows details for the 'temphum' device. A sidebar on the right, titled 'Events', is open, showing a list of events and a 'New event type' button. The 'Events' sidebar has a '1 Event' status and a 'Send' button. Below this, there is a 'Schedule' section with a dropdown menu set to 'Every Minute'. The 'Payload' section shows a JSON payload:

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

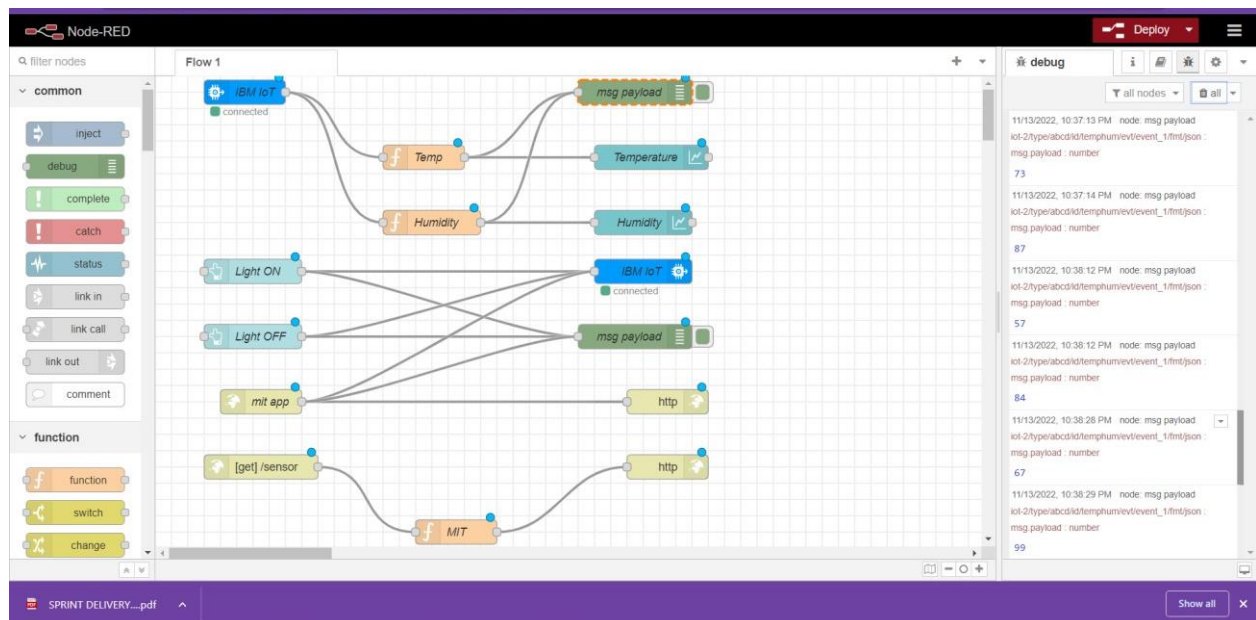
. At the bottom of the sidebar, there is a 'Upload a CSV file' button. The main 'Device Simulation' panel has tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is selected, showing a table of recent events. The table has columns for Event, Value, Format, and Last Received. It lists one event: 'event_1' with a value of '{"temp":67,"Humid":99}' in JSON format, received 'a few seconds' ago. The bottom of the page shows a purple status bar with a file named 'SPRINT DELIVERY....pdf' and a 'Show all' button.

Event	Value	Format	Last Received
event_1	{"temp":67,"Humid":99}	json	a few seconds

Step4:Open the Node-Red.



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.

```
{"temp":100,"Humid":89}
```

Step7:The Output is displayed in the Recent events.

The screenshot displays the IBM Watson IoT Platform interface. On the left, a sidebar contains navigation icons. The main area shows a table of devices with columns for Identity, Device Information, Recent Events, State, and Logs. The 'Recent Events' tab is selected, showing a table with columns for Event, Value, Format, and Last Received. A single event, 'event_1', is listed with a value of '{"temp":67,"Humid":99}' in json format, received a few seconds ago. Below the table, it indicates 'Items per page 50' and '1-3 of 3 items'.

