

Use Dashboard Nodes for Creating UI (Web Apps)

Team ID	PNT2022TMID34892
Project Name	Smart waste management system for metropolitan cities

Step 1: Open Node red and pick and place blocks according to python script flow Step2: Make sure necessary blocks are installed in Node Red Step 3: After creating the flow click on deploy Step 4: Output is displayed in Node-red Debug window Step 5: Also, web UI can also be seen by the URL followed by/ui

Screenshots: NODE – RED FLOW

Node-RED interface showing a flow with four parallel processing paths (Flow 1, Flow 1, Flow 1, Flow 4) connected to an IBM IoT node. The flow includes nodes for msg.payload, Distance, and LOAD cell, leading to http outputs.

The flow consists of four parallel processing paths, each starting with an IBM IoT node (connected) and a msg.payload node. The paths are labeled Flow 1, Flow 1, Flow 1, and Flow 4.

- Flow 1 (top):** msg.payload → Distance 1 → LOAD cell 1 → http.
- Flow 1 (middle):** msg.payload → Distance 2 → LOAD cell 2 → http.
- Flow 1 (bottom):** msg.payload → Distance 3 → LOAD cell 3 → http.
- Flow 4 (bottom):** msg.payload → Distance 4 → LOAD cell 4 → http.

The right sidebar shows the debug console with the following log entries:

```
msg.payload : string[36]
>alert :No need to collect right now
11/12/2022, 11:19:35 AM node:msg.payload
ex:2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : undefined
undefined
11/12/2022, 11:19:36 AM node:msg.payload
ex:2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : Object
{ dist: 48, load: 7 }
11/12/2022, 11:19:37 AM node:msg.payload
ex:2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : number
48
11/12/2022, 11:19:44 AM node:msg.payload
ex:2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : string[36]
>alert :No need to collect right now
11/12/2022, 11:19:45 AM node:msg.payload
ex:2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : undefined
undefined
11/12/2022, 11:19:46 AM node:msg.payload
ex:2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : Object
{ dist: 18, load: 9 }
11/12/2022, 11:19:47 AM node:msg.payload
ex:2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : number
18
11/12/2022, 11:19:54 AM node:msg.payload
ex:2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : string[36]
>alert :No need to collect right now
11/12/2022, 11:19:55 AM node:msg.payload
ex:2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : undefined
undefined
11/12/2022, 11:19:56 AM node:msg.payload
ex:2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : Object
{ dist: 38, load: 13 }
11/12/2022, 11:19:57 AM node:msg.payload
ex:2type:BIN4id:BIN4DevId:IoTSensor/mj/son:
msg.payload : number
38
```

NODE – RED UI

≡ control

control

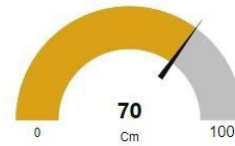
Distance 1



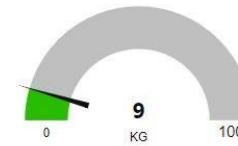
LOAD CELL 1



Distance 2



LOAD CELL 2



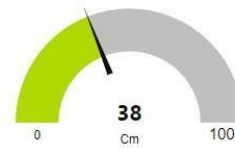
Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4



