

Sprint 3

MIT App Inventor and Dashboard-
Application for project using MIT App, Design
the Model and Test the App

Date	19 November 2022
Team ID	PNT2022TMID43644
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application
Maximum Marks	4 Marks

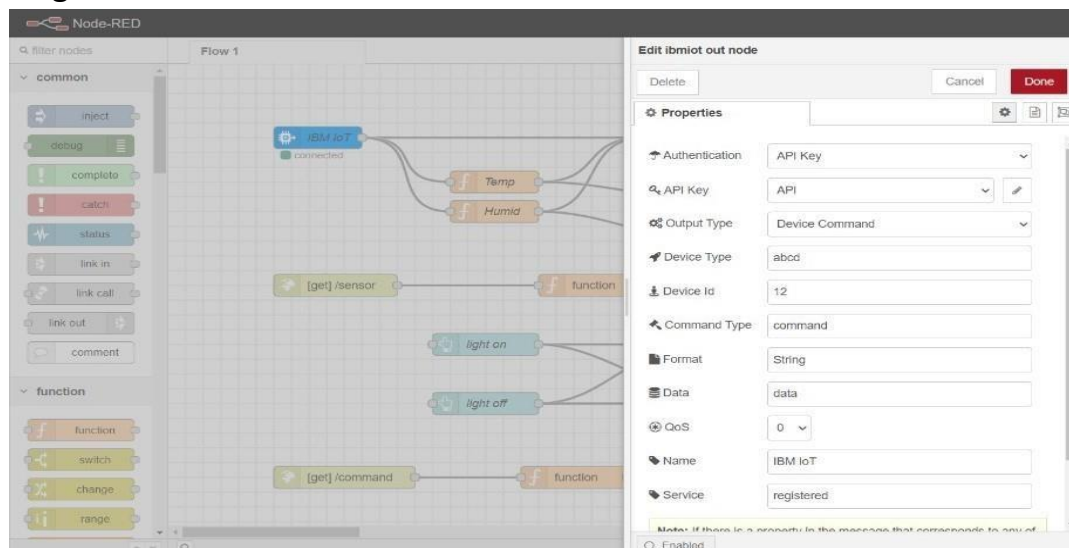
Configuration of Node-Red to send commands to IBM cloud

Ibm iot 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.Light On

