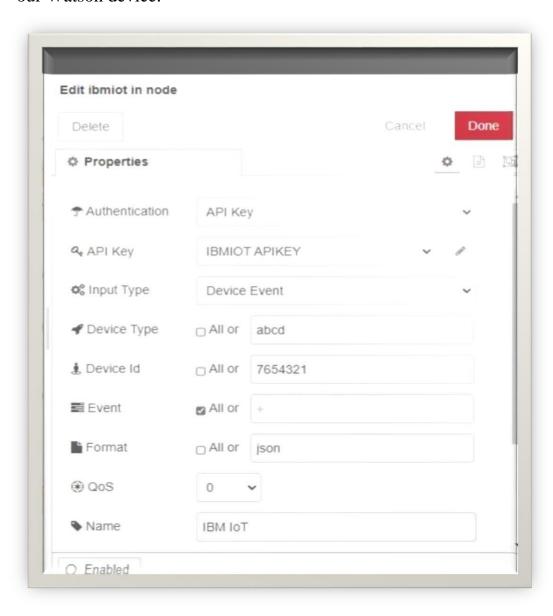
# IOT ENABLED SMART FARMING APPLICATION

# **SPRINT DELIVERY – 3**

**TEAM ID:PNT2022TMID12813** 

### 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 the credentials of our Watson device.



Here we add two buttons in UI

1 -> for motor on

#### $2 \rightarrow \text{for motor off}$

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

The Javascript code for the analyses is:

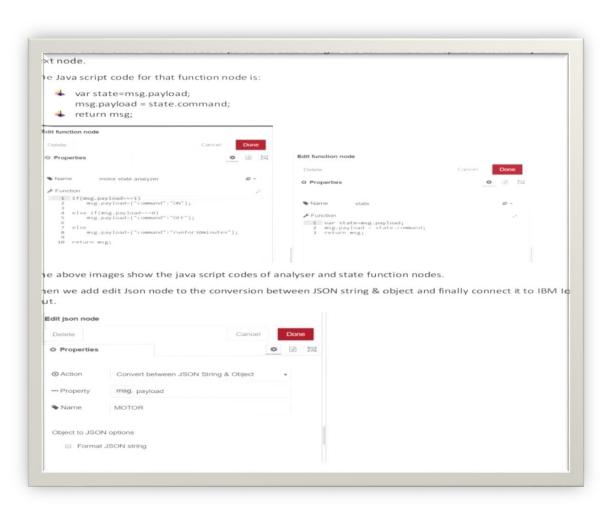
if(msg.payload===1)

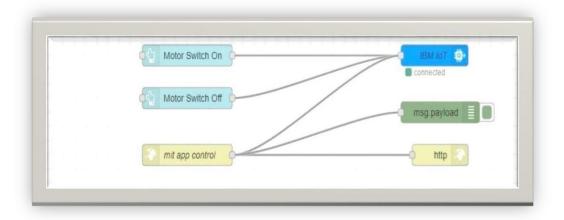
msg.payload={"command":

"ON"};else

if(msg.payload===0

)msg.payload={"command":



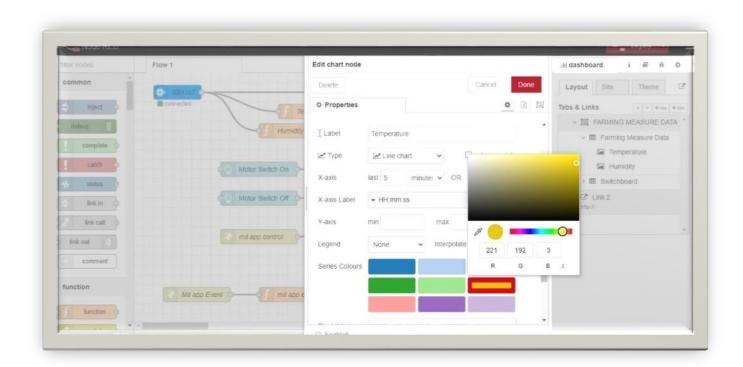


This is the program flow for sending commands to IBM the cloud.

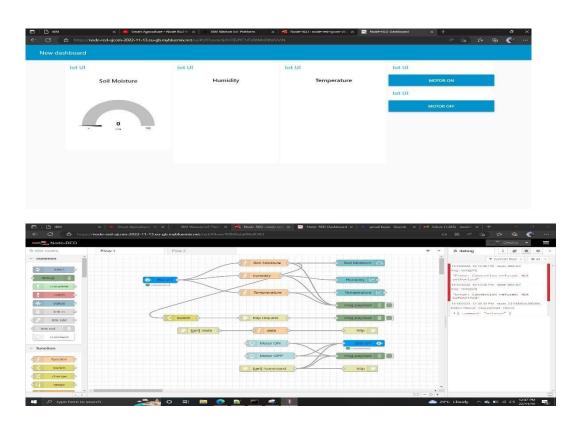
### **Adjusting User Interface**

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 help to monitor the parameters and control the farm equipment.

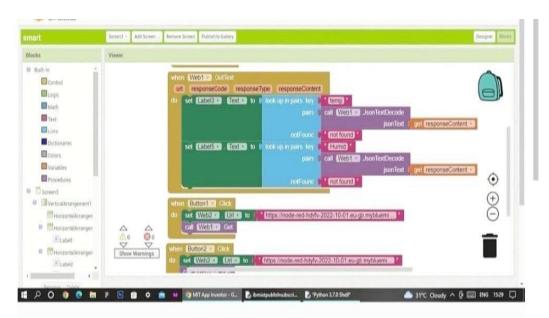
Below images are the Gauge, text and button node configurations.



#### **COMPLETE PROGRAM FLOW**



## MOBILE APP WEB:



## **APPLICATION PAGE:**



