

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

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Project Name	Smart waste management system for metropolitan cities

Step 1: Open Node red and pick and place blocks according to python scriptflow

Step2: Make sure necessary blocks are installed in Node RedStep 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, Flow 1, Flow 1, and Flow 4) running on a single tab. Each flow processes data from an IoT sensor (BM IoT) and outputs it via HTTP.

**Flow 1 (Top):** The IoT sensor node is connected to a function node labeled "Distance 1". The function node's output is split into two paths: one leading to a "msg.payload" node and another leading to a "Distance 1" output node. The "Distance 1" output node is connected to a "LOAD CELL 1" output node.

**Flow 1 (Second):** The IoT sensor node is connected to a function node labeled "function 1". The function node's output is split into two paths: one leading to a "msg.payload" node and another leading to a "Distance 2" output node. The "Distance 2" output node is connected to a "LOAD CELL 2" output node.

**Flow 1 (Third):** The IoT sensor node is connected to a function node labeled "function 2". The function node's output is split into two paths: one leading to a "msg.payload" node and another leading to a "Distance 3" output node. The "Distance 3" output node is connected to a "LOAD CELL 3" output node.

**Flow 4 (Bottom):** The IoT sensor node is connected to a function node labeled "function 3". The function node's output is split into two paths: one leading to a "msg.payload" node and another leading to a "Distance 4" output node. The "Distance 4" output node is connected to a "LOAD CELL 4" output node.

The right sidebar shows the debug console with a log of messages. The messages are structured as follows:

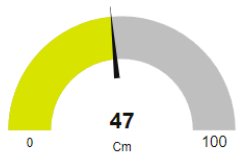
```
msg.payload : string[36]
"alert :No need to collect right now"
11/12/2022, 11:19:35 AM node: msg.payload
iot-2type/BINA4d/BINA4d/ev/IsTSensor/mj/son :
msg.payload : undefined
undefined
11/12/2022, 11:19:36 AM node: msg.payload
iot-2type/BINA4d/BINA4d/ev/IsTSensor/mj/son :
msg.payload : Object
{ dist: 48, load: 7 }
11/12/2022, 11:19:37 AM node: msg.payload
iot-2type/BINA4d/BINA4d/ev/IsTSensor/mj/son :
msg.payload : number
48
11/12/2022, 11:19:44 AM node: msg.payload
iot-2type/BINA4d/BINA4d/ev/IsTSensor/mj/son :
msg.payload : string[36]
"alert :No need to collect right now"
11/12/2022, 11:19:45 AM node: msg.payload
iot-2type/BINA4d/BINA4d/ev/IsTSensor/mj/son :
msg.payload : undefined
undefined
11/12/2022, 11:19:46 AM node: msg.payload
iot-2type/BINA4d/BINA4d/ev/IsTSensor/mj/son :
msg.payload : Object
{ dist: 18, load: 9 }
11/12/2022, 11:19:47 AM node: msg.payload
iot-2type/BINA4d/BINA4d/ev/IsTSensor/mj/son :
msg.payload : number
18
11/12/2022, 11:19:54 AM node: msg.payload
iot-2type/BINA4d/BINA4d/ev/IsTSensor/mj/son :
msg.payload : string[36]
"alert :No need to collect right now"
11/12/2022, 11:19:55 AM node: msg.payload
iot-2type/BINA4d/BINA4d/ev/IsTSensor/mj/son :
msg.payload : undefined
undefined
11/12/2022, 11:19:56 AM node: msg.payload
iot-2type/BINA4d/BINA4d/ev/IsTSensor/mj/son :
msg.payload : Object
{ dist: 38, load: 13 }
11/12/2022, 11:19:57 AM node: msg.payload
iot-2type/BINA4d/BINA4d/ev/IsTSensor/mj/son :
msg.payload : number
38
```

# NODE-RED UI

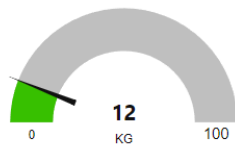
≡ control

control

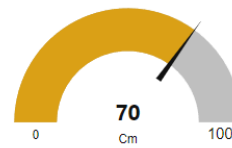
Distance 1



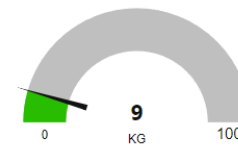
LOAD CELL 1



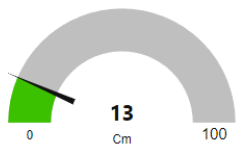
Distance 2



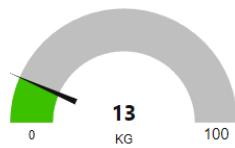
LOAD CELL 2



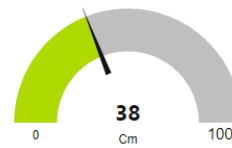
Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4

