

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 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

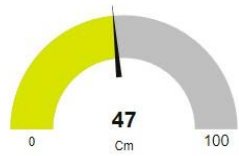
Node-RED interface showing a flow with four parallel processing paths (Flow 1, Flow 1, Flow 1, Flow 4) connected to an IBM IoT gateway. The flow includes nodes for inject, debug, complete, catch, status, link in, link call, link out, and comment. The function nodes are labeled Distance 1, Distance 2, Distance 3, Distance 4, LOAD cell 1, LOAD cell 2, LOAD cell 3, and LOAD cell 4. The output nodes are msg.payload, Distance 1, Distance 2, Distance 3, Distance 4, LOAD CELL 1, LOAD CELL 2, LOAD CELL 3, and LOAD CELL 4. The flow is connected to an IBM IoT gateway and an http endpoint.

The debug console shows the following log entries:

```
msg.payload : string[36]
*alert :No need to collect right now
11/12/2022, 11:19:35 AM  mode: msg.payload
iot-2type:BIN4Id:BIN4IDev:IoT-Sensor/mj/son :
msg.payload : undefined
undefined
11/12/2022, 11:19:36 AM  mode: msg.payload
iot-2type:BIN4Id:BIN4IDev:IoT-Sensor/mj/son :
msg.payload : Object
* { dist: 48, load: 7 }
11/12/2022, 11:19:37 AM  mode: msg.payload
iot-2type:BIN4Id:BIN4IDev:IoT-Sensor/mj/son :
msg.payload : number
48
11/12/2022, 11:19:44 AM  mode: msg.payload
iot-2type:BIN4Id:BIN4IDev:IoT-Sensor/mj/son :
msg.payload : string[36]
*alert :No need to collect right now
11/12/2022, 11:19:45 AM  mode: msg.payload
iot-2type:BIN4Id:BIN4IDev:IoT-Sensor/mj/son :
msg.payload : undefined
undefined
11/12/2022, 11:19:46 AM  mode: msg.payload
iot-2type:BIN4Id:BIN4IDev:IoT-Sensor/mj/son :
msg.payload : Object
* { dist: 18, load: 9 }
11/12/2022, 11:19:47 AM  mode: msg.payload
iot-2type:BIN4Id:BIN4IDev:IoT-Sensor/mj/son :
msg.payload : number
18
11/12/2022, 11:19:54 AM  mode: msg.payload
iot-2type:BIN4Id:BIN4IDev:IoT-Sensor/mj/son :
msg.payload : string[36]
*alert :No need to collect right now
11/12/2022, 11:19:55 AM  mode: msg.payload
iot-2type:BIN4Id:BIN4IDev:IoT-Sensor/mj/son :
msg.payload : undefined
undefined
11/12/2022, 11:19:56 AM  mode: msg.payload
iot-2type:BIN4Id:BIN4IDev:IoT-Sensor/mj/son :
msg.payload : Object
* { dist: 38, load: 13 }
11/12/2022, 11:19:57 AM  mode: msg.payload
iot-2type:BIN4Id:BIN4IDev:IoT-Sensor/mj/son :
msg.payload : number
38
```

NODE – RED UI

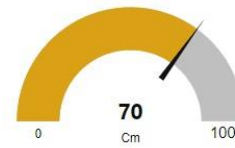
Distance 1



LOAD CELL 1



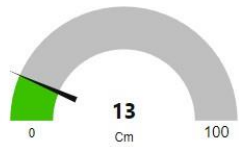
Distance 2



LOAD CELL 2



Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4

