

### Use Dashboard Nodes for Creating UI (Web Apps)

Team ID	PNT2022TMID52815
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 in a browser. The top bar shows the URL: `node-red-csws-2022-11-15.eu-gb.mybluemix.net/red/#flow/2f2acebf400bcd1b`. The interface includes a left sidebar with a node palette (containing 'tone analyzer v3' and a 'dashboard' section with various input/output nodes) and a central workspace labeled 'Flow 1'. The flow consists of an 'IBM IoT' node connected to two 'function' nodes. Each 'function' node is connected to a 'msg.payload' node, which in turn is connected to a 'gauge' node. The right sidebar shows the 'debug' console with a list of incoming messages. Each message is a JSON object with a 'payload' property containing a numeric value.

**Flow Diagram:**

```
graph LR; IoT[IBM IoT] --> F1[function]; IoT --> F2[function]; F1 --> MP[msg.payload]; F2 --> MP; MP --> G1[gauge]; MP --> G2[gauge];
```

**Debug Console Log:**

Time	Node ID	Message
11/18/2022, 4:20:51 PM	node: 9e752e12eff81747	<code>{ "type": "NodeMCUId/Anu/ev1/IoTSensor/rms/json", "msg": { "payload": 7 } }</code>
11/18/2022, 4:20:52 PM	node: 9e752e12eff81747	<code>{ "type": "NodeMCUId/Anu/ev1/IoTSensor/rms/json", "msg": { "payload": 4 } }</code>
11/18/2022, 4:20:53 PM	node: 9e752e12eff81747	<code>{ "type": "NodeMCUId/Anu/ev1/IoTSensor/rms/json", "msg": { "payload": 27 } }</code>
11/18/2022, 4:20:54 PM	node: 9e752e12eff81747	<code>{ "type": "NodeMCUId/Anu/ev1/IoTSensor/rms/json", "msg": { "payload": 85 } }</code>
11/18/2022, 4:20:55 PM	node: 9e752e12eff81747	<code>{ "type": "NodeMCUId/Anu/ev1/IoTSensor/rms/json", "msg": { "payload": 16 } }</code>
11/18/2022, 4:20:56 PM	node: 9e752e12eff81747	<code>{ "type": "NodeMCUId/Anu/ev1/IoTSensor/rms/json", "msg": { "payload": 16 } }</code>

## NODE – RED UI

