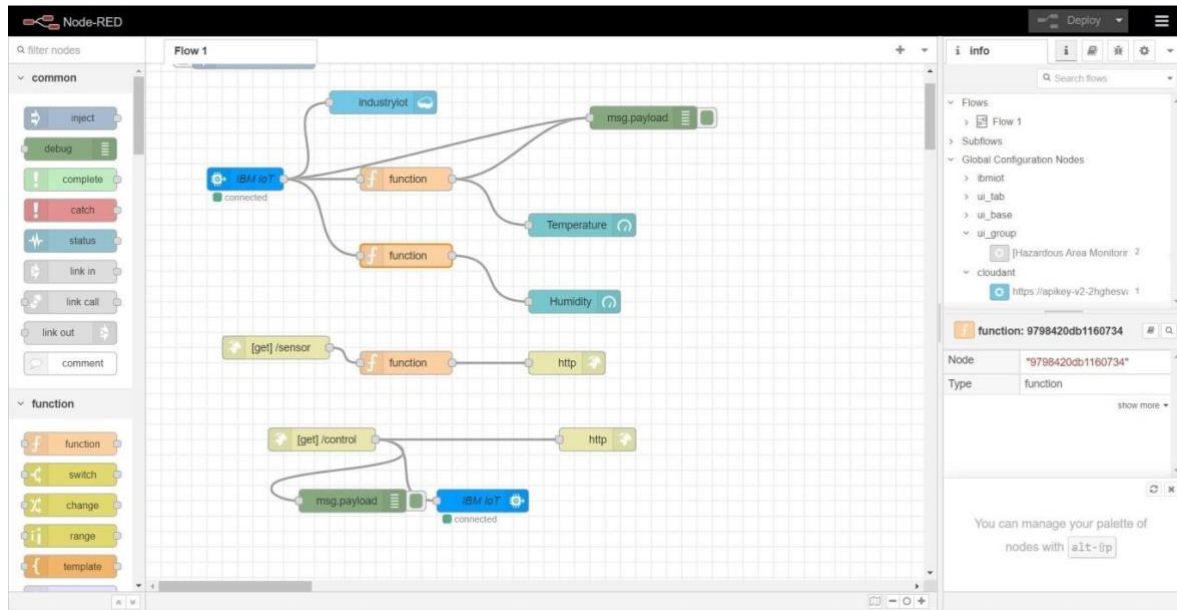


Develop The Web Application Using Node-RED

Team Id - PNT2022TMID20013
Maximum Marks - 4 Marks

Node red flow



Function blocks

The screenshot shows the Node-RED web interface. On the left, the 'common' and 'function' node palettes are visible. The main workspace contains a flow with an 'IBM IoT' node connected to two 'function' nodes. One 'function' node is selected, and its 'Edit function node' dialog is open. The dialog has tabs for 'Properties', 'Setup', 'On Start', 'On Message', and 'On Stop'. The 'On Message' tab is active, showing the following JavaScript code:

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

The right sidebar shows the 'info' tab with a tree view of the flow. The selected function node is highlighted with its ID '815cba7c7af38e65'.

This screenshot shows the same Node-RED interface as the first, but with a different JavaScript code snippet in the 'On Message' tab of the 'Edit function node' dialog:

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

The right sidebar 'info' tab now shows the selected function node with ID '9798420db1160734'. At the bottom of the sidebar, there is a note: 'Show the Info tab with ctrl-g i or the Debug tab with ctrl-g d'.

Node-RED

filter nodes

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch
- change
- range
- template

Flow 1

industryiot

ibm iot

function

function

[get] /sensor

function

[get] /control

msg.payload

ibm iot

ibm iot in node

Properties

- Authentication: API Key
- API Key: Industryiot
- Input Type: Device Event
- Device Type: All or NodeMCU
- Device Id: All or IoT001
- Event: All or +
- Format: All or json
- QoS: 0
- Name: IBM IoT
- Service: registered

Use the Input Type property to configure this node to receive Events sent by IoT Devices, Commands sent to IoT Devices, Status Messages referring to IoT Devices, or Status Messages referring to IoT Applications. Check the info tab, to get more information about each of the fields.

Enabled

Node-RED

filter nodes

common

- inject
- debug
- complete
- catch
- status
- link in
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- link out
- comment

function

- function
- switch
- change
- range
- template

Flow 1

industryiot

ibm iot

function

function

[get] /sensor

function

[get] /control

msg.payload

ibm iot

Edit function node

Properties

- Name: Name
- Setup
- On Start
- On Message
- On Stop

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

Enabled

info

Search flows

- Flows
- Subflows
- Global Configuration Nodes
- ibmiot
- ui_tab
- ui_base
- ui_group
- Hazardous Area Monitor
- cloudant
- https://apikey-v2-2hghesv

function: 9798420db1160734

Node: "9798420db1160734"

Type: function

Show the Info tab with `ctrl-g i` or the Debug tab with `ctrl-g d`

The screenshot displays the Node-RED web interface. On the left, the 'common' and 'function' node palettes are visible. The central workspace shows a flow titled 'Flow 1' with several nodes: an 'inject' node, a 'complete' node, a 'catch' node, a 'status' node, a 'link in' node, a 'link call' node, a 'link out' node, a 'comment' node, a 'function' node, a 'msg.payload' node, and a 'BME280' node. The 'function' node is selected, and the 'Edit gauge node' configuration panel is open on the right. This panel shows the node's properties, including its group, size, type, label, value format, units, range, color gradient, sectors, class, and name. The 'Temperature' node is configured with a range of 0 to 100 and a color gradient of green, yellow, and red. The right sidebar shows the 'info' panel with a search bar and a list of flows and subflows.