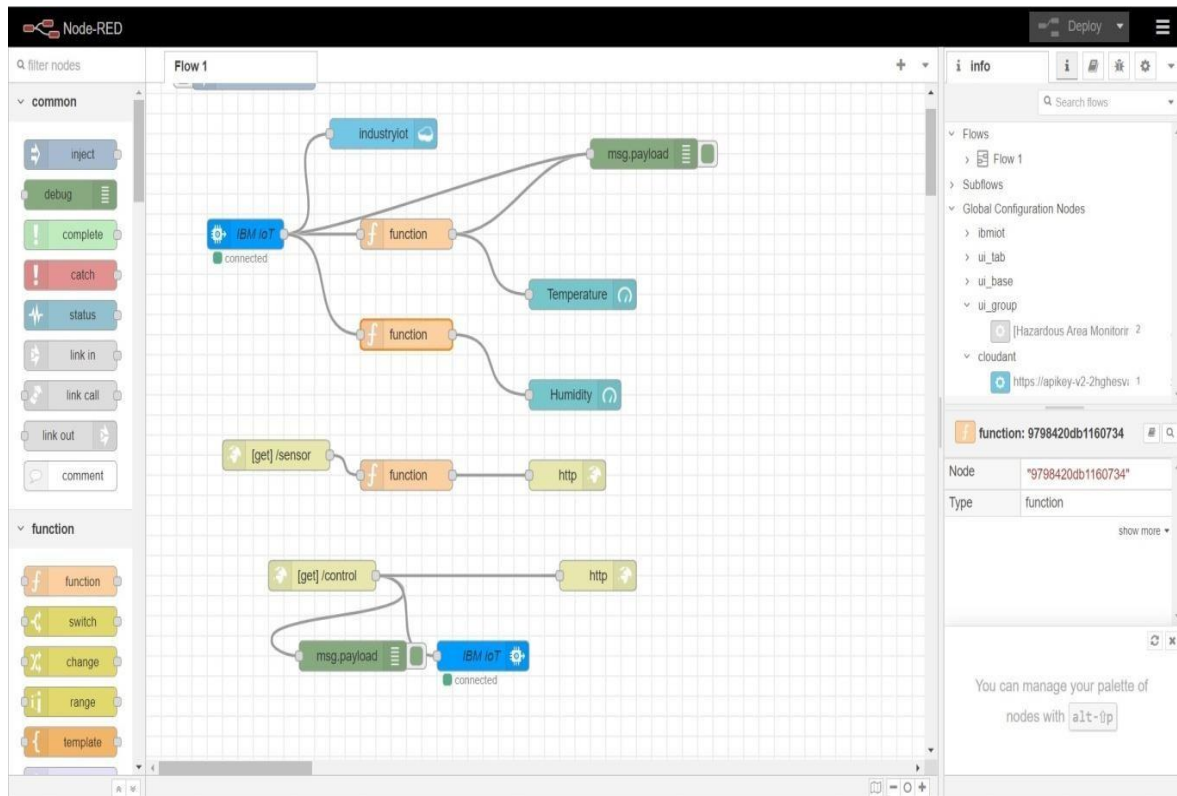


Develop The Web Application Using Node-RED

Team Id	PNT2022TMID46638
Project Name	Hazardous area monitoring for industrial plant powered by IOT
Team Lead	Aarthi.M
Team Member 1	Rubini.K
Team Member 2	Indhumathi.E
Team Member 3	Manimekalai.P

Node red flow



Develop The Web Application Using Node-RED

Function block

The image shows the Node-RED web interface. On the left, the 'function' node is selected from the palette. The main workspace displays a flow with several nodes, including a function node. The 'Edit function node' dialog is open, showing the following code:

```
1 msg.payload = msg.payload.temp;  
2 global.set('t',msg.payload)  
3 return msg;
```

