BUILD A WEB APPLICATION USING NODE RED

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Date	19/10/2022
Topic	Building web application using Node red

Goal:

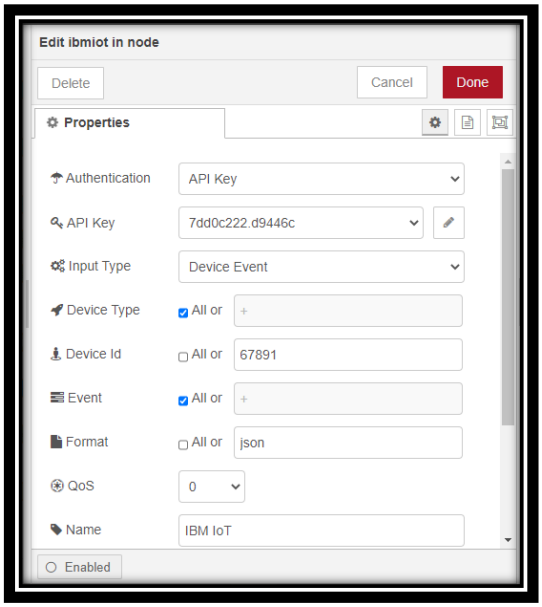
To build a web application using node red.

Steps:

- Open the Node-Red website which you have created in the previous step. Insert the corresponding IBM IoT nodes and other kind of sensors and motor switches.
- Finally, click on the deploy option in the right-side panel.
- Visualize the results in the Node- Red where the URL is followed by /data.
- Visualize the comments in Node- Red review URL followed by /comment.
- On clicking on the IBM IoT, note you have to enter the device credentials of the device you have created in the Watson IBM platform.
- On taking the functions of soil moisture humidity and temperature enter the functionality they must perform in the property setup formatting ah one center the function is soil moisture value less than 20 then generate a message and then in the corresponding HTTP request enter the URL of bulk SMS to send the message to the given contact number.
- On clicking on the motor on function, give the payload value as json command.
- Repeat the same for the motor off.

Output:

IBM IOT INPUT NODE:

