

Use Dashboard Nodes for Creating UI (Web Apps)

Team ID	PNT2022TMID08724
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. The interface includes a left sidebar with node categories (common, function, network) and a top bar with tabs for each flow.

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, and finally 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, and finally 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, and finally 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, and finally an `http` node.

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

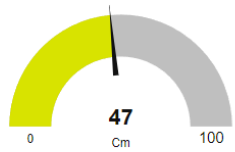
- 11/12/2022, 11:19:35 AM: mode: msg.payload; payload: undefined; alert: No need to collect right now
- 11/12/2022, 11:19:36 AM: mode: msg.payload; payload: { dist: 48, load: 7 }
- 11/12/2022, 11:19:37 AM: mode: msg.payload; payload: 48
- 11/12/2022, 11:19:44 AM: mode: msg.payload; payload: { dist: 18, load: 9 }
- 11/12/2022, 11:19:45 AM: mode: msg.payload; payload: 18
- 11/12/2022, 11:19:54 AM: mode: msg.payload; payload: { dist: 38, load: 13 }
- 11/12/2022, 11:19:55 AM: mode: msg.payload; payload: 38

NODE – RED UI

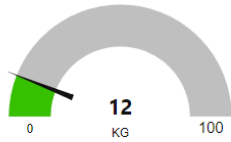
≡ control

control

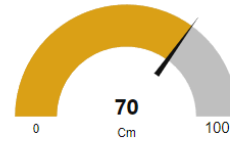
Distance 1



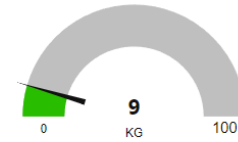
LOAD CELL 1



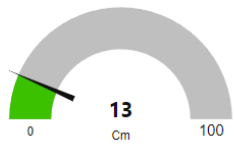
Distance 2



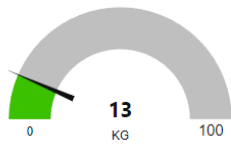
LOAD CELL 2



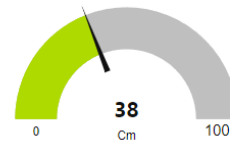
Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4

