

IOT ENABLED SMART FARMING APPLICATION

SPRINT DELIVERY – 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

1 -> for motor on

2 -> for motor off

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

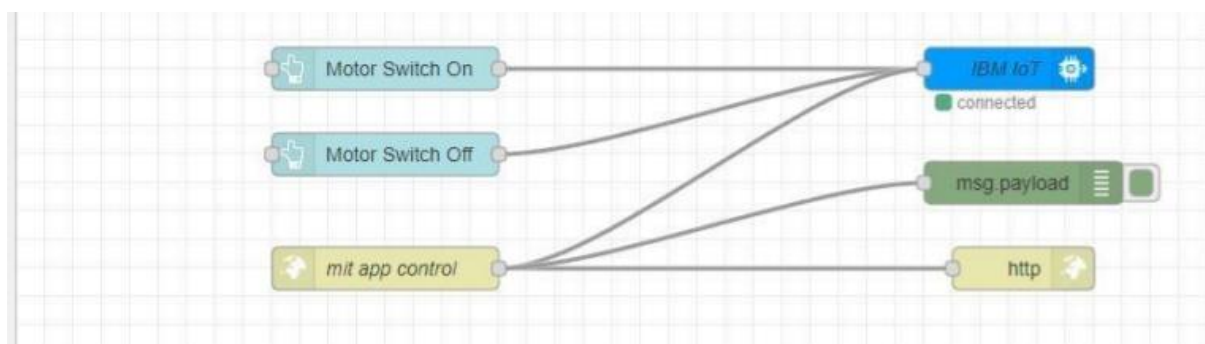
The Java script code for the analyses is:

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

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

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

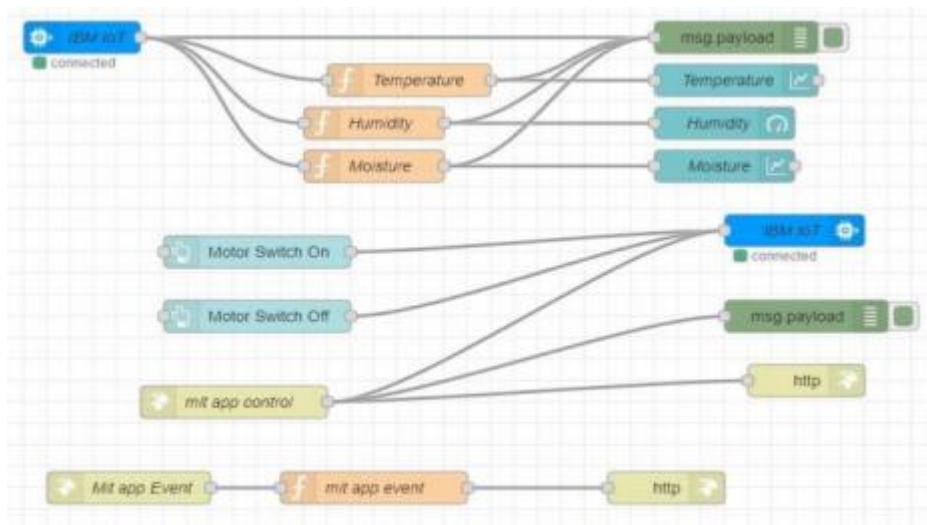
```
msg.payload={"command": "OFF"};
```



Adjusting User Interface

In order to display the parsed JSON data a Node-Red dashboard is created. Here we are using Gauges, text and button nodes to display in the UI and helps to monitor the parameters and control the farm equipment.

Complete Program Flow



MOBILE APP WEB :