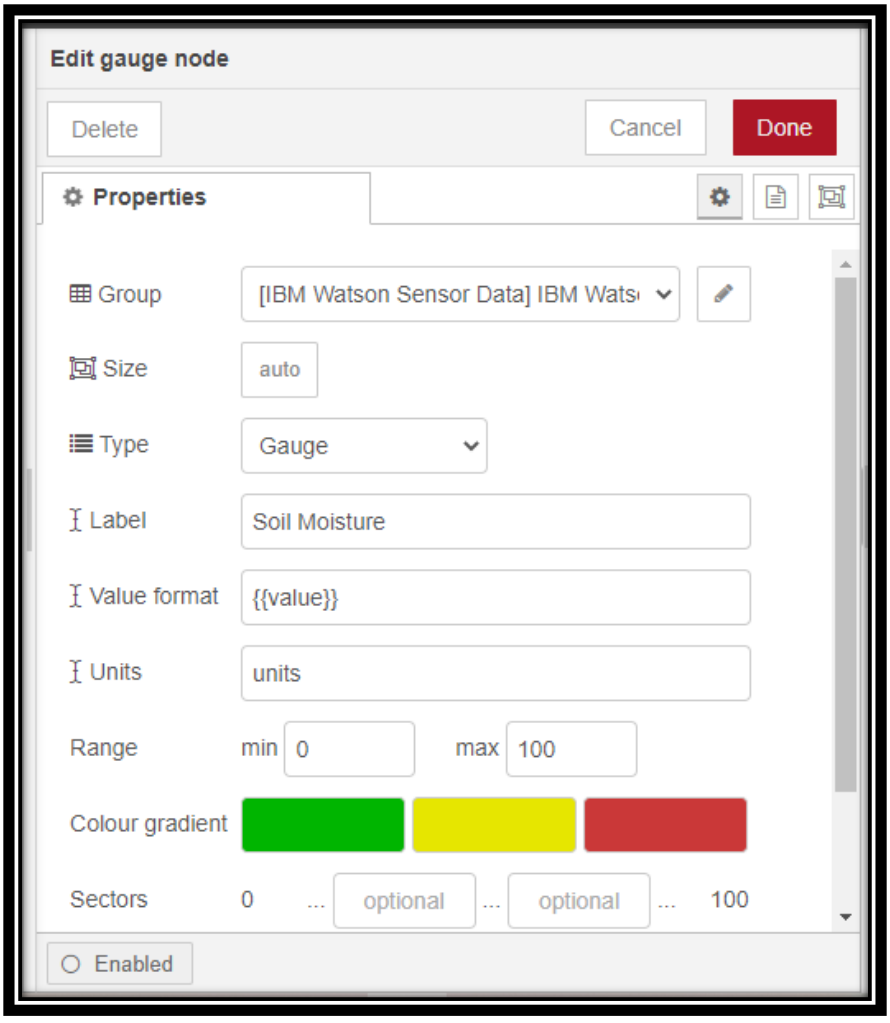


SOIL MOISTURE FUNCTION:

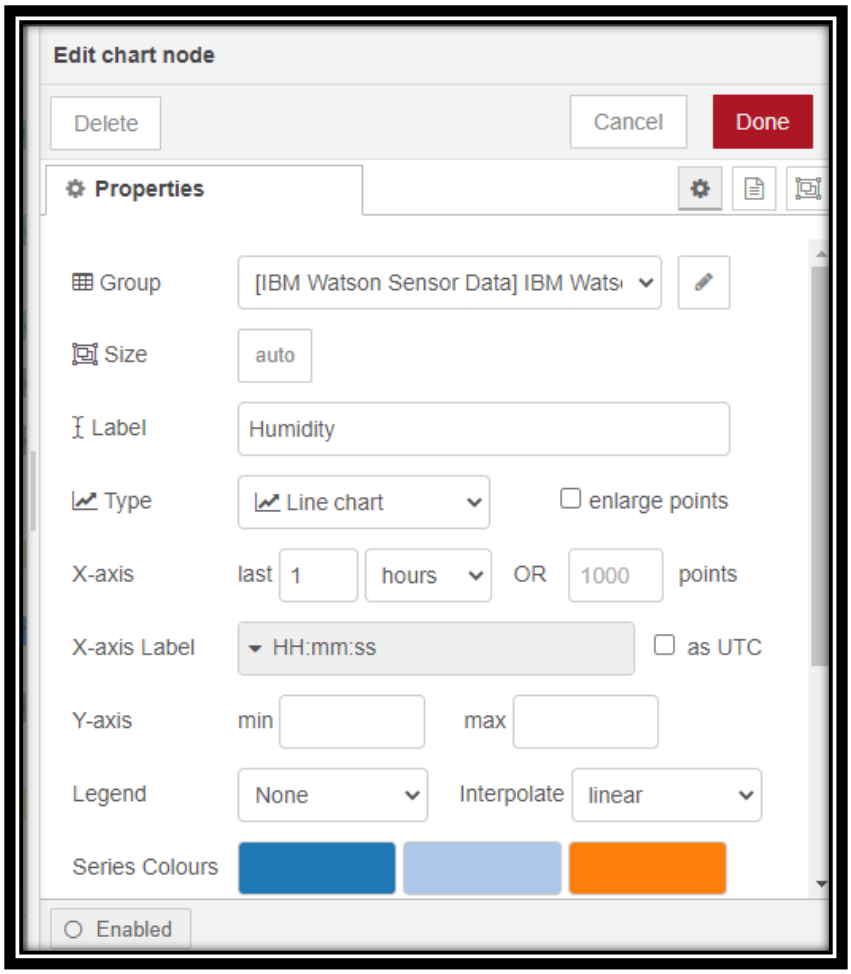
HUMIDITY FUNCTION:

TEMPERATURE FUNCTION:

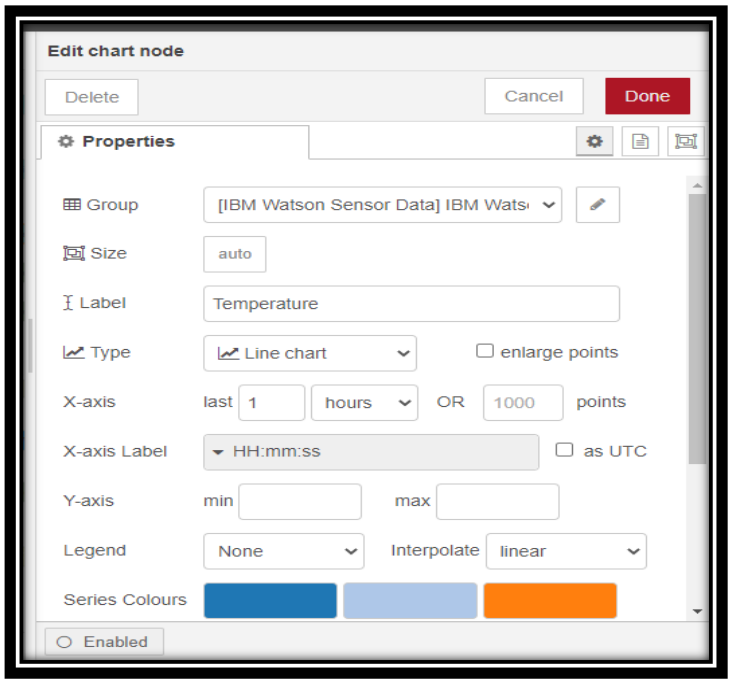
SOIL MOISTURE GAUGE:



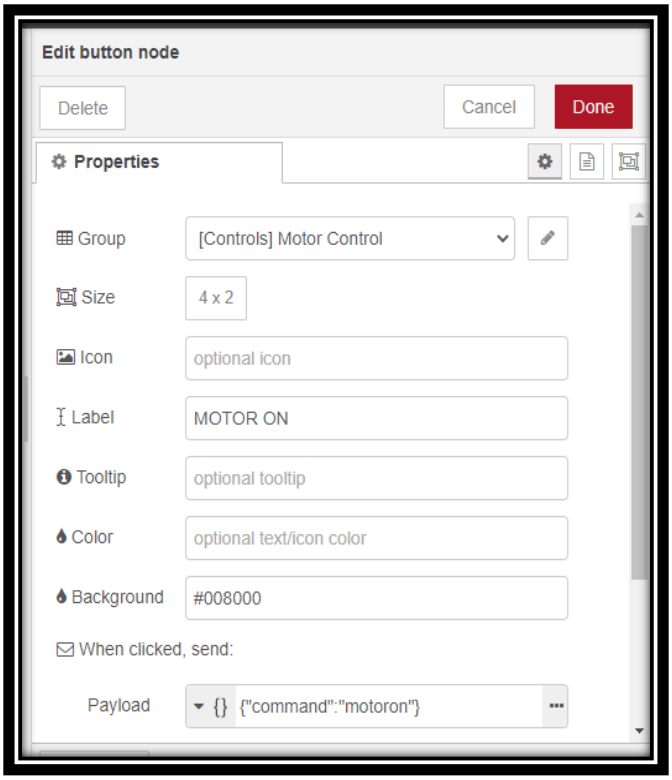
HUMIDITY CHART:



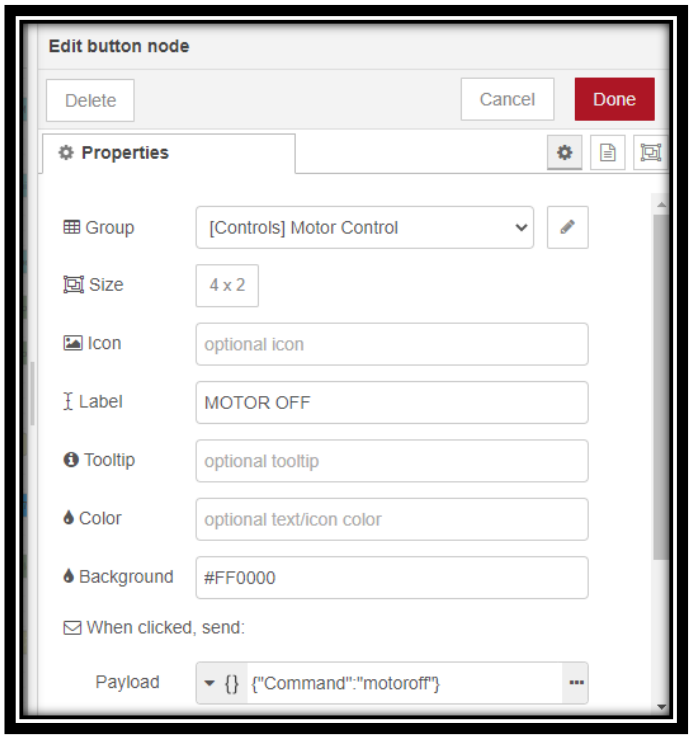
TEMPERATURE CHART:

