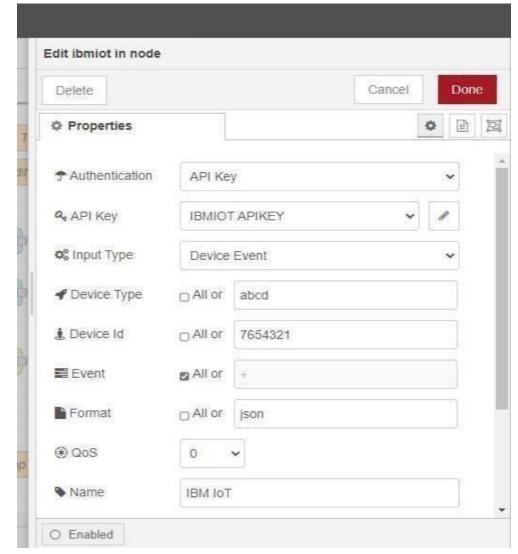
SPRINT DELIVERY – 3

Team ID	PNT2022TMID51406
Project Name	Smartfarming -IoT Enabled Smart
	Farming Application
Date	12 November 2022

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	



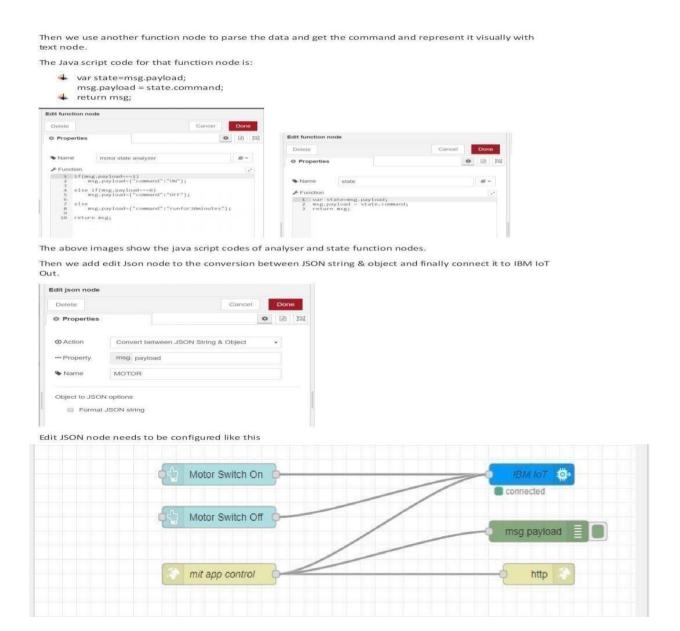
1 -> for motor on

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

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

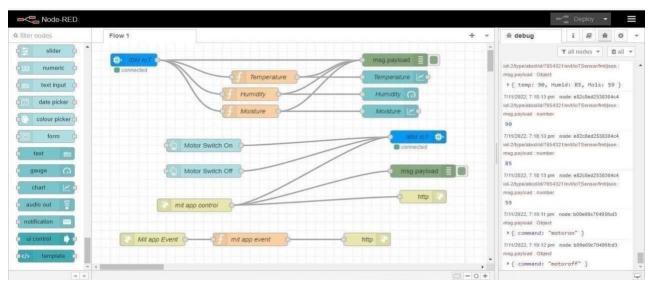
In order to display the parsed JSON data a Node-Red dashboard is created

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

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

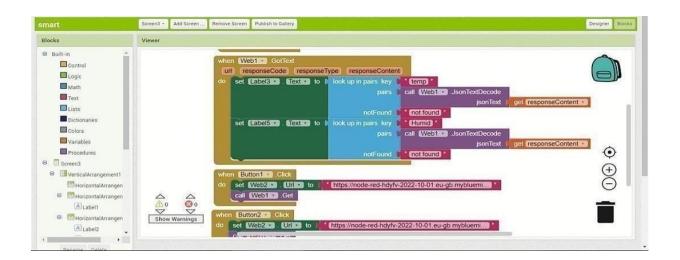


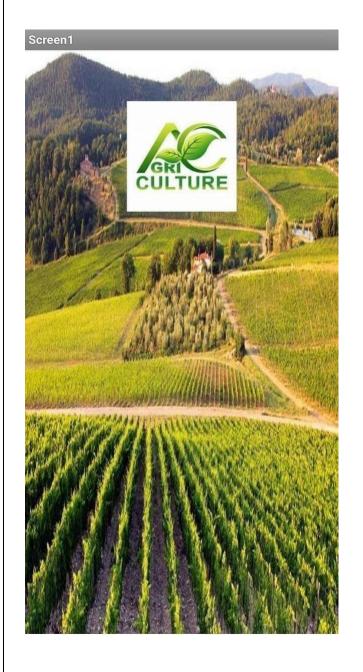
Complete Program Flow



MOBILE APP WEB: **BLOCK**

DIAGRAM

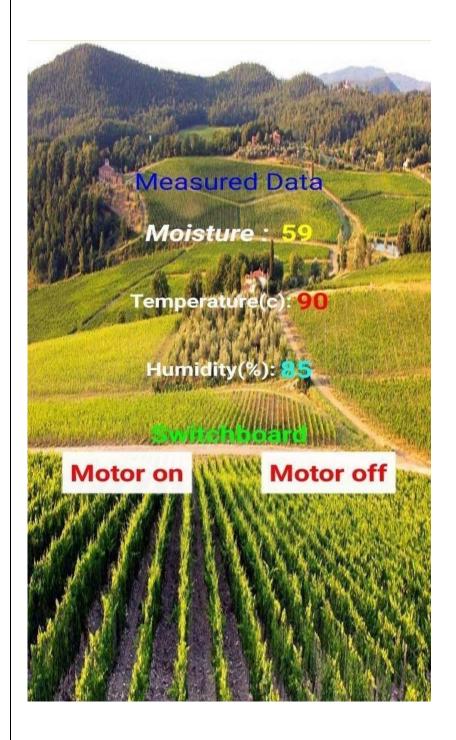






SCREEN – 1

SCREEN - 2



SCREEN - 3
Web APP UI Home Tab



