

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 2, Flow 3, Flow 4) connected to an IBM IoT node. The flow includes nodes for [get] /sensor, function nodes (function 1, function 2, function 3, function 4), msg.payload, and http nodes. The debug console on the right displays the output of the flow, showing the payload structure and the alert message: "alert :No need to collect right now".

The flow consists of four parallel processing paths, each connected to an IBM IoT node. Each path includes a [get] /sensor node, a function node (function 1, function 2, function 3, function 4), a msg.payload node, and an http node. The function nodes are connected to the msg.payload node, which is then connected to the http node. The function nodes are also connected to a msg.payload node, which is then connected to the http node. The function nodes are also connected to a msg.payload node, which is then connected to the http node.

The debug console on the right displays the output of the flow, showing the payload structure and the alert message: "alert :No need to collect right now".

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

11/12/2022, 11:19:35 AM node: msg.payload
iot:2htype@BN4kd@BN4ID@evthoTSensor@fmt@son:
msg.payload : undefined
undefined

11/12/2022, 11:19:36 AM node: msg.payload
iot:2htype@BN4kd@BN4ID@evthoTSensor@fmt@son:
msg.payload : Object
* { dist: 48, load: 7 }
48

11/12/2022, 11:19:37 AM node: msg.payload
iot:2htype@BN4kd@BN4ID@evthoTSensor@fmt@son:
msg.payload : number
48

11/12/2022, 11:19:44 AM node: msg.payload
iot:2htype@BN4kd@BN4ID@evthoTSensor@fmt@son:
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:45 AM node: msg.payload
iot:2htype@BN4kd@BN4ID@evthoTSensor@fmt@son:
msg.payload : undefined
undefined

11/12/2022, 11:19:46 AM node: msg.payload
iot:2htype@BN4kd@BN4ID@evthoTSensor@fmt@son:
msg.payload : Object
* { dist: 18, load: 9 }
18

11/12/2022, 11:19:54 AM node: msg.payload
iot:2htype@BN4kd@BN4ID@evthoTSensor@fmt@son:
msg.payload : string[36]
"alert :No need to collect right now"

11/12/2022, 11:19:55 AM node: msg.payload
iot:2htype@BN4kd@BN4ID@evthoTSensor@fmt@son:
msg.payload : undefined
undefined

11/12/2022, 11:19:56 AM node: msg.payload
iot:2htype@BN4kd@BN4ID@evthoTSensor@fmt@son:
msg.payload : Object
* { dist: 38, load: 13 }
38

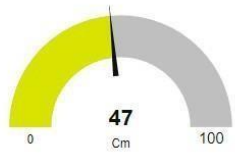
11/12/2022, 11:19:57 AM node: msg.payload
iot:2htype@BN4kd@BN4ID@evthoTSensor@fmt@son:
msg.payload : number
38
```

NODE – RED UI

≡ control

control

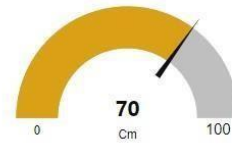
Distance 1



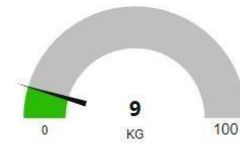
LOAD CELL 1



Distance 2



LOAD CELL 2



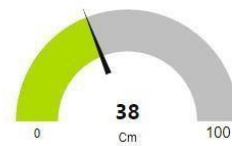
Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4



