

Use Dashboard Nodes for Creating UI (Web Apps)

Team ID	PNT2022TMID04392
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

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 consists of the following nodes and connections:

- Flow 1 (Top):** IBM IoT node (connected) → Distance 1 → msg.payload → Distance 1 → LOAD cell 1 → LOAD CELL 1.
- Flow 1 (Middle):** [get]/sensor → function 1 → http.
- Flow 1 (Bottom):** IBM IoT node (connected) → Distance 2 → msg.payload → Distance 2 → LOAD cell 2 → LOAD CELL 2.
- Flow 1 (Bottom):** [get]/sensor → function 2 → http.
- Flow 4 (Top):** IBM IoT node (connected) → Distance 3 → msg.payload → Distance 3 → LOAD cell 3 → LOAD CELL 3.
- Flow 4 (Bottom):** [get]/sensor → function 3 → http.
- Flow 4 (Bottom):** IBM IoT node (connected) → Distance 4 → msg.payload → Distance 4 → LOAD cell 4 → LOAD CELL 4.
- Flow 4 (Bottom):** [get]/sensor → function 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
src: 2type/BIN4Id/BIN4DlevltoTSensorfmi(son :
msg.payload : undefined
undefined

11/12/2022, 11:19:36 AM node: msg.payload
src: 2type/BIN4Id/BIN4DlevltoTSensorfmi(son :
msg.payload : Object
* { dist: 48, load: 7 }

11/12/2022, 11:19:37 AM node: msg.payload
src: 2type/BIN4Id/BIN4DlevltoTSensorfmi(son :
msg.payload : number
48

11/12/2022, 11:19:44 AM node: msg.payload
src: 2type/BIN4Id/BIN4DlevltoTSensorfmi(son :
msg.payload : string[36]
>alert :No need to collect right now

11/12/2022, 11:19:45 AM node: msg.payload
src: 2type/BIN4Id/BIN4DlevltoTSensorfmi(son :
msg.payload : undefined
undefined

11/12/2022, 11:19:46 AM node: msg.payload
src: 2type/BIN4Id/BIN4DlevltoTSensorfmi(son :
msg.payload : Object
* { dist: 18, load: 9 }

11/12/2022, 11:19:47 AM node: msg.payload
src: 2type/BIN4Id/BIN4DlevltoTSensorfmi(son :
msg.payload : number
18

11/12/2022, 11:19:54 AM node: msg.payload
src: 2type/BIN4Id/BIN4DlevltoTSensorfmi(son :
msg.payload : string[36]
>alert :No need to collect right now

11/12/2022, 11:19:55 AM node: msg.payload
src: 2type/BIN4Id/BIN4DlevltoTSensorfmi(son :
msg.payload : undefined
undefined

11/12/2022, 11:19:56 AM node: msg.payload
src: 2type/BIN4Id/BIN4DlevltoTSensorfmi(son :
msg.payload : Object
* { dist: 38, load: 13 }

11/12/2022, 11:19:57 AM node: msg.payload
src: 2type/BIN4Id/BIN4DlevltoTSensorfmi(son :
msg.payload : number
38
```

NODE – RED UI

≡ control

control

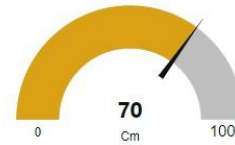
Distance 1



LOAD CELL 1



Distance 2



LOAD CELL 2



Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4

