PROJECT DEVELOPMENT PHASE
DELIVERY OF SPRINT-3

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PROJECT NAME	SmartFarmer - IoT Enabled Smart Farming Application

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

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"};

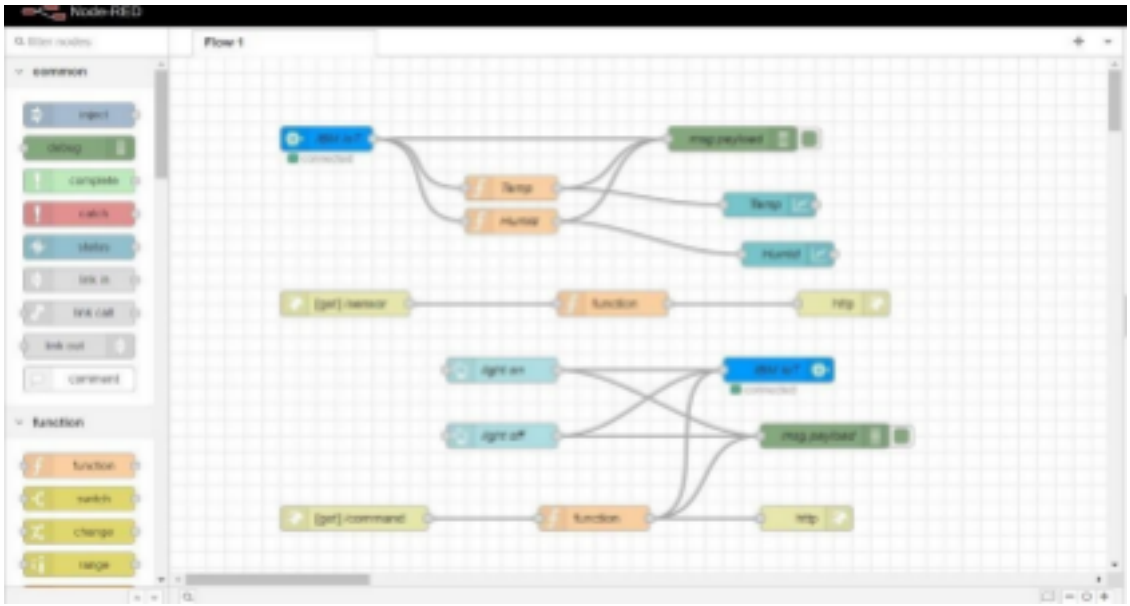
Adjusting UserInterface

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.