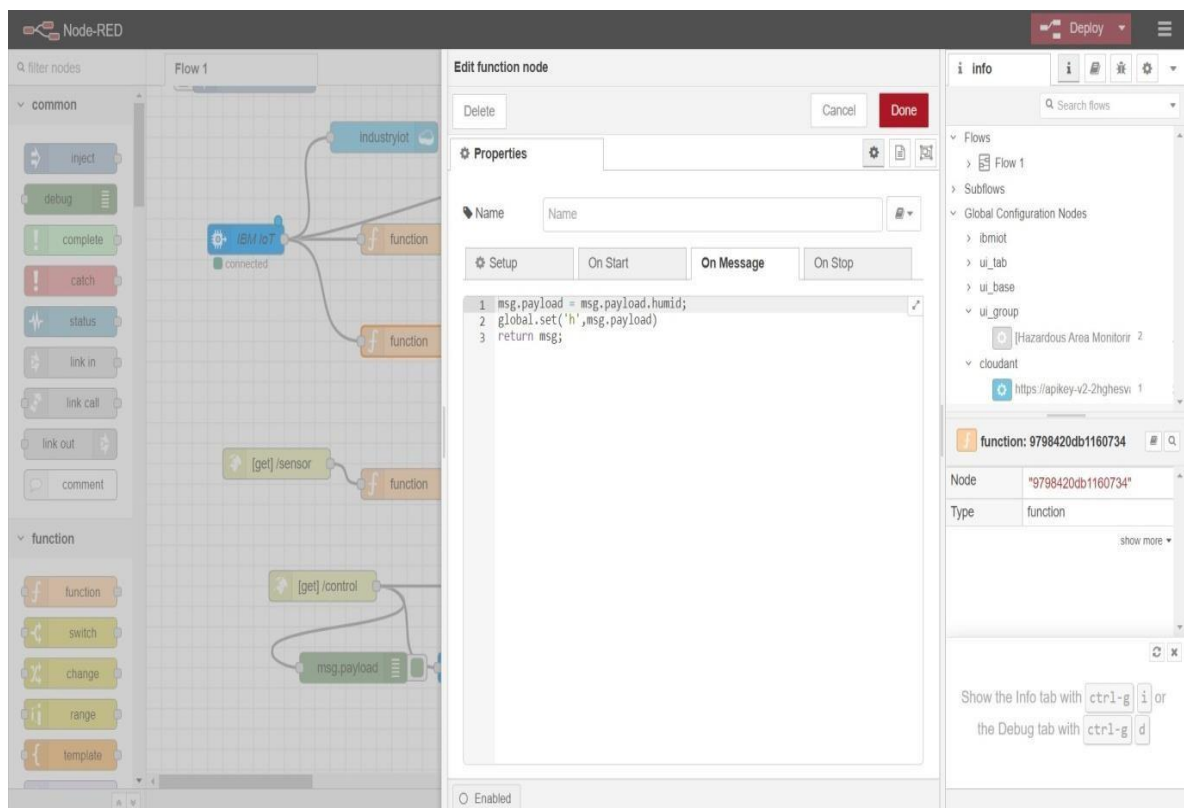
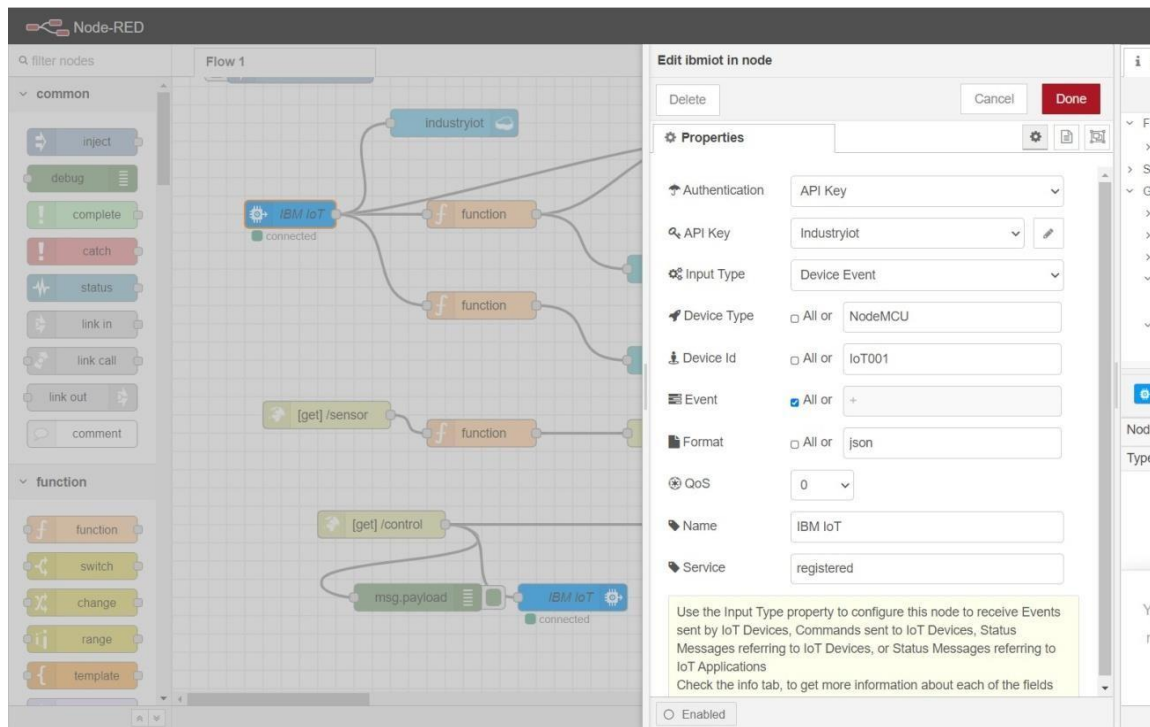
The right sidebar shows the 'info' tab, displaying the node's ID as '815cba7c7af38e65' and its type as 'function'.

