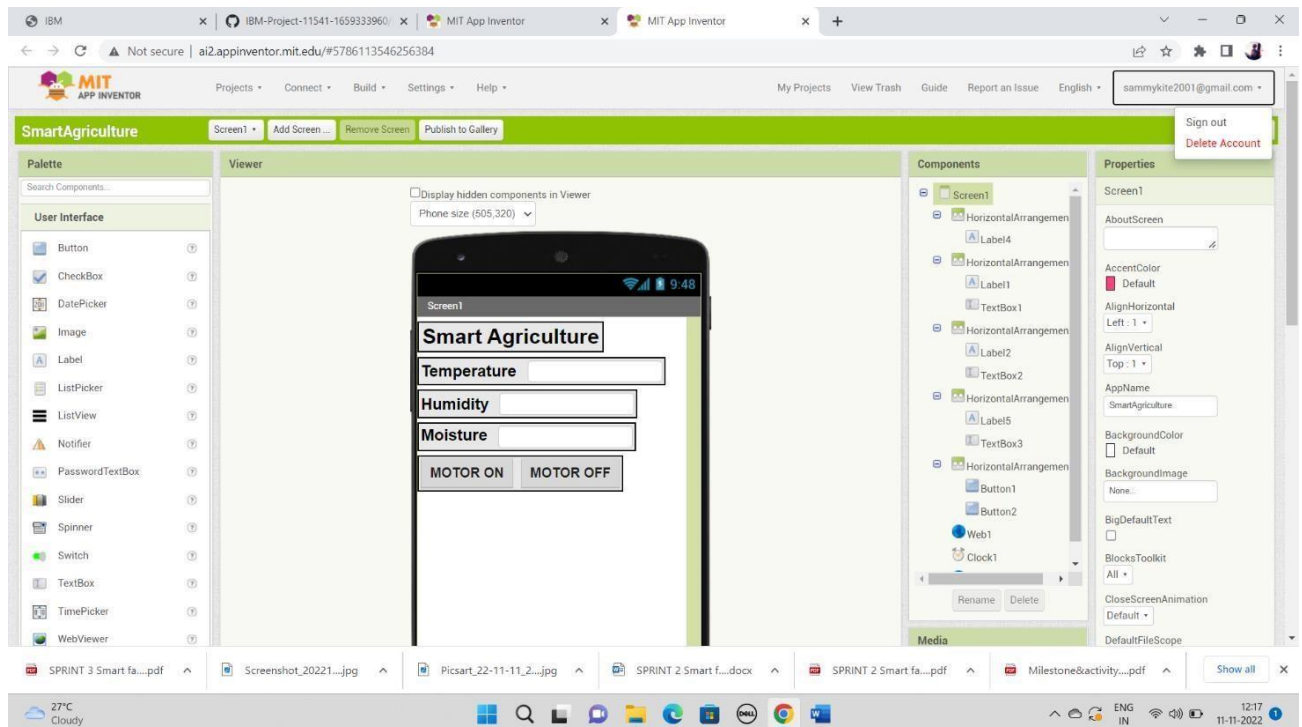


# Project Development Phase Delivery of Sprint -1

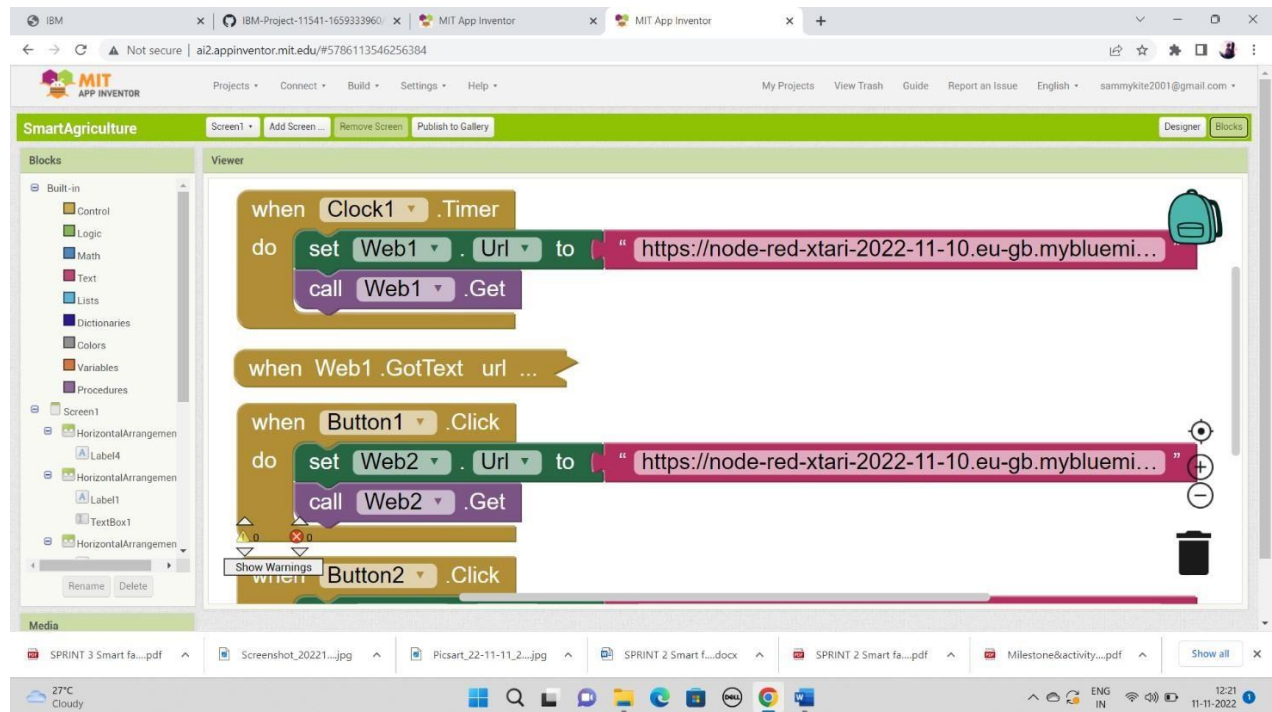
**TEAM ID: PNT2022TMID14846**

**PROJECT NAME: Smart Farmer-IOT Enabled Smart Farming Application**

## Creating a MIT Account



## Creating Blocks to Build the Mobile Application



# Configuring the Blocks with the Node Red Link

The screenshot displays the MIT App Inventor web interface. The browser tabs at the top include 'IBM', 'IBM-Project-11541-1659333960', and two instances of 'MIT App Inventor'. The address bar shows the URL 'ai2.appinventor.mit.edu/#5786113546256384'. The project name 'SmartAgriculture' is visible in the top bar, along with buttons for 'Screen1', 'Add Screen...', 'Remove Screen', and 'Publish to Gallery'. The 'Designer' and 'Blocks' tabs are active.

The 'Blocks' panel on the left lists various built-in categories: Control, Logic, Math, Text, Lists, Dictionaries, Colors, Variables, and Procedures. Under the 'Screen1' category, components like 'HorizontalArrangemen', 'Label4', 'Label1', and 'TextBox1' are listed.