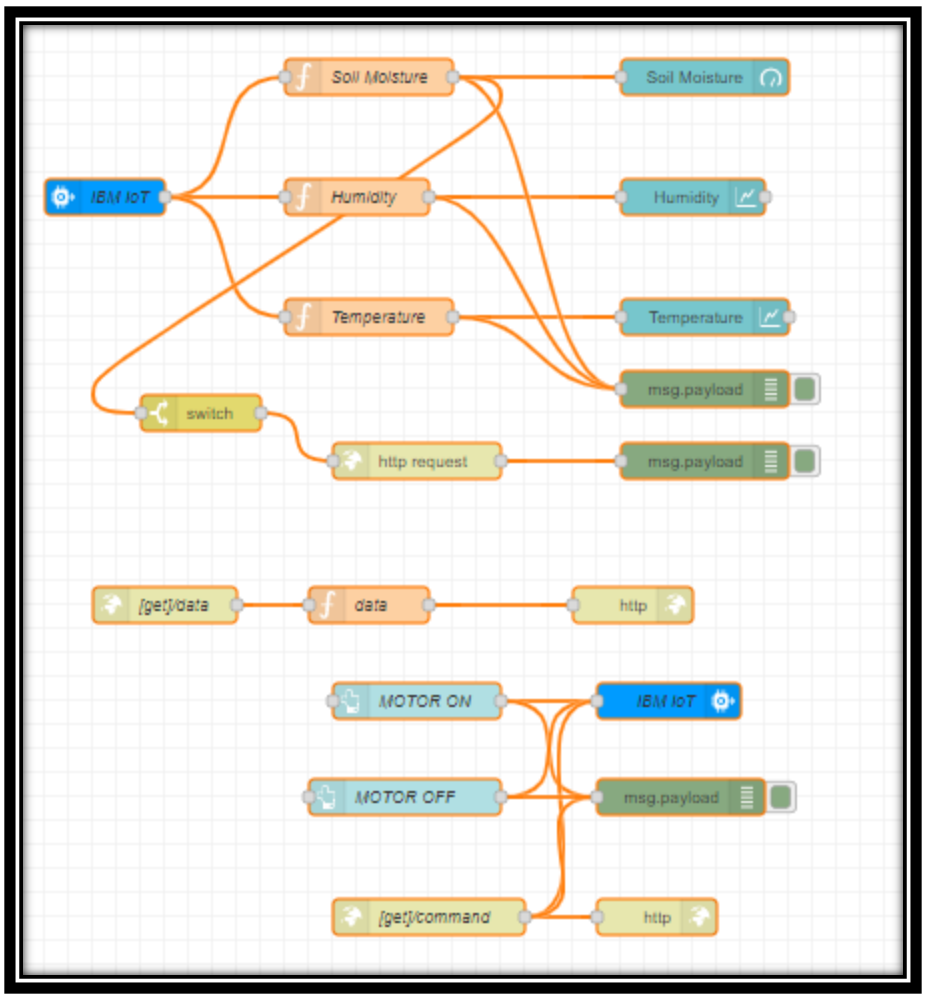


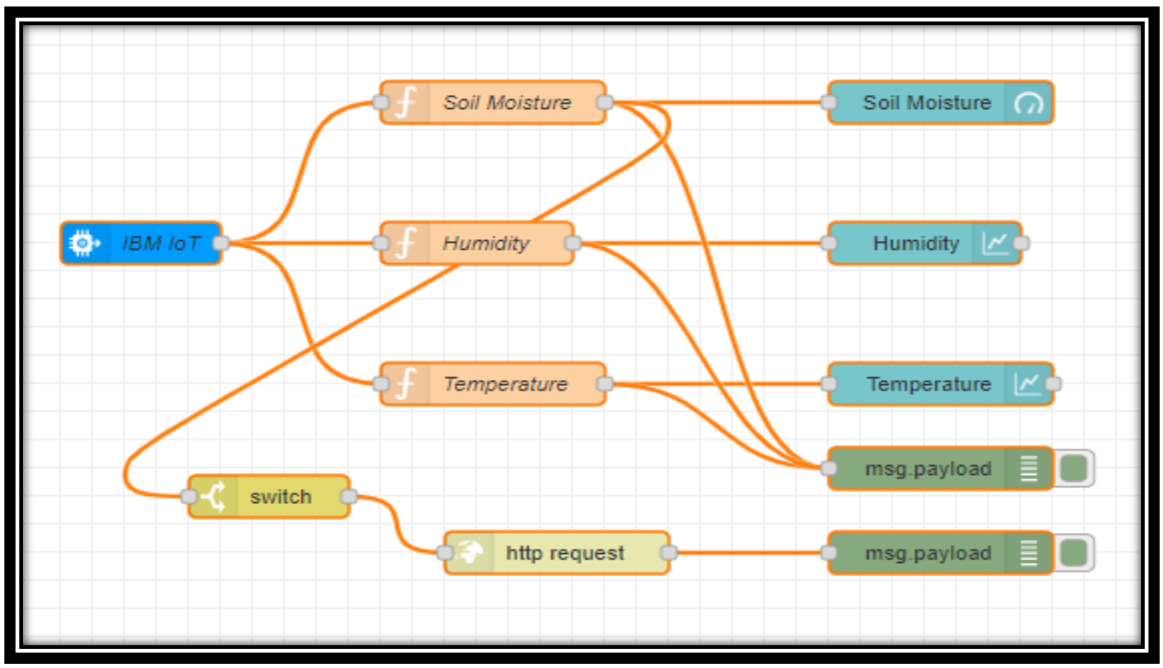