On the right, a configuration modal for 'Device Type: abcd' is open. It has tabs for 'Events' and 'New event type'. The 'Events' tab is active, showing 'Event type name' as 'event_1'. The 'Schedule' is set to '1' and 'Every Minute'. The 'Payload' section contains a JSON object:

```
{ 0: { 1: "temp": random(10,90), 2: "Humid": random(80,100), 3: } 4: }
```

. There is an 'Upload a CSV file' button and 'Cancel' and 'Save' buttons at the bottom.

Step8:Go to Boards.

The screenshot shows the IBM Watson IoT Platform interface. On the left, a sidebar contains navigation links: Boards, Devices, Members, Apps, Access Management, Usage, Security, and Settings. The main area is titled 'Devices' and includes a 'Diagnose' button. Below this is a table of devices with columns for Device ID, Status, Device Type, Class ID, and Date. One device is highlighted with the type 'abcd'. A modal window is open on the right, titled 'Device Type: abcd', showing the 'Events' configuration. It includes a 'New event type' button, a text field for 'Event type name' (set to 'event_1'), a 'Send' button, a 'Schedule' dropdown (set to 'Every Minute'), and a 'Payload' editor. The payload is a JSON object:

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

. There is an 'Upload a CSV file' button and 'Cancel'/'Save' buttons at the bottom.

Device ID	Status	Device Type	Class ID	Date
23	Disconnected	ultrasensor	Device	Oct
ist	Disconnected	distance	Device	Nov
amphum	Disconnected	abcd	Device	Nov

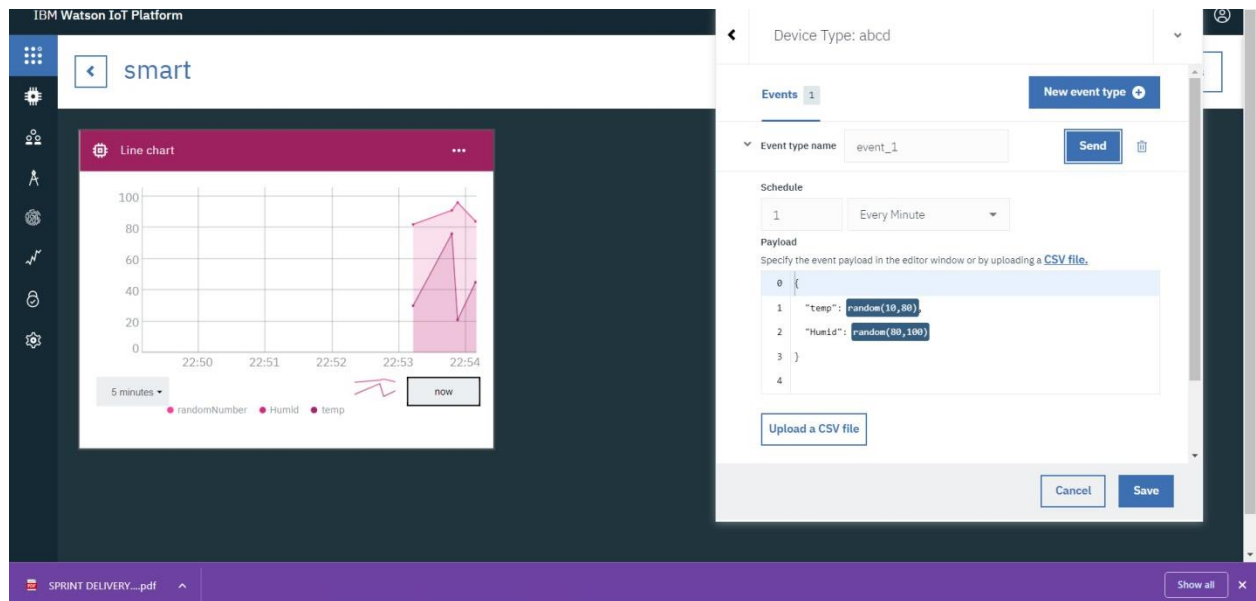
Step9:Open Your Boards.