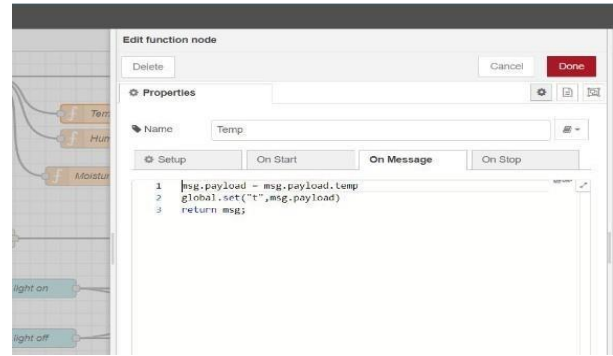
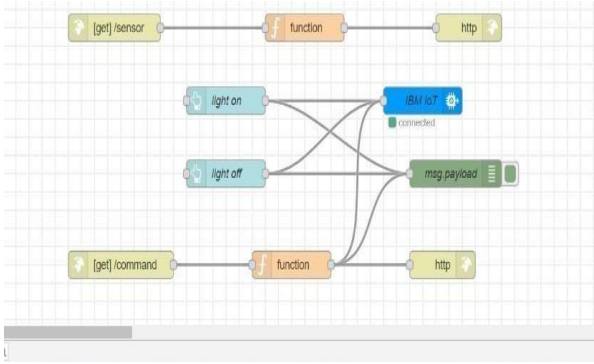
2.Light Off



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"};
```

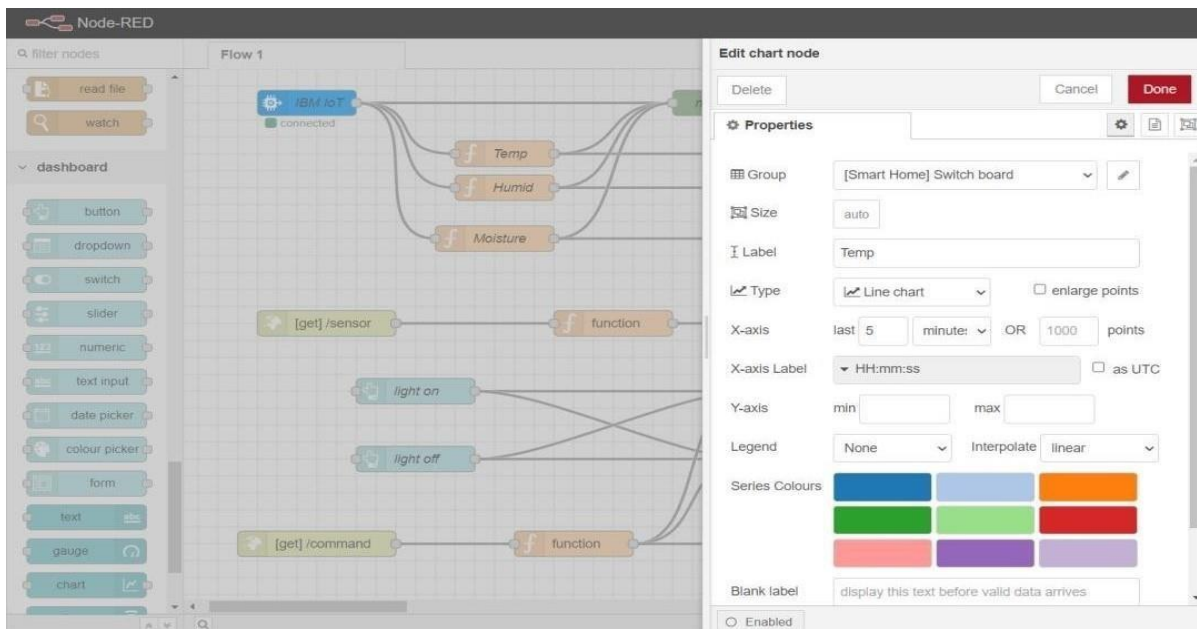


Adjusting User Interface

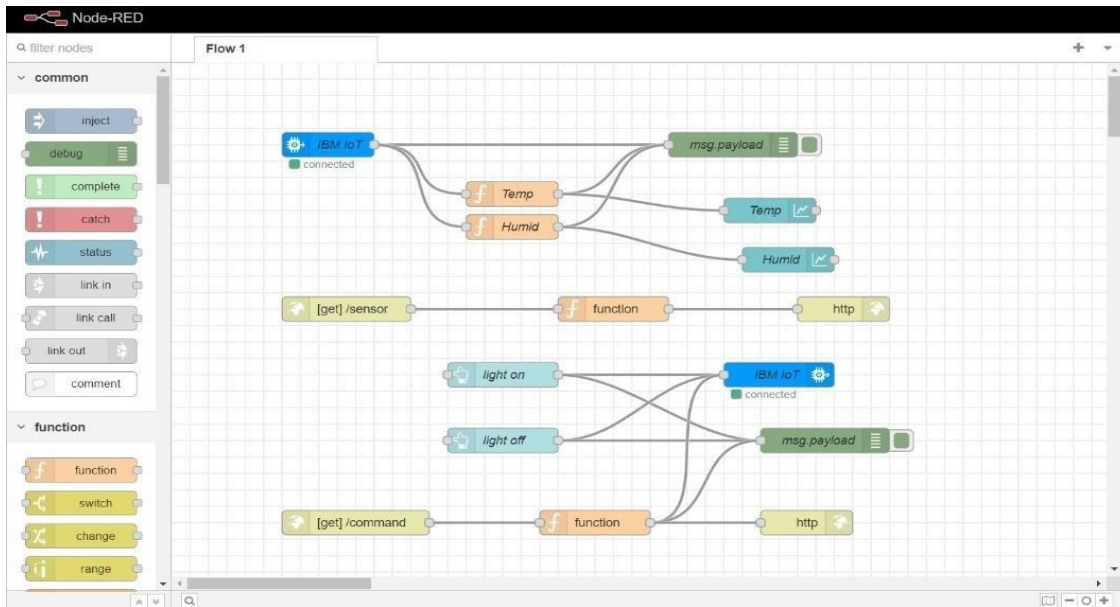
In order to display the parsed JSON data a Node-Red dashboard is created

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.

