

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

Team ID	PNT2022TMID30432
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 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

filter nodes

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

switch

change

range

template

delay

trigger

exec

filter

network

mqtt in

mqtt out

http in

http response

http request

websocket in

Flow 1

Flow 1

Flow 1

Flow 4

IBM IoT

connected

Distance 1

LOAD cell 1

msg.payload

Distance 1

LOAD CELL 1

[get] /sensor

function 1

http

IBM IoT

connected

Distance 2

LOAD cell 2

msg.payload

Distance 2

LOAD CELL 2

[get] /sensor

function 2

http

IBM IoT

connected

Distance 3

LOAD cell 3

msg.payload

Distance 3

LOAD CELL 3

[get] /sensor

function 3

http

IBM IoT

connected

Distance 4

LOAD cell 4

msg.payload

Distance 4

LOAD CELL 4

[get] /sensor

function 4

http

debug

all nodes

all

msg.payload : string[36]

"alert :No need to collect right now"

11/12/2022, 11:19:35 AM node: msg.payload

iot-2?type=BIN4Id@BIN4D/evs/IoTSensor/fmt/json :

msg.payload : undefined

undefined

11/12/2022, 11:19:36 AM node: msg.payload

iot-2?type=BIN4Id@BIN4D/evs/IoTSensor/fmt/json :

msg.payload : Object

{ dist: 48, load: 7 }

11/12/2022, 11:19:37 AM node: msg.payload

iot-2?type=BIN4Id@BIN4D/evs/IoTSensor/fmt/json :

msg.payload : number

48

11/12/2022, 11:19:44 AM node: msg.payload

iot-2?type=BIN4Id@BIN4D/evs/IoTSensor/fmt/json :

msg.payload : string[36]

"alert :No need to collect right now"

undefined

11/12/2022, 11:19:45 AM node: msg.payload

iot-2?type=BIN4Id@BIN4D/evs/IoTSensor/fmt/json :

msg.payload : undefined

undefined

11/12/2022, 11:19:46 AM node: msg.payload

iot-2?type=BIN4Id@BIN4D/evs/IoTSensor/fmt/json :

msg.payload : Object

{ dist: 18, load: 9 }

11/12/2022, 11:19:47 AM node: msg.payload

iot-2?type=BIN4Id@BIN4D/evs/IoTSensor/fmt/json :

msg.payload : number

18

11/12/2022, 11:19:54 AM node: msg.payload

iot-2?type=BIN4Id@BIN4D/evs/IoTSensor/fmt/json :

msg.payload : string[36]

"alert :No need to collect right now"

undefined

11/12/2022, 11:19:55 AM node: msg.payload

iot-2?type=BIN4Id@BIN4D/evs/IoTSensor/fmt/json :

msg.payload : undefined

undefined

11/12/2022, 11:19:56 AM node: msg.payload

iot-2?type=BIN4Id@BIN4D/evs/IoTSensor/fmt/json :

msg.payload : Object

{ dist: 38, load: 13 }

11/12/2022, 11:19:57 AM node: msg.payload

iot-2?type=BIN4Id@BIN4D/evs/IoTSensor/fmt/json :

msg.payload : number

38

Links

24°C Cloudy

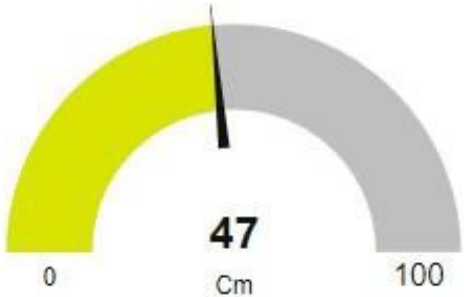
ENG 11:26

NODE – RED UI

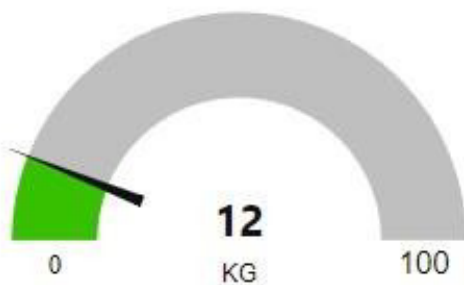
≡ control

control

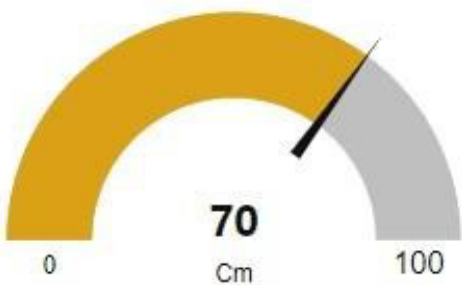
Distance 1



LOAD CELL 1



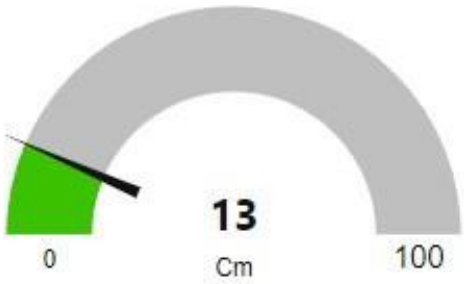
Distance 2



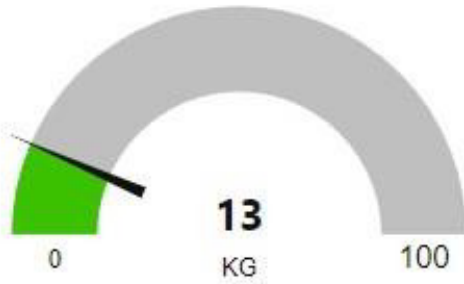
LOAD CELL 2



Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4