The screenshot shows the IBM Watson IoT Platform interface. On the left, a sidebar contains navigation links: Boards, Devices, Members, Apps, Access Management, Usage, Security, and Settings. The main area is titled 'Your boards' and includes a 'Public boards' tab. Below this are three cards: 'SMART' (1 Card), 'USAGE OVERVIEW' (3 Cards), and 'RISK AND SECURITY OVERVIEW' (4 Cards). A section 'Boards shared with you' is also visible. A modal window is open on the right, titled 'Device Type: abcd', showing the 'Events' configuration. It includes a 'New event type' button, a text field for 'Event type name' (set to 'event_1'), a 'Send' button, a 'Schedule' dropdown (set to 'Every Minute'), and a 'Payload' editor. The payload is a JSON object:

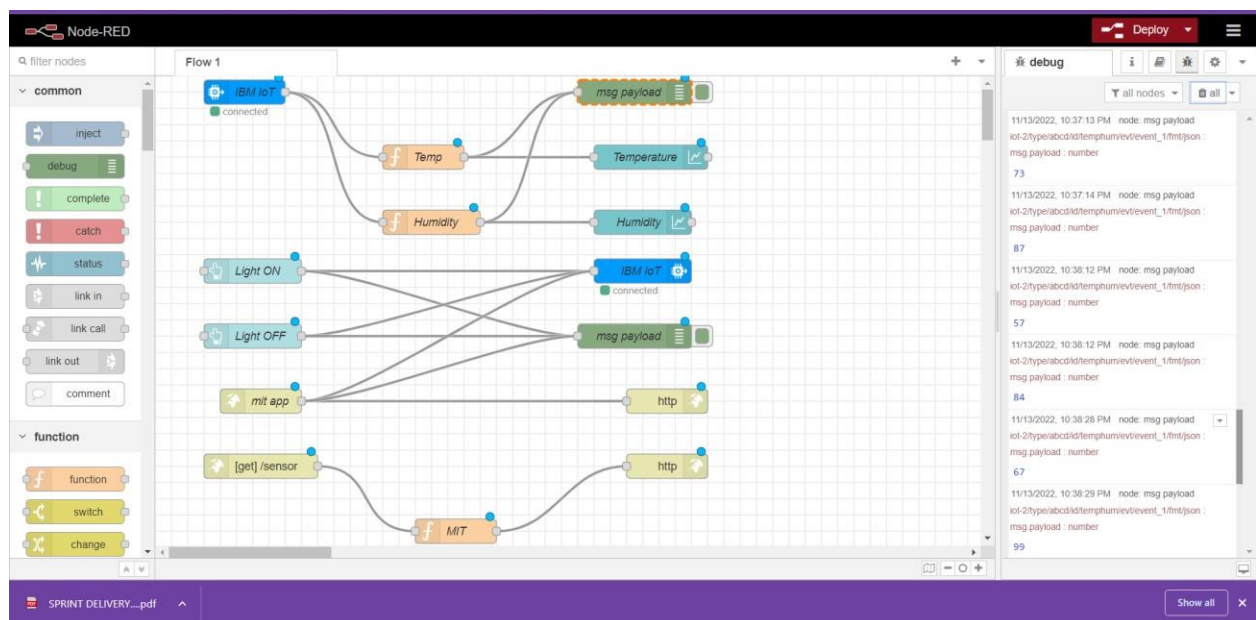
```
{ 0: { 1: { "temp": random(10, 80) 2: { "Humid": random(80, 100) 3: } 4: }
```

. There is an 'Upload a CSV file' button and 'Cancel'/'Save' buttons at the bottom.

