# **SPRINT DELIVERY – 3**

TITLE	Smart Farmer-IOT Enabled Smart Farming
	Application
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID22879
LEADER NAME	SINDHU V B
TEAM MEMBER NAME	SNEHAA R
	SARDHAR HUSSEIN B
	SARATHYPRIYAN R
	SAMRAHUL M

## Configuration of Node-Red to send commands to IBM cloud

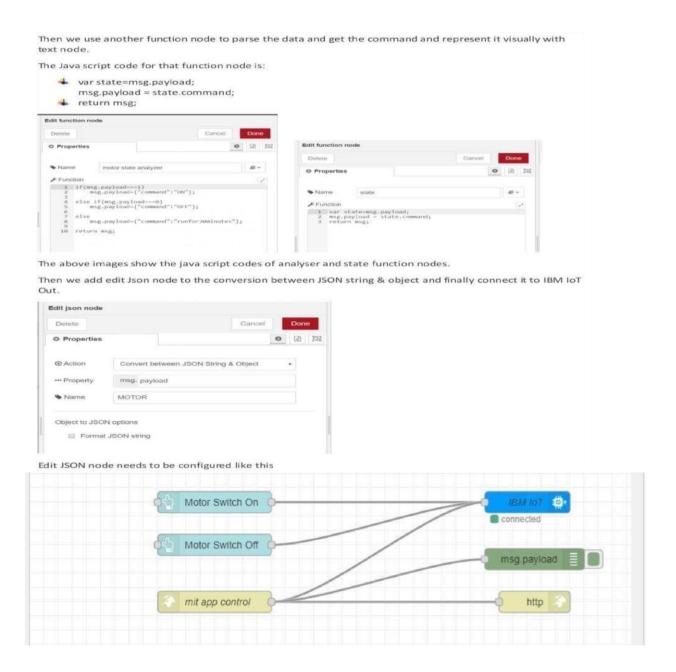
ibmiot out node I used to send data from Node-Red to IBM Watson device. So, after adding it to the flow we need to configure it with credentials of our Watsondevice.

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"};
```



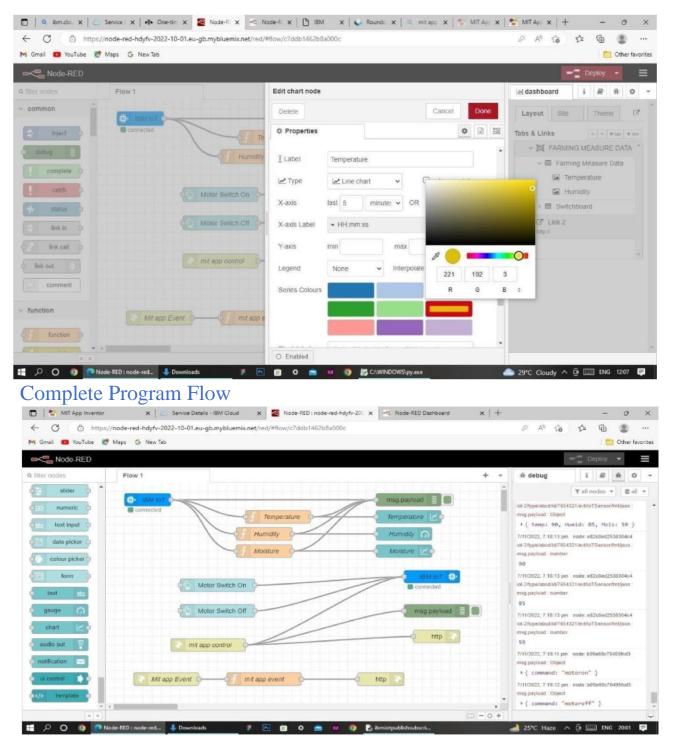
This is the program flow for sending commands to IBM cloud.

### Adjusting User Interface

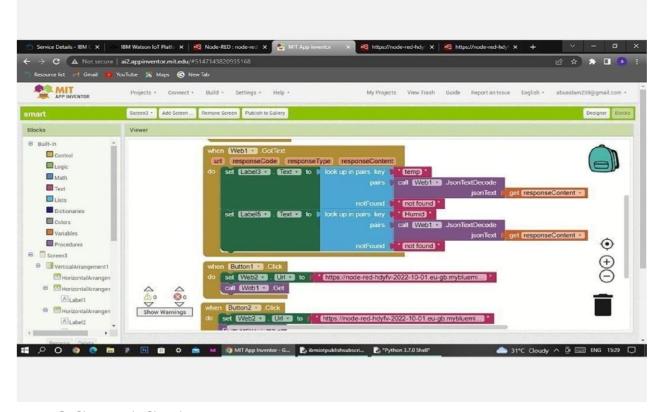
In order to display the parsed JSON data a Node-Red dashboard is created

Here we are using Gauges, text and button nodes to display in the UI and helps to monitor the parameters and control the farm equipment.

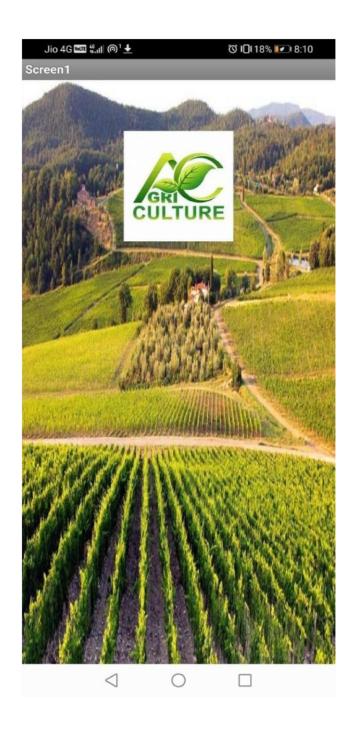
Below images are the Gauge, text and button node configurations.



#### **MOBILEAPPWEB:**



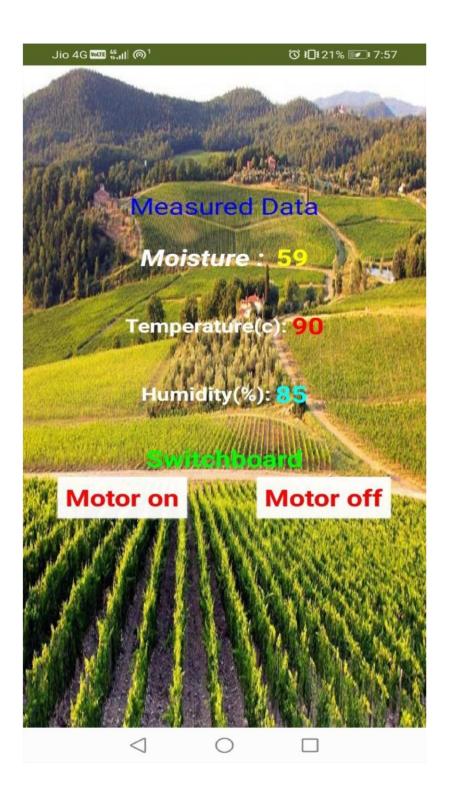
**BLOCKDIAGRAM** 





SCREEN – 1

**SCREEN - 2** 



# **SCREEN - 3** Web APP UI Home Tab

