

DEVELOP A WEB APPLICATION USING NODE-RED SERVICE

USE DASHBOARD NODES FOR CREATING UI (WEB APP)

Date	15 November 2022
Team ID	PNT2022TMID18889
Project Name	Smart Waste Management System For Metropolitan Cities
Maximum Marks	8 Marks

Node-RED

Deploy

filter nodes

Flow 1

dashboard

button

dropdown

switch

slider

numeric

gauge

form

notification

chart

colour picker

date picker

text input

IBM IoT

connected

Temp

Humidity

Moisture

msg payload

Temp

Hum

Moisture

debug

all nodes

all

11/5/2022, 6:39:36 PM node: f2f2648a-0d0d98
iot-2/type/123/id/123456/evt/eventtest/mnt/json
msg.payload: Object
* { randomNumber: 93, temp: 62, hum: 96 }

11/5/2022, 6:39:37 PM node: f2f2648a-0d0d98
iot-2/type/123/id/123_2/evt/eventtest/mnt/json
msg.payload: Object
* { randomNumber: 36, temp: 45, hum: 87 }

11/5/2022, 6:39:38 PM node: f2f2648a-0d0d98
iot-2/type/123/id/123456/evt/eventtest/mnt/json
msg.payload: number
62

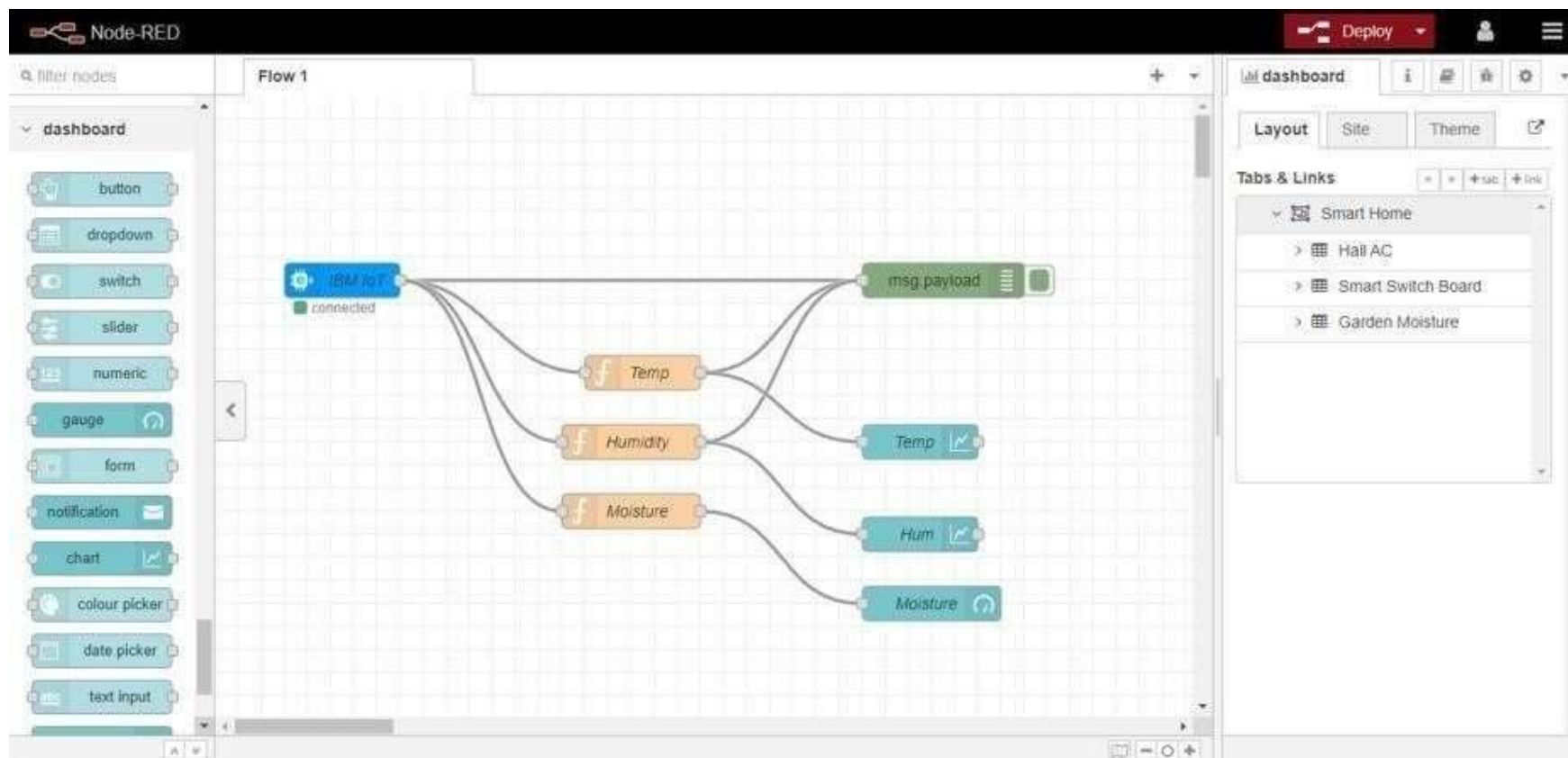
11/5/2022, 6:39:39 PM node: f2f2648a-0d0d98
iot-2/type/123/id/123456/evt/eventtest/mnt/json
msg.payload: number
96

11/5/2022, 6:39:40 PM node: f2f2648a-0d0d98
iot-2/type/123/id/123_2/evt/eventtest/mnt/json
msg.payload: number
45

11/5/2022, 6:39:41 PM node: f2f2648a-0d0d98

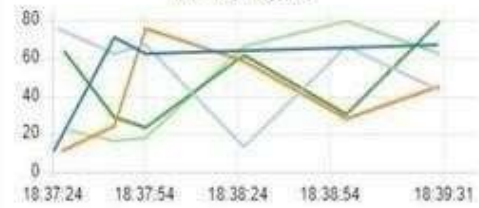
```
graph LR; IoT[IBM IoT] --> MP[msg payload]; IoT --> Temp1[Temp]; IoT --> Hum1[Humidity]; IoT --> Moist1[Moisture]; MP --> Temp2[Temp]; MP --> Hum2[Hum]; MP --> Moist2[Moisture];
```

The diagram illustrates a Node-RED flow for processing IoT data. It begins with an 'IBM IoT' node, which is currently 'connected'. This node branches into four parallel paths. The first path leads to a 'msg payload' node, which then feeds into three separate dashboard widgets: 'Temp', 'Hum', and 'Moisture'. The other three paths from the 'IBM IoT' node also lead to 'Temp', 'Humidity', and 'Moisture' dashboard widgets respectively. The dashboard widgets are represented by orange boxes with corresponding icons. The 'debug' console on the right shows the raw data being received, including timestamps, node IDs, and the payload structure, which includes a random number and sensor readings for temperature, humidity, and moisture.

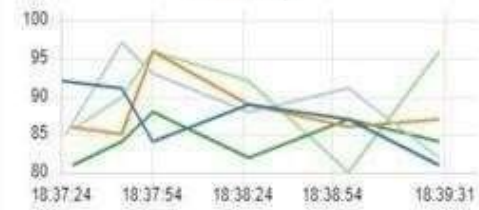


Hall AC

Temperature



Humidity



Garden Moisture

Soil Moisture