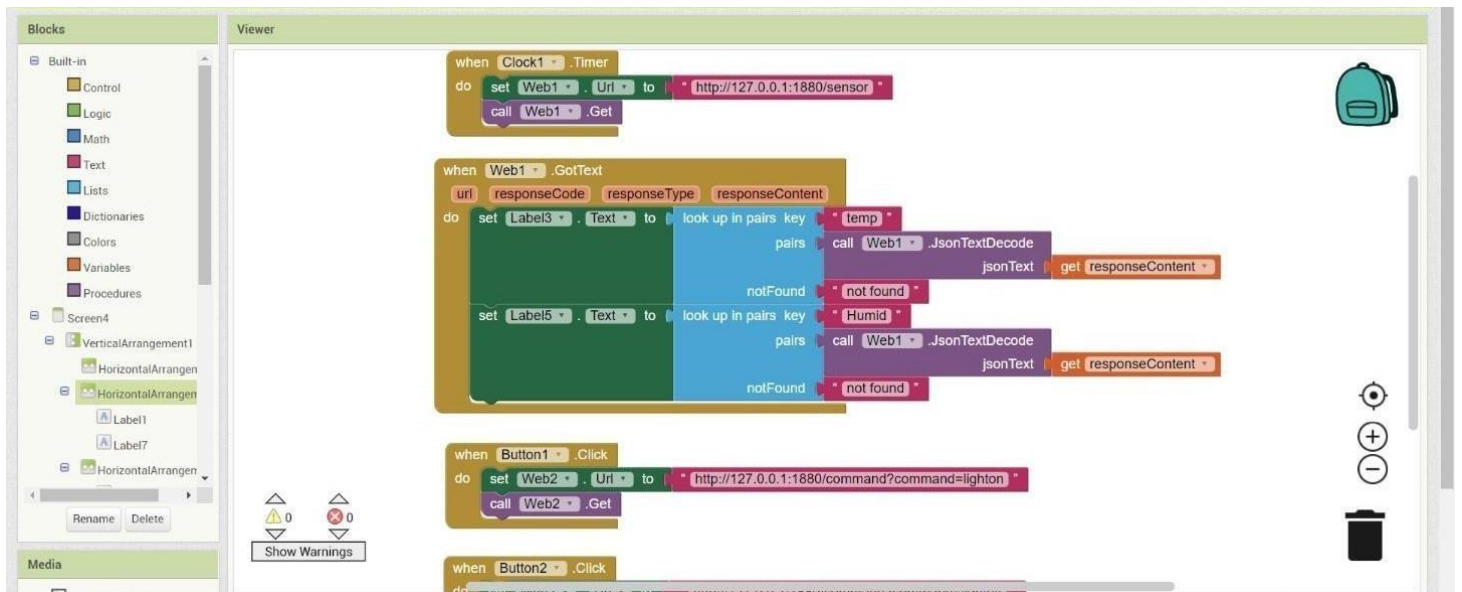
Below images are the Gauge, text and button node configurations.