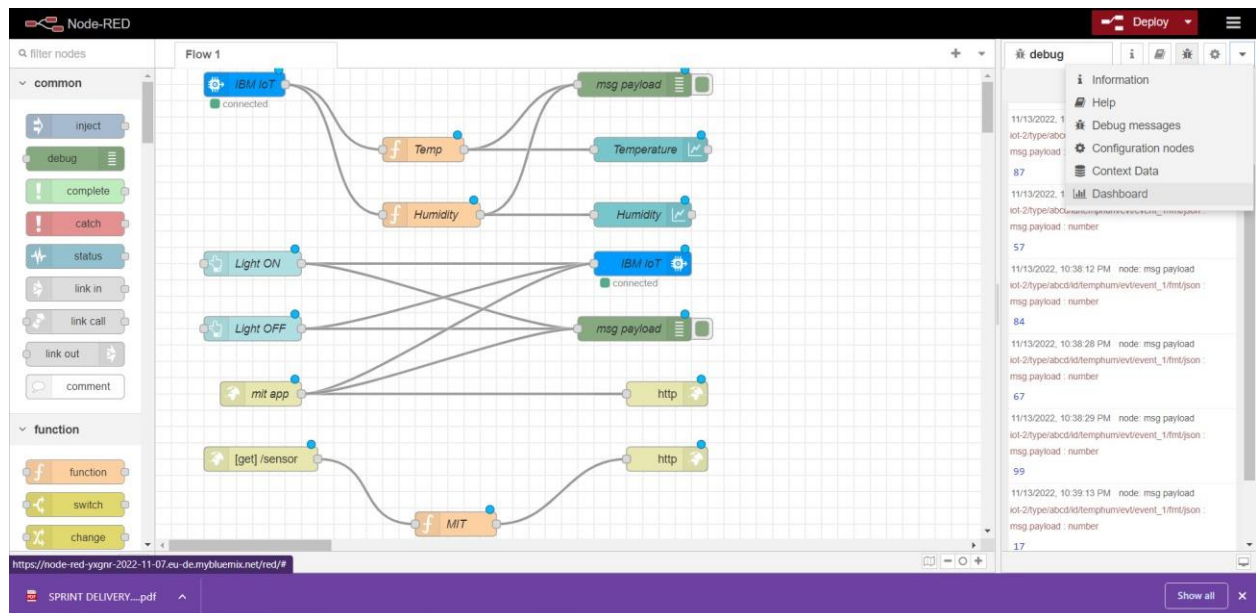
Step10:The line chart is Displayed.



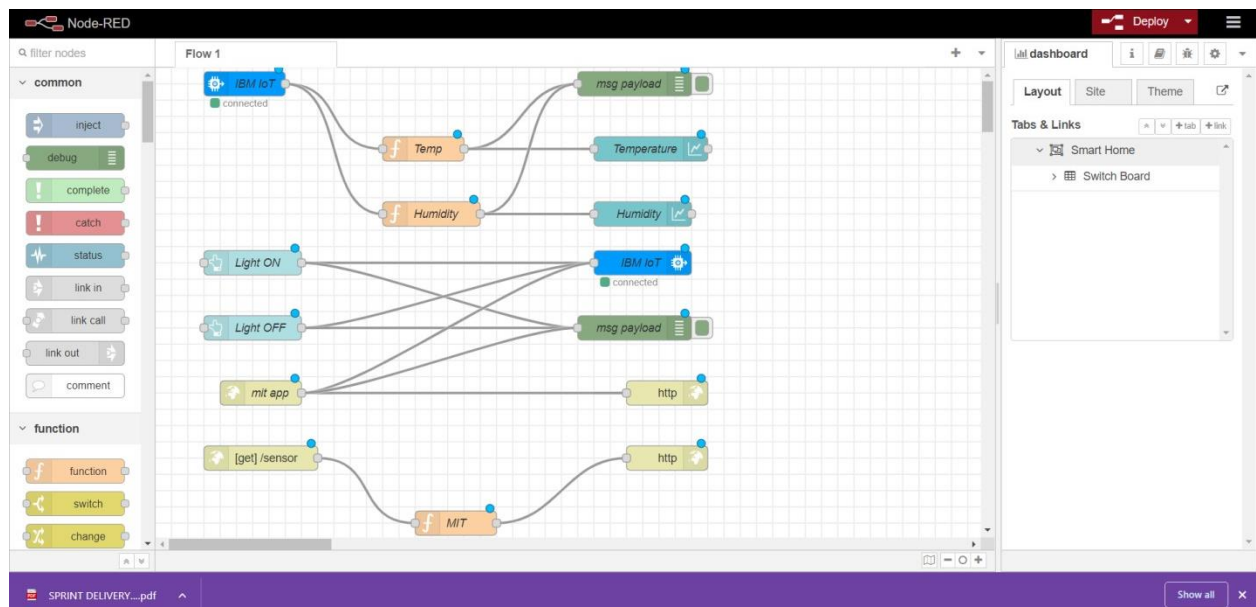
Step 11: Again open the Node Red flow.



Step12:Open the Dashboard.



Step 13:Open Layout and open Smart Home.



Step14:The Temperature and Humidity Graph is Displayed.