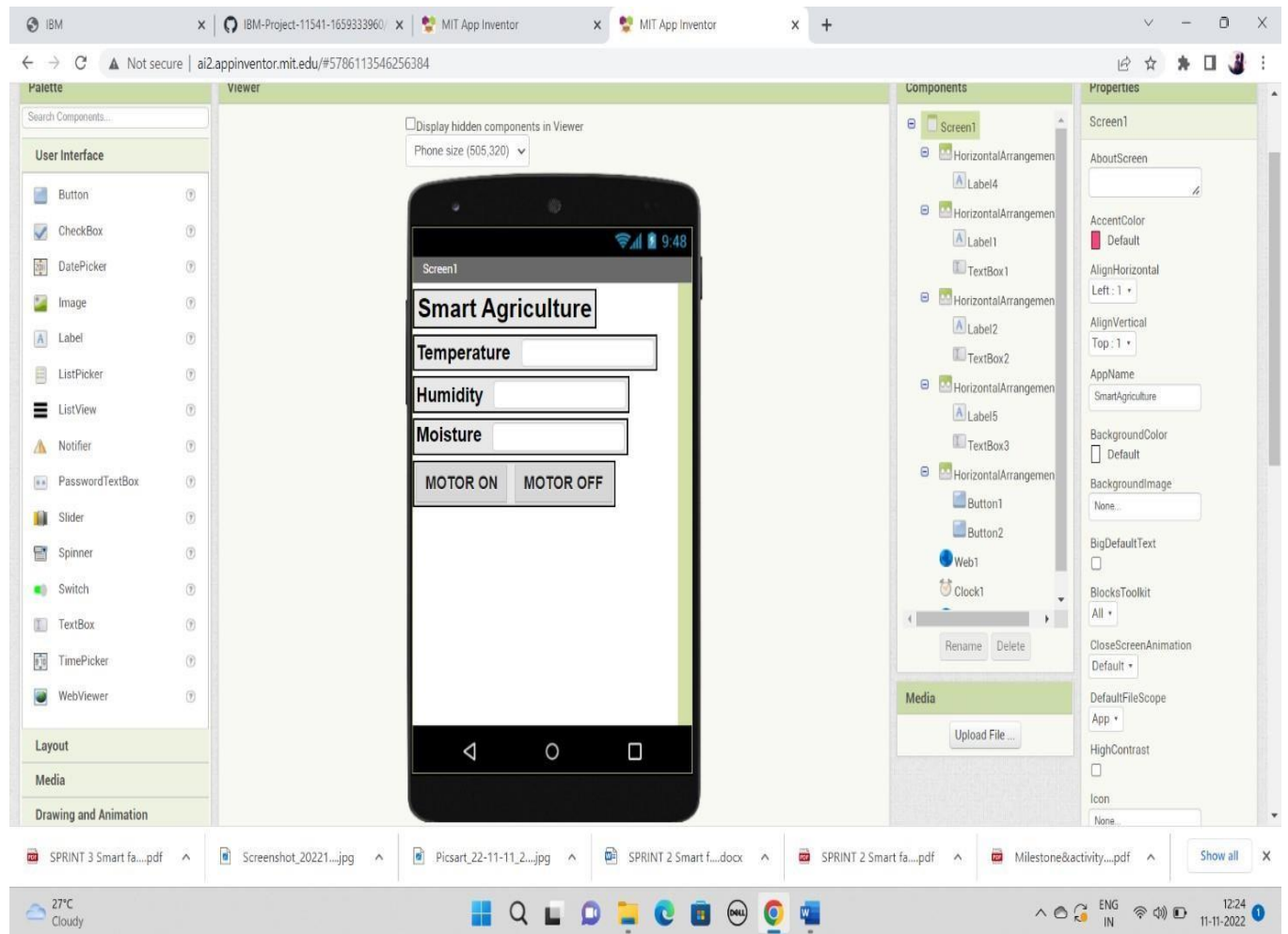
The 'Viewer' area on the right shows three event-driven code blocks:

- when Clock1.Timer**: A 'do' block containing 'set Web1.Url to' followed by the URL 'https://node-red-xtari-2022-11-10.eu-gb.mybluemix.net' and a 'call Web1.Get' block.
- when Web1.GotText url ...**: An empty block.
- when Button1.Click**: A 'do' block containing 'set Web2.Url to' followed by the URL 'https://node-red-xtari-2022-11-10.eu-gb.mybluemi...' and a 'call Web2.Get' block.