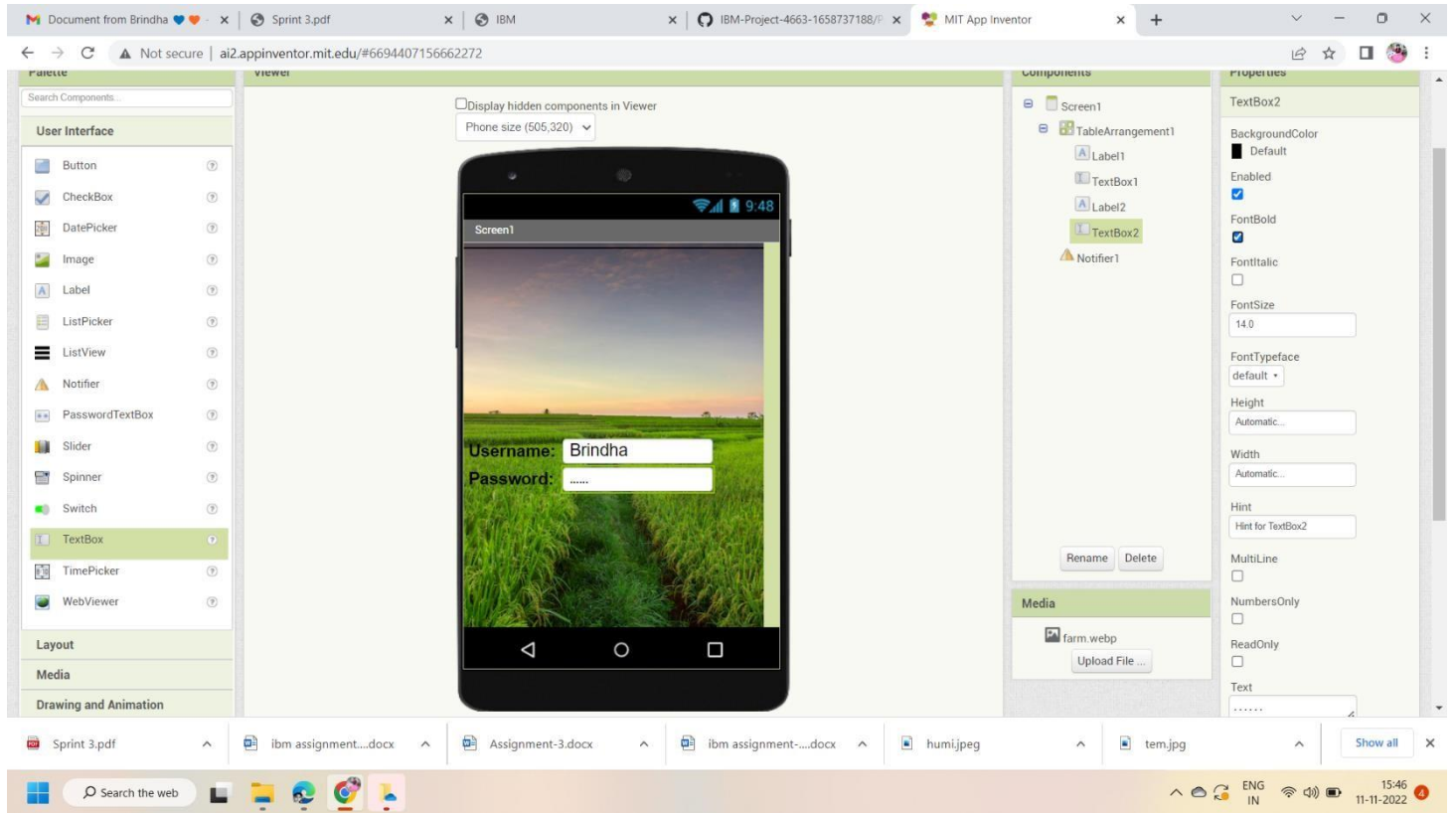
Complete Program Flow



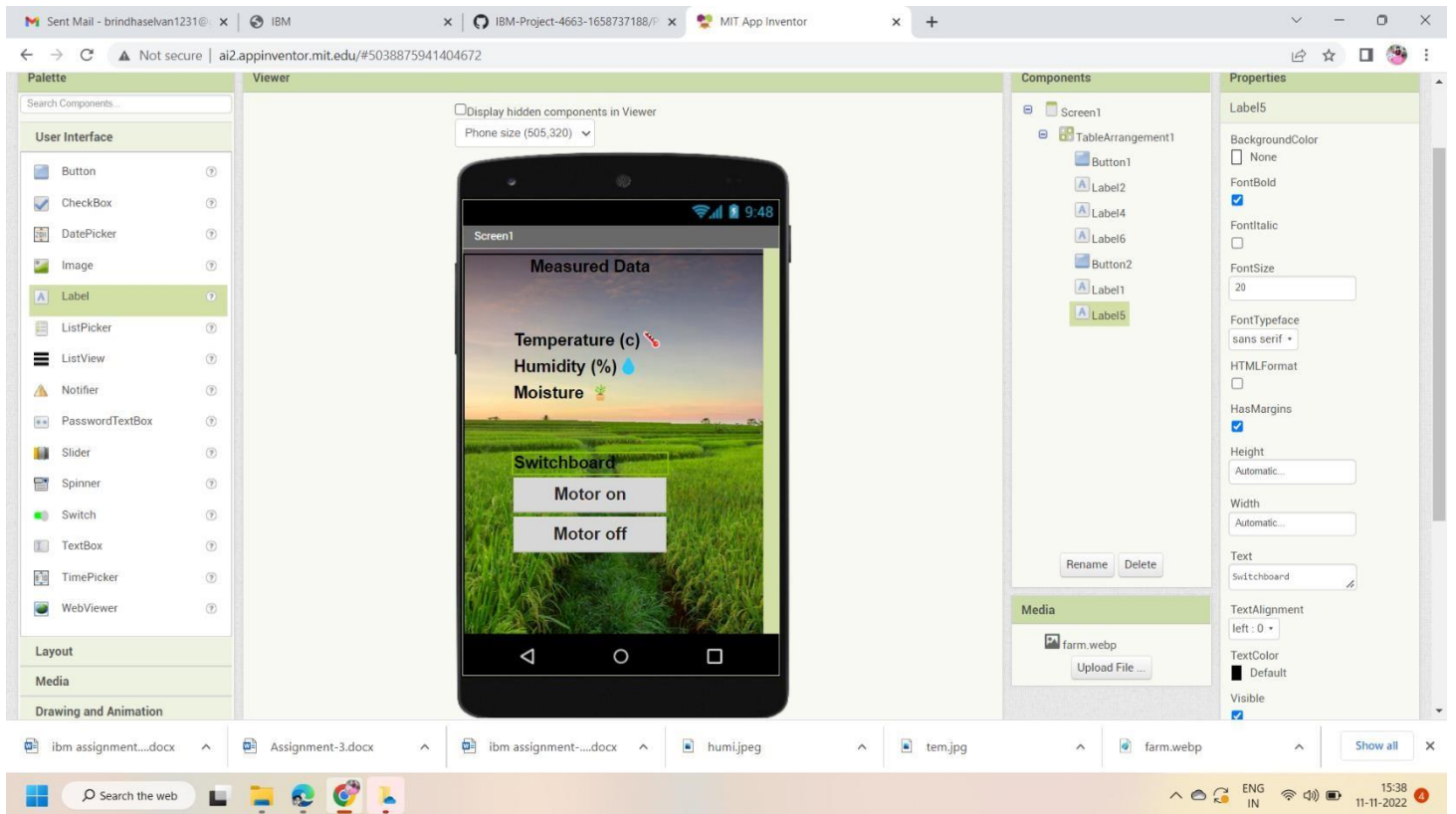
MOBILE APP WEB : BLOCK DIAGRAM



SCREEN – 1



SCREEN - 2



Web APP UI Home Tab

