

Use Dashboard Nodes for Creating UI (Web Apps)

Team ID	PNT2022TMID26604
Project Name	Smart waste management system formetropolitan cities

Steps Involved:

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 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.

The debug console on the right shows a series of messages, including alerts and data objects, indicating the flow's execution status and data flow.

```
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:35 AM mode: msg.payload
iot-2?type=BIN44d@BIN44D@evlfoTSensor@ml@son :
msg.payload : undefined
undefined

11/12/2022, 11:19:36 AM mode: msg.payload
iot-2?type=BIN44d@BIN44D@evlfoTSensor@ml@son :
msg.payload : Object
{ dist: 48, load: 7 }

11/12/2022, 11:19:37 AM mode: msg.payload
iot-2?type=BIN44d@BIN44D@evlfoTSensor@ml@son :
msg.payload : number
48

11/12/2022, 11:19:44 AM mode: msg.payload
iot-2?type=BIN44d@BIN44D@evlfoTSensor@ml@son :
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:45 AM mode: msg.payload
iot-2?type=BIN44d@BIN44D@evlfoTSensor@ml@son :
msg.payload : undefined
undefined

11/12/2022, 11:19:46 AM mode: msg.payload
iot-2?type=BIN44d@BIN44D@evlfoTSensor@ml@son :
msg.payload : Object
{ dist: 18, load: 9 }

11/12/2022, 11:19:47 AM mode: msg.payload
iot-2?type=BIN44d@BIN44D@evlfoTSensor@ml@son :
msg.payload : number
18

11/12/2022, 11:19:54 AM mode: msg.payload
iot-2?type=BIN44d@BIN44D@evlfoTSensor@ml@son :
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:55 AM mode: msg.payload
iot-2?type=BIN44d@BIN44D@evlfoTSensor@ml@son :
msg.payload : undefined
undefined

11/12/2022, 11:19:56 AM mode: msg.payload
iot-2?type=BIN44d@BIN44D@evlfoTSensor@ml@son :
msg.payload : Object
{ dist: 38, load: 13 }

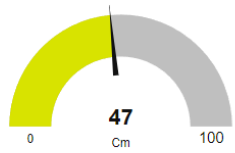
11/12/2022, 11:19:57 AM mode: msg.payload
iot-2?type=BIN44d@BIN44D@evlfoTSensor@ml@son :
msg.payload : number
38
```

NODE – RED UI

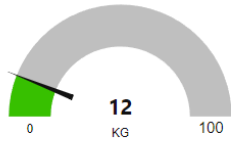
≡ control

control

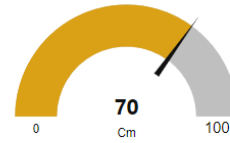
Distance 1



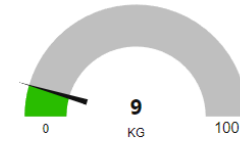
LOAD CELL 1



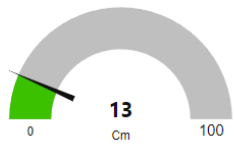
Distance 2



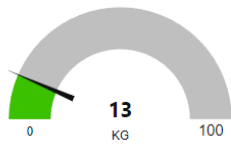
LOAD CELL 2



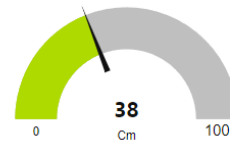
Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4