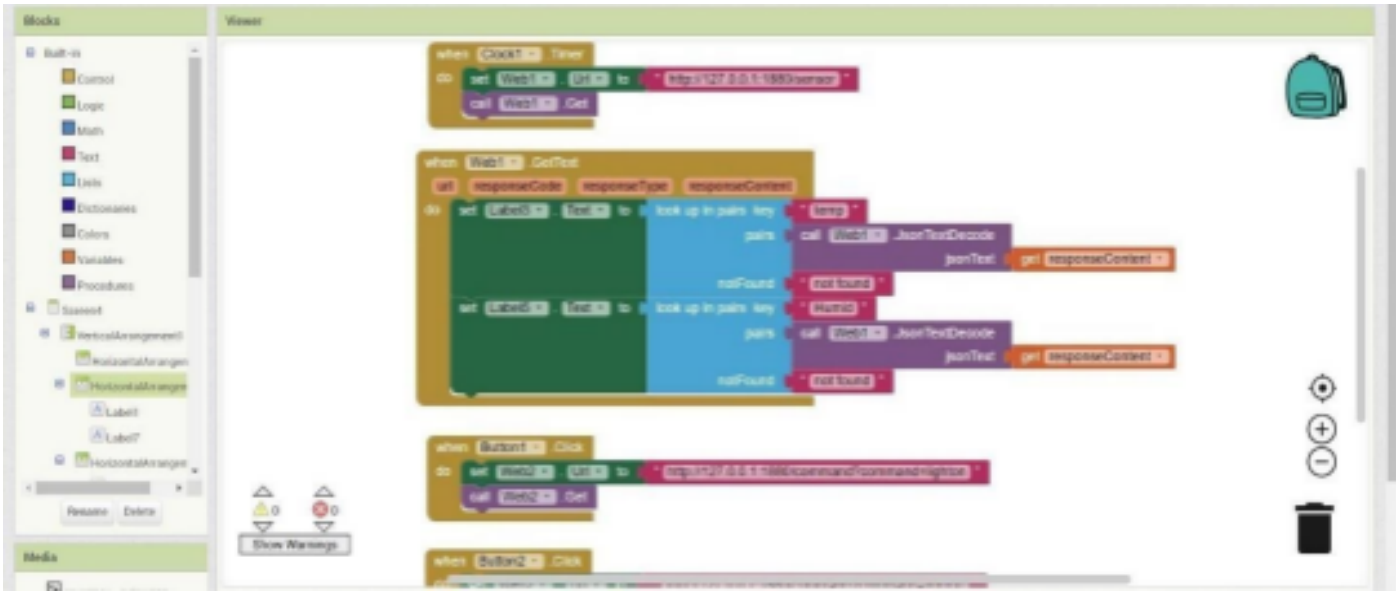
Below images are the Gauge, text and button node configurations.