MOTOR ON:

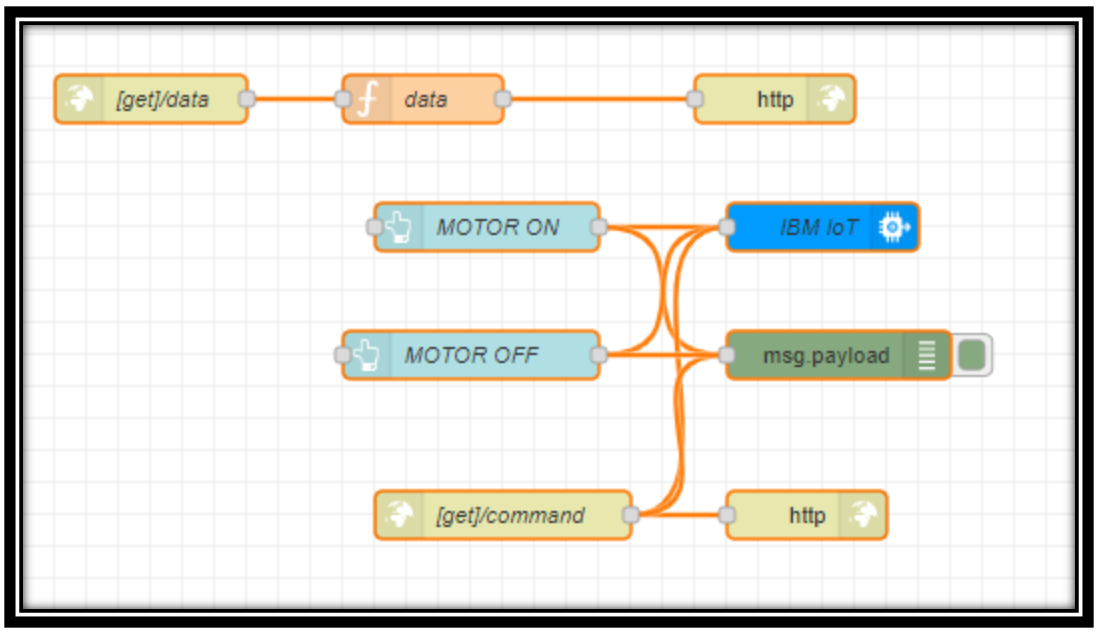


MOTOR OFF:

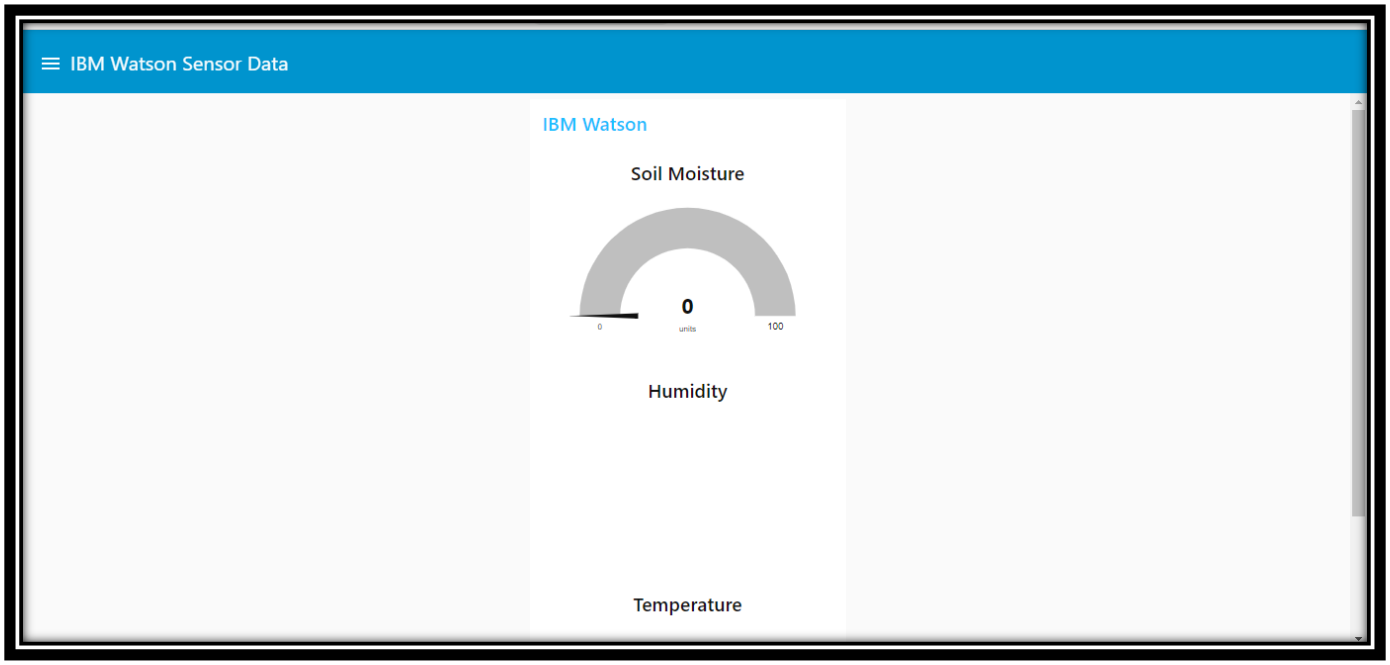


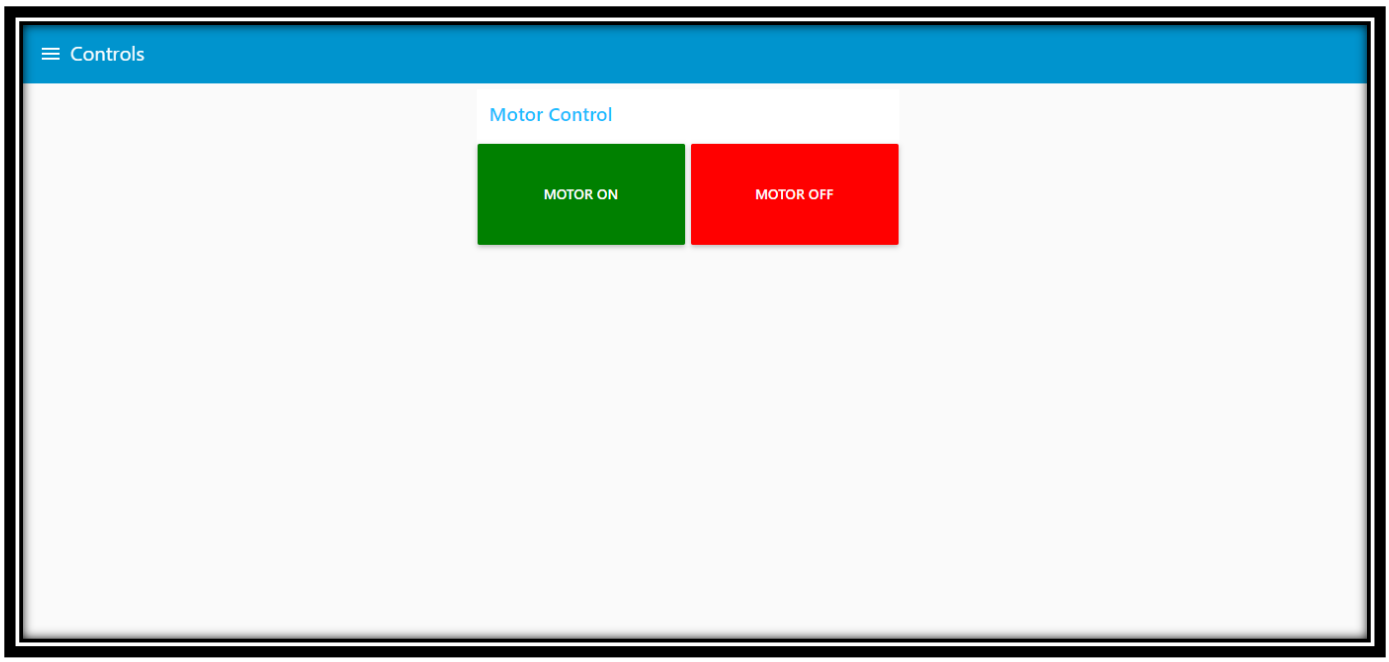

Soil Moisture
Soil Moisture
IBM IoT
Humidity
Humidity
Temperature
Temperature
msg.payload
switch
http request
msg.payload
[get]/data
data
http
MOTOR ON
IBM IoT
MOTOR OFF
msg.payload
[get]/command
http

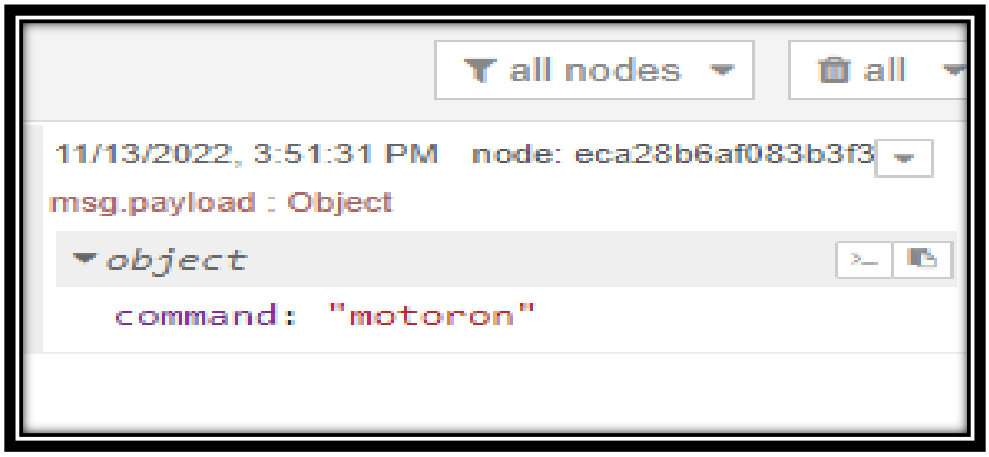

Soil Moisture
Soil Moisture
IBM IoT
Humidity
Humidity
Temperature
Temperature
msg.payload
switch
http request
msg.payload


[get]/data
data
http
MOTOR ON
IBM IoT
MOTOR OFF
msg.payload
[get]/command
http

OUTPUT:


IBM Watson Sensor Data
IBM Watson
Soil Moisture
0
0
units
100
Humidity
Temperature


Controls
Motor Control
MOTOR ON
MOTOR OFF


all nodes
all
11/13/2022, 3:51:31 PM node: eca28b6af083b3f3
msg.payload : Object
object
command: "motoron"