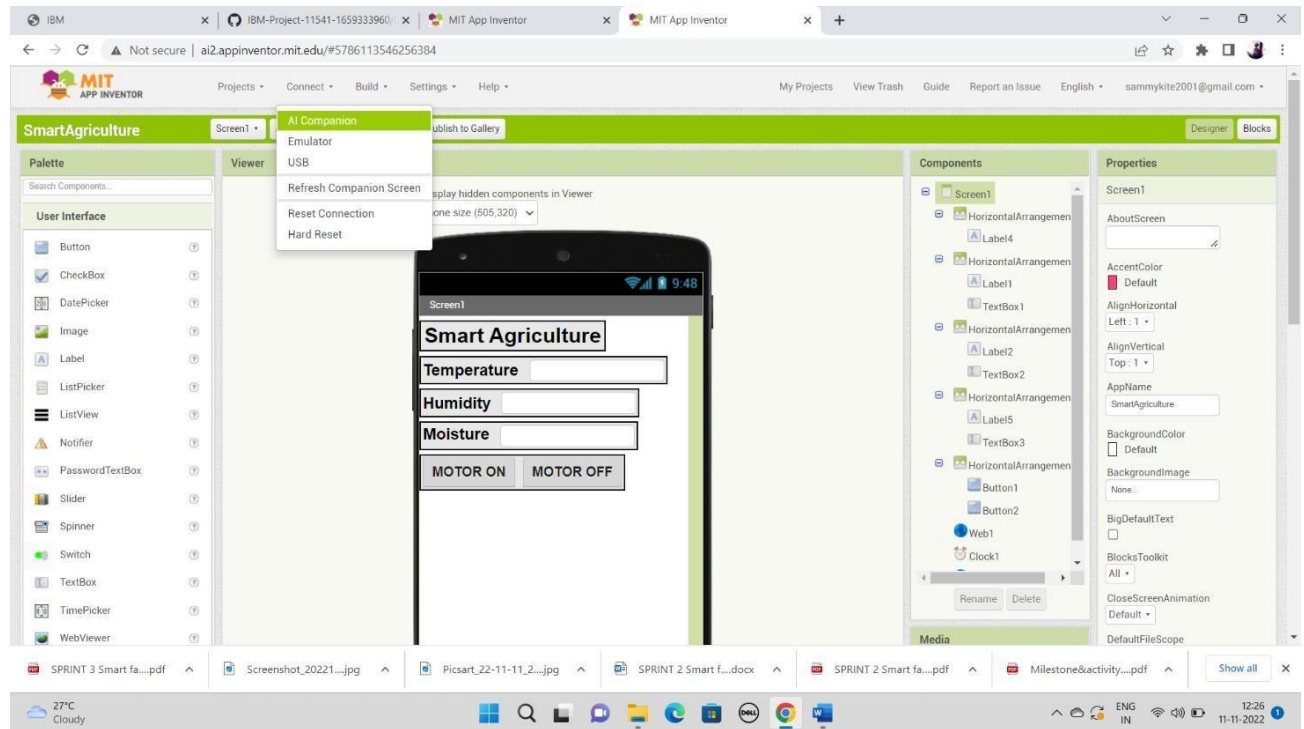
Below these, there is a 'Show Warnings' icon and another 'when Button2.Click' block with a 'do' block containing 'set Web2.Url to' followed by the same URL and a 'call Web2.Get' block.

The bottom of the screen shows a Windows taskbar with the date '11-11-2022' and time '12:23'. The system tray includes icons for network, volume, and battery, along with the text '27°C Cloudy'.