The image shows the Node-RED web interface. On the left, the 'function' node is selected from the palette. The main workspace displays a flow with several nodes, including a function node. The 'Edit function node' dialog is open, showing the following code:

```
1 msg.payload = msg.payload.humid;  
2 global.set('h',msg.payload)  
3 return msg;
```

The right sidebar shows the 'info' tab, displaying the node's ID as '9798420db1160734' and its type as 'function'. At the bottom, a message indicates: 'Show the Info tab with **ctrl-g** or the Debug tab with **ctrl-g d**'.

Develop The Web Application Using Node-RED



Develop The Web Application Using Node-RED

The top screenshot shows the Node-RED web interface. On the left, the 'common' and 'function' node palettes are visible. The main workspace displays a flow named 'Flow 1' with several nodes: an 'inject' node, an 'IBM IoT' node, two 'function' nodes, a '[get] /sensor' node, a '[get] /control' node, a 'msg.payload' node, and another 'IBM IoT' node. The right sidebar shows the 'info' panel with a search bar and a tree view of the flow structure. The 'Edit gauge node' dialog is open, showing the following configuration:

- Group: [Hazardous Area Monitoring for Industri]
- Size: auto
- Type: Gauge
- Label: Humidity
- Value format: {{value}}
- Units: %
- Range: min 0, max 100
- Colour gradient: [Green, Yellow, Red]
- Sectors: 0, optional, optional, 100
- Class: Optional CSS class name(s) for widget
- Name:

The 'info' panel on the right shows the selected node's details:

Node	Type
"a214ca6c4eabe"	ui_gauge

The bottom screenshot shows the same Node-RED interface, but the flow is now configured for temperature monitoring. The 'Edit gauge node' dialog is open, showing the following configuration:

- Group: [Hazardous Area Monitoring for Industri]
- Size: auto
- Type: Gauge
- Label: Temperature
- Value format: {{value}}
- Units: c
- Range: min 0, max 100
- Colour gradient: [Green, Yellow, Red]
- Sectors: 0, optional, optional, 100
- Class: Optional CSS class name(s) for widget
- Name:

The 'info' panel on the right shows the selected node's details:

Node	Type
"50e22bf31d3e6148"	ui_gauge