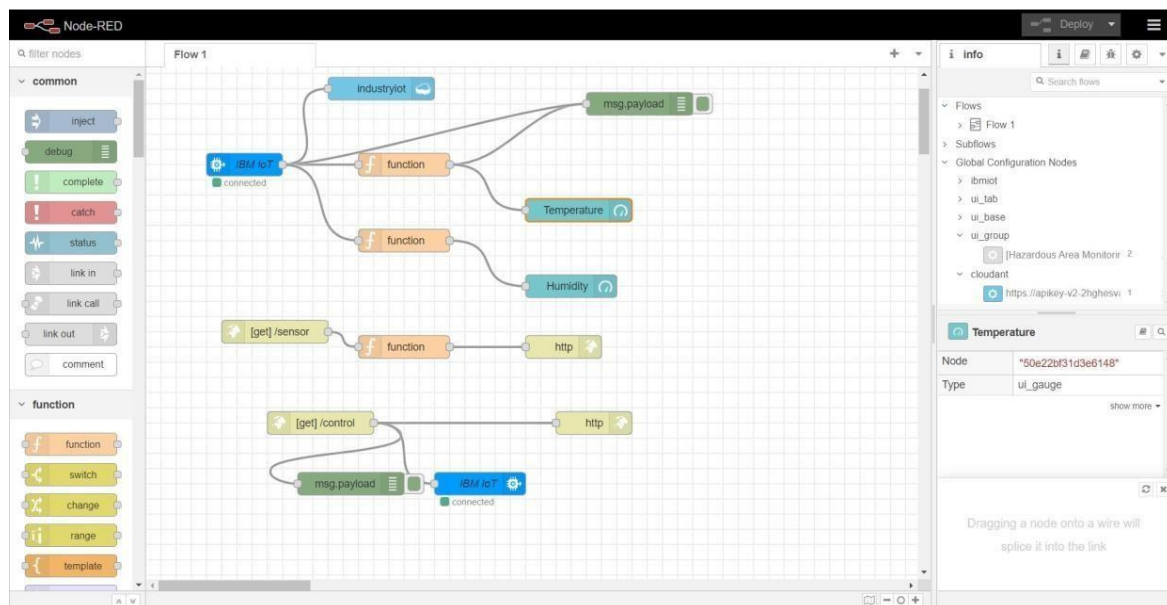


Configure The Application To Receive The Data From Cloud

Team Id	PNT2022TMID31392
Project Name	Hazardous area monitoring for industrial plant powered by IOT
Team Lead	Vignesh
Team Member 1	Mounika
Team Member 2	Yazhini Jeyam
Team Member 3	Santhosh

Node red flow created to get values



Configure The Application To Receive The Data From Cloud

Configuring function to fetch the desired value

The screenshot shows the Node-RED interface with a flow named 'Flow 1'. The flow includes an 'IBM IoT' node (connected), an 'industryiot' node, and three 'function' nodes. The 'function' nodes are connected to the 'industryiot' node and the 'msg.payload' output. The 'Edit function node' dialog is open, showing the 'On Message' tab. The code in the dialog is:

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

The dialog also shows the 'Properties' tab with a 'Name' field and a 'Setup' tab. The 'Enabled' checkbox is checked.

The screenshot shows the Node-RED interface with a flow named 'Flow 1'. The flow includes an 'IBM IoT' node (connected), an 'industryiot' node, and three 'function' nodes. The 'function' nodes are connected to the 'industryiot' node and the 'msg.payload' output. The 'Edit function node' dialog is open, showing the 'On Message' tab. The code in the dialog is:

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

The dialog also shows the 'Properties' tab with a 'Name' field and a 'Setup' tab. The 'Enabled' checkbox is checked.

Configure The Application To Receive The Data From Cloud

App Blocks to render the values and display it in app

The screenshot displays the 'IoT_Interface' application in the 'Designer' mode. The interface is divided into three main sections: a 'Blocks' panel on the left, a 'Viewer' area in the center, and a 'Media' panel at the bottom left.

Blocks Panel: This panel contains a 'Built-in' category with various blocks like Control, Logic, Math, Text, Lists, Dictionaries, Colors, Variables, and Procedures. It also lists 'Screen1' components including HorizontalArrangemen, Image1, VerticalScrollArrangen, Label1, Label2, and HorizontalArrangemen. A 'Media' section at the bottom allows for downloading or uploading files.

Viewer Area: This is where the logic flow is visualized. It contains three main event-driven blocks:

- When Clock1 - Timer:** This block triggers a sequence where 'Web1 - Uri' is set to 'http://159.122.177.234:30241/sensor', followed by a 'call Web1 - Get' action.
- When Web1 - GotText:** This block processes the response from the first web call. It uses a 'look up in pairs' block to extract 'temperature' and 'humidity' from the 'responseContent'. These values are then decoded using 'JsonTextDecode' and displayed in 'TextBox1' and 'TextBox2' respectively. Error handling for 'not found' is also included.
- When Button1 - Click:** This block triggers a 'Web2 - Uri' set to 'http://159.122.177.234:30241/control?command=mot...' followed by a 'call Web2 - Get' action.

Media Panel: This panel shows a 'download.jpg' button and an 'Upload File ...' button.