

Use Dashboard Nodes for Creating UI (Web Apps)

Team ID	PNT2022TMID04058
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

The screenshot displays the Node-RED web interface with four parallel flows (Flow 1 to Flow 4) and a debug console on the right.

Flow 1: Starts with an **IBM IoT** node (connected), followed by a **msg.payload** node, then a **Distance 1** node, and finally a **LOAD CELL 1** node.

Flow 2: Starts with a **[get] /sensor** node, followed by a **function 1** node, then an **http** node.

Flow 3: Starts with an **IBM IoT** node (connected), followed by a **msg.payload** node, then a **Distance 2** node, and finally a **LOAD CELL 2** node.

Flow 4: Starts with a **[get] /sensor** node, followed by a **function 2** node, then an **http** node.

Flow 5: Starts with an **IBM IoT** node (connected), followed by a **msg.payload** node, then a **Distance 3** node, and finally a **LOAD CELL 3** node.

Flow 6: Starts with a **[get] /sensor** node, followed by a **function 3** node, then an **http** node.

Flow 7: Starts with an **IBM IoT** node (connected), followed by a **msg.payload** node, then a **Distance 4** node, and finally a **LOAD CELL 4** node.

Flow 8: Starts with a **[get] /sensor** node, followed by a **function 4** node, then an **http** node.

Debug Console: The right sidebar shows the debug console with a list of messages. The messages are:

- msg.payload : string[36]
- "alert :No need to collect right now"
- 11/12/2022, 11:19:38 AM node:msg.payload
iot:2type:BIN4Id:BIN4DeviceId:TSensor/rnt/json:
msg.payload : undefined
- undefined
- 11/12/2022, 11:19:38 AM node:msg.payload
iot:2type:BIN4Id:BIN4DeviceId:TSensor/rnt/json:
msg.payload : Object
- * { dist: 48, load: 7 }
- 11/12/2022, 11:19:37 AM node:msg.payload
iot:2type:BIN4Id:BIN4DeviceId:TSensor/rnt/json:
msg.payload : number
- 48
- 11/12/2022, 11:19:44 AM node:msg.payload
iot:2type:BIN4Id:BIN4DeviceId:TSensor/rnt/json:
msg.payload : string[36]
- "alert :No need to collect right now"
- 11/12/2022, 11:19:45 AM node:msg.payload
iot:2type:BIN4Id:BIN4DeviceId:TSensor/rnt/json:
msg.payload : undefined
- undefined
- 11/12/2022, 11:19:46 AM node:msg.payload
iot:2type:BIN4Id:BIN4DeviceId:TSensor/rnt/json:
msg.payload : Object
- * { dist: 18, load: 9 }
- 11/12/2022, 11:19:47 AM node:msg.payload
iot:2type:BIN4Id:BIN4DeviceId:TSensor/rnt/json:
msg.payload : number
- 18
- 11/12/2022, 11:19:54 AM node:msg.payload
iot:2type:BIN4Id:BIN4DeviceId:TSensor/rnt/json:
msg.payload : string[36]
- "alert :No need to collect right now"
- 11/12/2022, 11:19:55 AM node:msg.payload
iot:2type:BIN4Id:BIN4DeviceId:TSensor/rnt/json:
msg.payload : undefined
- undefined
- 11/12/2022, 11:19:56 AM node:msg.payload
iot:2type:BIN4Id:BIN4DeviceId:TSensor/rnt/json:
msg.payload : Object
- * { dist: 38, load: 13 }
- 11/12/2022, 11:19:57 AM node:msg.payload
iot:2type:BIN4Id:BIN4DeviceId:TSensor/rnt/json:
msg.payload : number
- 38

NODE – RED UI

≡ control

control

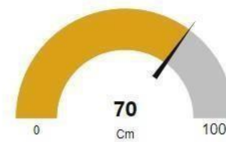
Distance 1



LOAD CELL 1



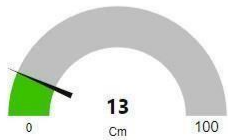
Distance 2



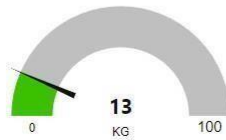
LOAD CELL 2



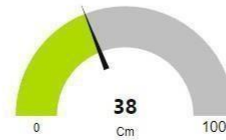
Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4



