

TEAM ID	PNT2022TMID44795
PROJECT NAME	SPRINT 3

Configuration of Node-Red to send commands to IBM cloud

ibmiot out node I used to send data from Node-Red to IBM Watson device. So,

after adding it to the flow we need to configure it with credentials of our Watson device.

Here we add two buttons in UI

The screenshot shows the 'Edit ibmiot in node' configuration window. It has a title bar 'Edit ibmiot in node' and three buttons: 'Delete', 'Cancel', and 'Done'. Below the buttons is a 'Properties' tab. The settings are as follows:

- Authentication: API Key (dropdown)
- API Key: IBMIOT APIKEY (text input with a search icon)
- Input Type: Device Event (dropdown)
- Device Type: All or abcd (checkbox and text input)
- Device Id: All or 7654321 (checkbox and text input)
- Event: All or + (checkbox and text input)
- Format: All or json (checkbox and text input)
- QoS: 0 (dropdown)
- Name: IBM IoT (text input)

At the bottom, there is an 'Enabled' checkbox.

1 -> for motor on

2 -> for motor off

We used a function node to analyse the data received and assign command to each number.

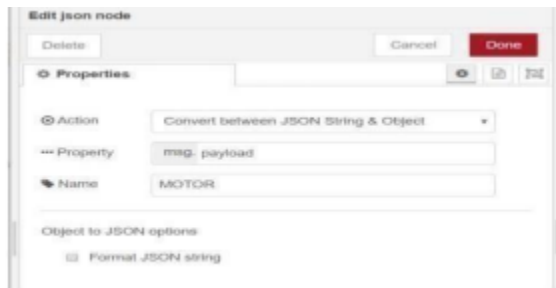
The Java script code for the analysis is:

```
if(msg.payload===1)
```

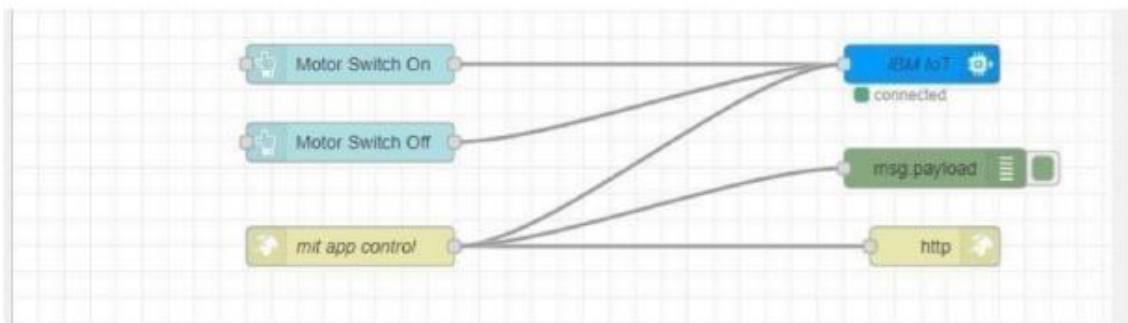
```
msg.payload={"command": "ON"};
```

```
else if(msg.payload===0)
```

```
msg.payload={"command": "OFF"};
```



Edit JSON node needs to be configured like this

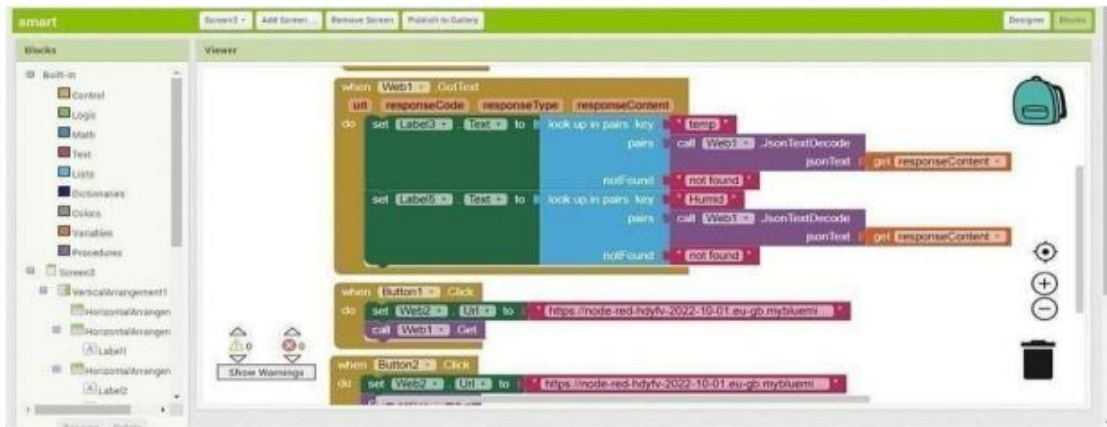


CompleteProgram Flow



MOBILE APP WEB :

BLOCK DIAGRAM



SCREEN – 1



SCREEN – 3

Screen2



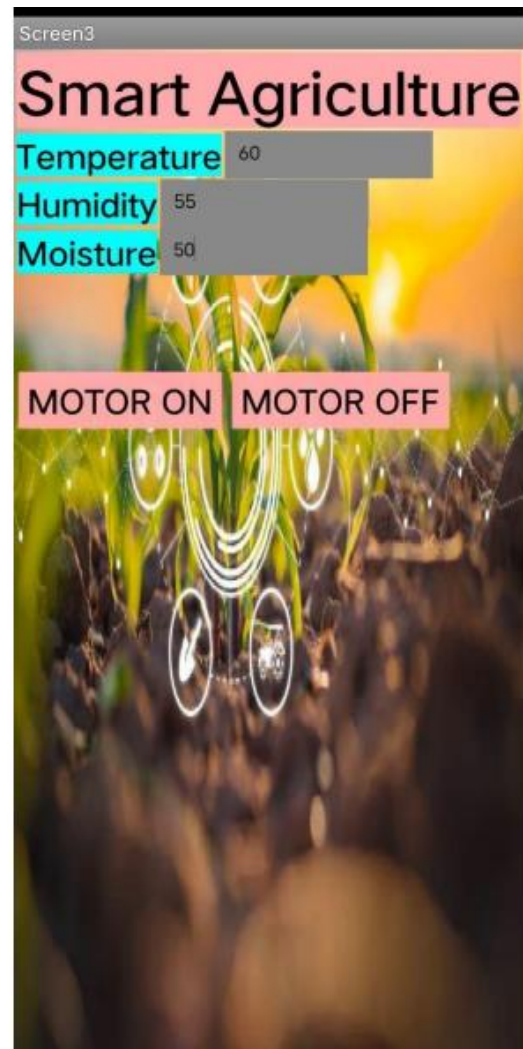
User Name

Password

Screen3

Smart Agriculture

Temperature	60
Humidity	55
Moisture	50



Web APP UI Home Tab