Complete Program Flow

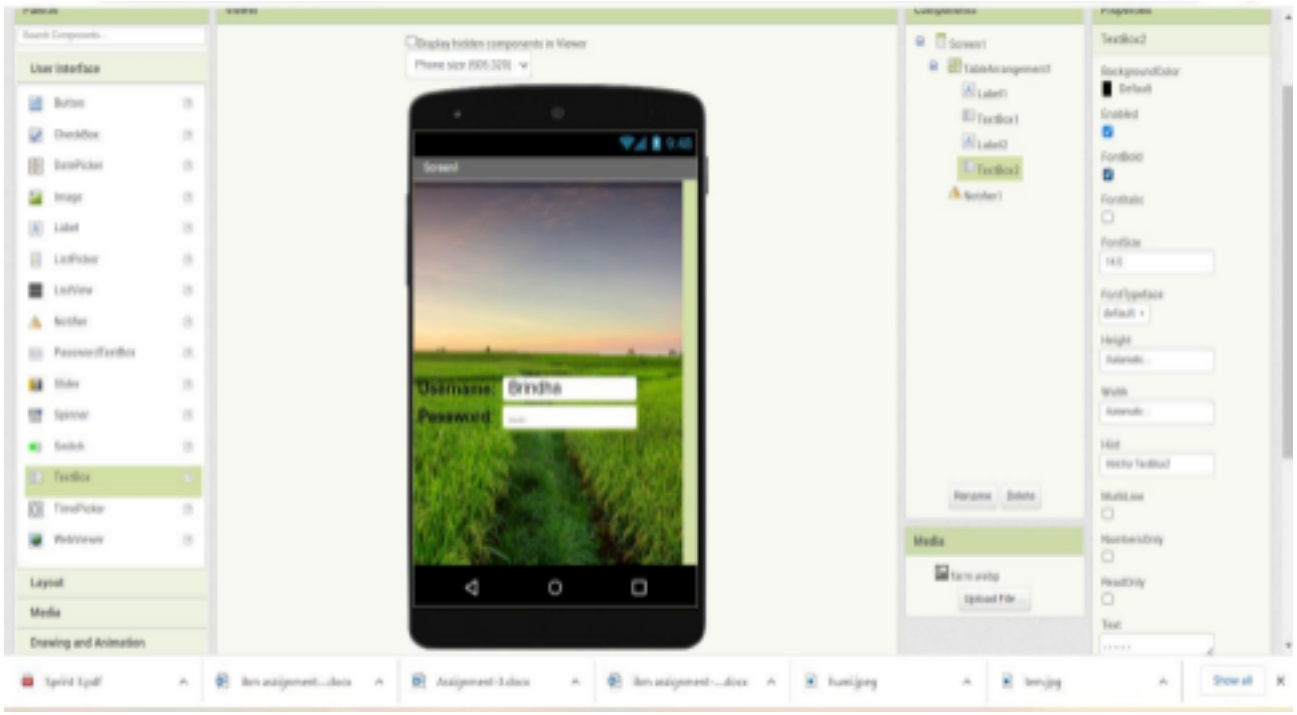


MOBILE APP WEB :

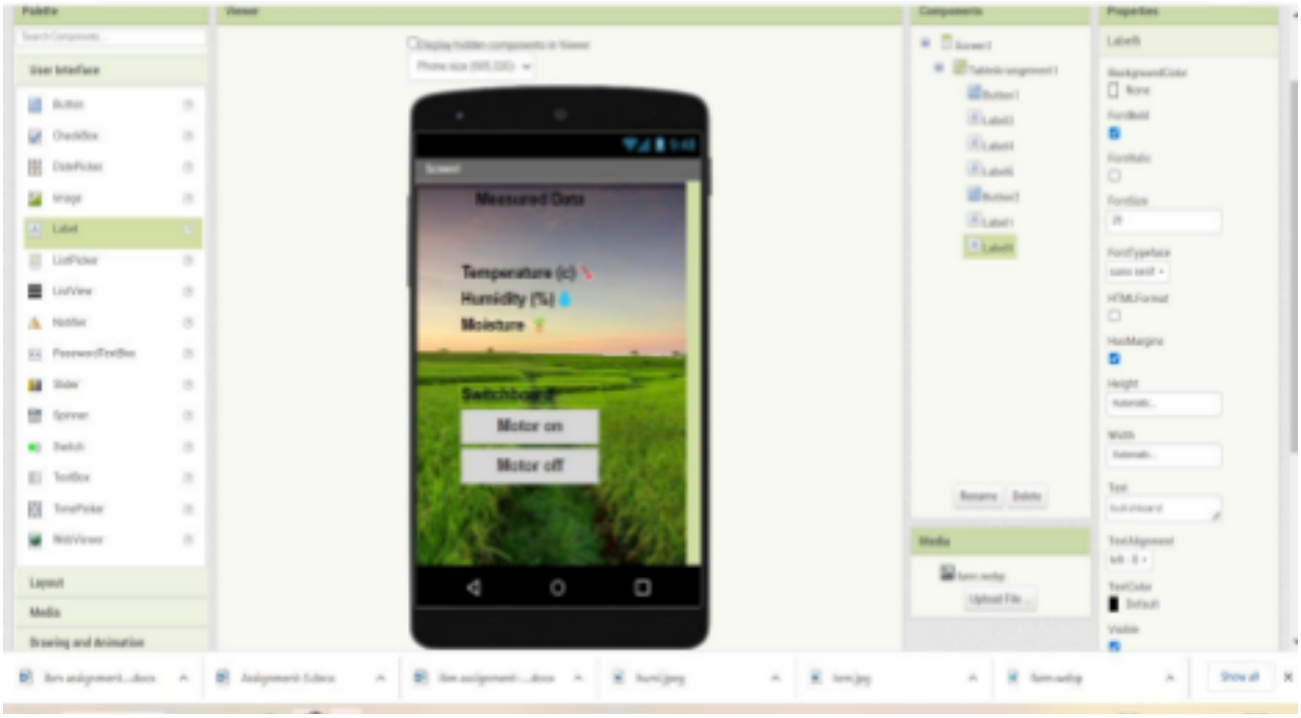
BLOCK DIAGRAM:



SCREEN 1:



SCREEN 2:



Web APP UI Home Tab