

Use Dashboard Nodes for Creating UI (Web Apps)

Team ID	PNT2022TMID51244
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 four flows (Flow 1, Flow 1, Flow 1, Flow 4) and a debug console.

Flow 1 (Top): IBM IoT node (connected) → Distance 1 → msg.payload → Distance 1 (output) and LOAD cell 1 → LOAD CELL 1 (output).

Flow 1 (Middle): [get]/sensor → function 1 → http → msg.payload → Distance 2 → Distance 2 (output) and LOAD cell 2 → LOAD CELL 2 (output).

Flow 1 (Bottom): [get]/sensor → function 2 → http → msg.payload → Distance 3 → Distance 3 (output) and LOAD cell 3 → LOAD CELL 3 (output).

Flow 4: [get]/sensor → function 3 → http → msg.payload → Distance 4 → Distance 4 (output) and LOAD cell 4 → LOAD CELL 4 (output).

Debug Console:

```
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:35 AM node: msg.payload
{
  "type": "BIN4Id/BIN4IdDev/IsoTSensor/mj/son",
  "msg.payload": undefined
}
undefined

11/12/2022, 11:19:36 AM node: msg.payload
{
  "type": "BIN4Id/BIN4IdDev/IsoTSensor/mj/son",
  "msg.payload": Object
}
* { dist: 48, load: 7 }

11/12/2022, 11:19:37 AM node: msg.payload
{
  "type": "BIN4Id/BIN4IdDev/IsoTSensor/mj/son",
  "msg.payload": number
}
48

11/12/2022, 11:19:44 AM node: msg.payload
{
  "type": "BIN4Id/BIN4IdDev/IsoTSensor/mj/son",
  "msg.payload": string[36]
}
"alert :No need to collect right now"

11/12/2022, 11:19:45 AM node: msg.payload
{
  "type": "BIN4Id/BIN4IdDev/IsoTSensor/mj/son",
  "msg.payload": undefined
}
undefined

11/12/2022, 11:19:46 AM node: msg.payload
{
  "type": "BIN4Id/BIN4IdDev/IsoTSensor/mj/son",
  "msg.payload": Object
}
* { dist: 18, load: 9 }

11/12/2022, 11:19:47 AM node: msg.payload
{
  "type": "BIN4Id/BIN4IdDev/IsoTSensor/mj/son",
  "msg.payload": number
}
18

11/12/2022, 11:19:54 AM node: msg.payload
{
  "type": "BIN4Id/BIN4IdDev/IsoTSensor/mj/son",
  "msg.payload": string[36]
}
"alert :No need to collect right now"

11/12/2022, 11:19:55 AM node: msg.payload
{
  "type": "BIN4Id/BIN4IdDev/IsoTSensor/mj/son",
  "msg.payload": undefined
}
undefined

11/12/2022, 11:19:56 AM node: msg.payload
{
  "type": "BIN4Id/BIN4IdDev/IsoTSensor/mj/son",
  "msg.payload": Object
}
* { dist: 38, load: 13 }

11/12/2022, 11:19:57 AM node: msg.payload
{
  "type": "BIN4Id/BIN4IdDev/IsoTSensor/mj/son",
  "msg.payload": number
}
38
```

NODE – RED UI

≡ control

control

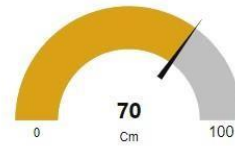
Distance 1



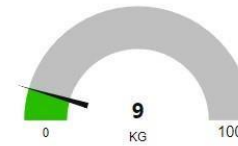
LOAD CELL 1



Distance 2



LOAD CELL 2



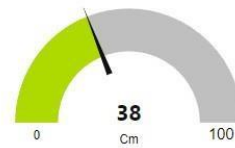
Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4