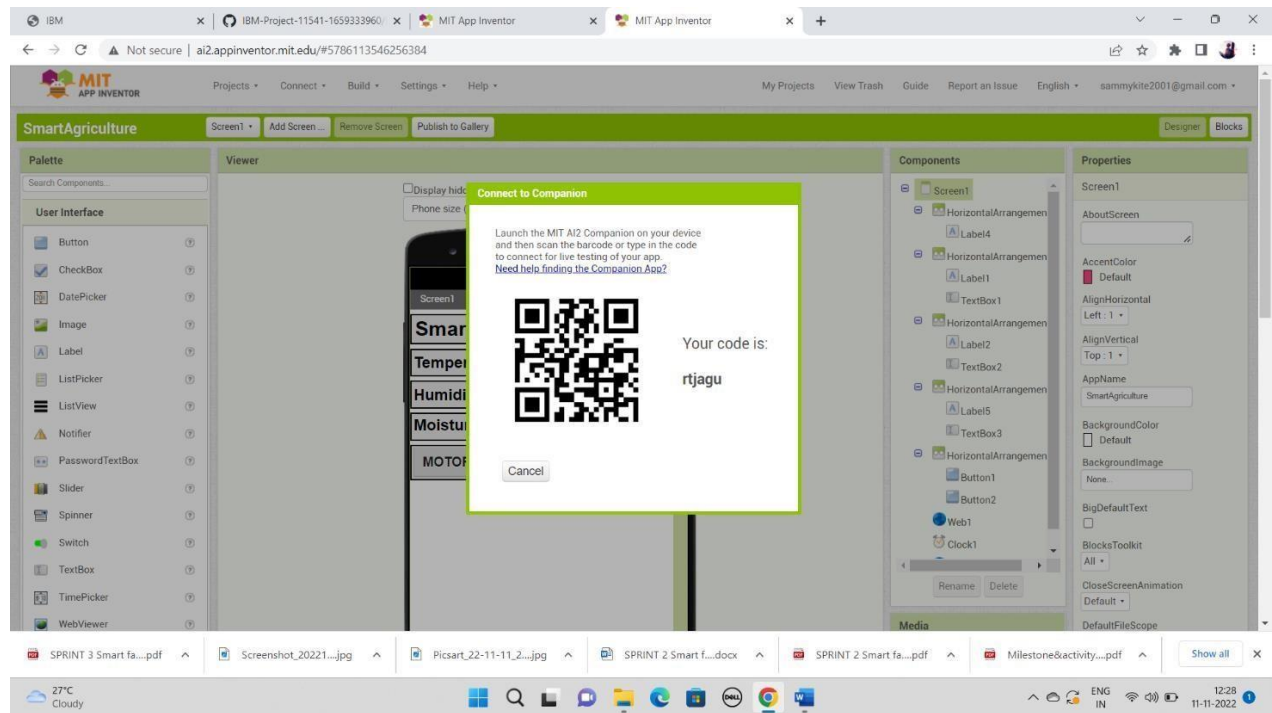
# Creating the Mobile Interface



# Connecting it to the AI Companion



# QR Code to Connect with the Mobile



## Mobile Connected Interface

4G 4G 10:43 (1)

Vol 1 LTE2 26

Screen1

# Smart Agriculture

Temperature

Temperature value

Humidity

Humidity value

Moisture

Moisture value

MOTOR ON

MOTOR OFF

## Receiving Data

Screen1

### Smart Agriculture

Temperature69

Humidity54

Moisture45

MOTOR ONMOTOR OFF



## Motor ON and Motor OFF Command and Output

Screen1

### Smart Agriculture

Temperature

Humidity

Moisture

```
11/11/2022, 1:51:11 AM node: 0e1f6bb2ab4b3941
msg.payload: Object
  { command: "motoroff" }

11/11/2022, 1:51:11 AM node: IBM IoT
msg : string[51]
"[ApplicationClient:publish] Client
is not connected"

11/11/2022, 1:51:11 AM node: 0e1f6bb2ab4b3941
msg.payload: Object
  { command: "motoron" }

11/11/2022, 1:51:11 AM node: IBM IoT
msg : string[51]
"[ApplicationClient:publish] Client
is not connected"

11/11/2022, 1:51:11 AM node: 0e1f6bb2ab4b3941
msg.payload: Object
  { command: "motoroff" }

11/11/2022, 1:51:11 AM node: IBM IoT
msg : string[51]
"[ApplicationClient:publish] Client
is not connected"

11/11/2022, 1:51:11 AM node: 0e1f6bb2ab4b3941
msg.payload: Object
  { command: "motoron" }
```