

SPRINT 4-REPORT

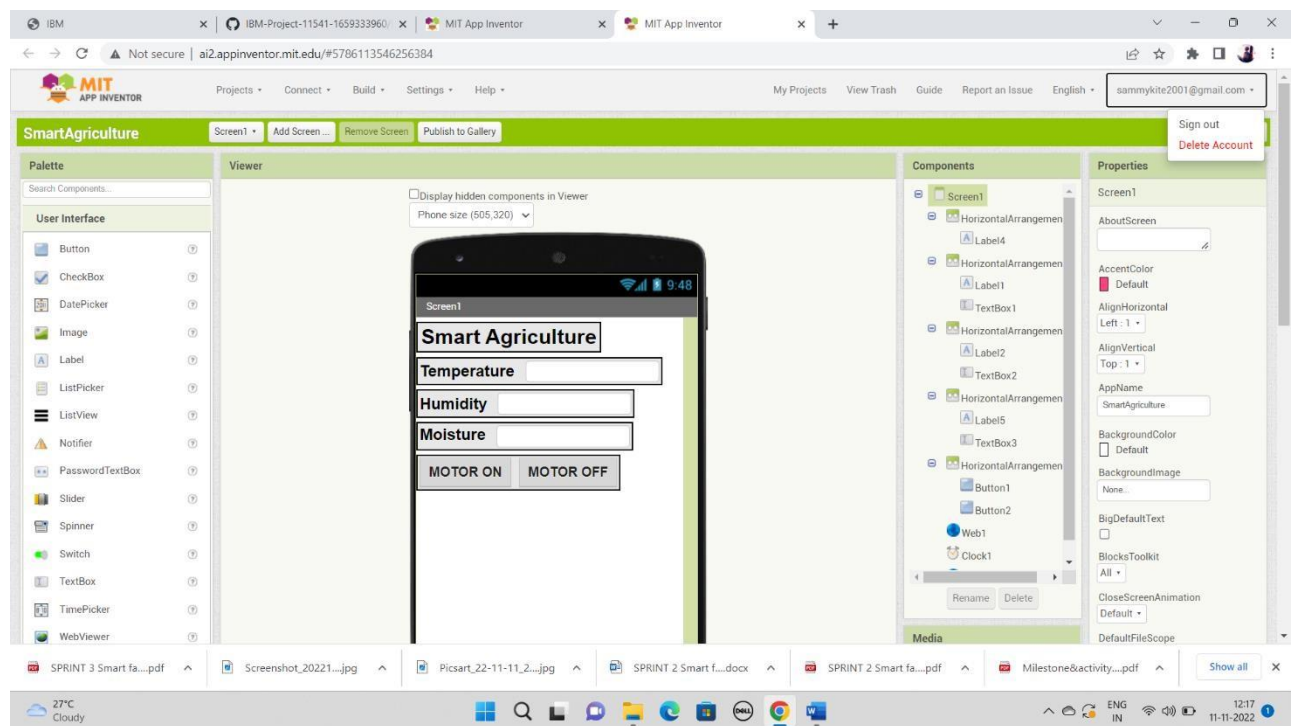
**SMART FARMER-IoT BASED SMART
FARMING APPILCATION**

TEAM ID : PNT2022TMID50396

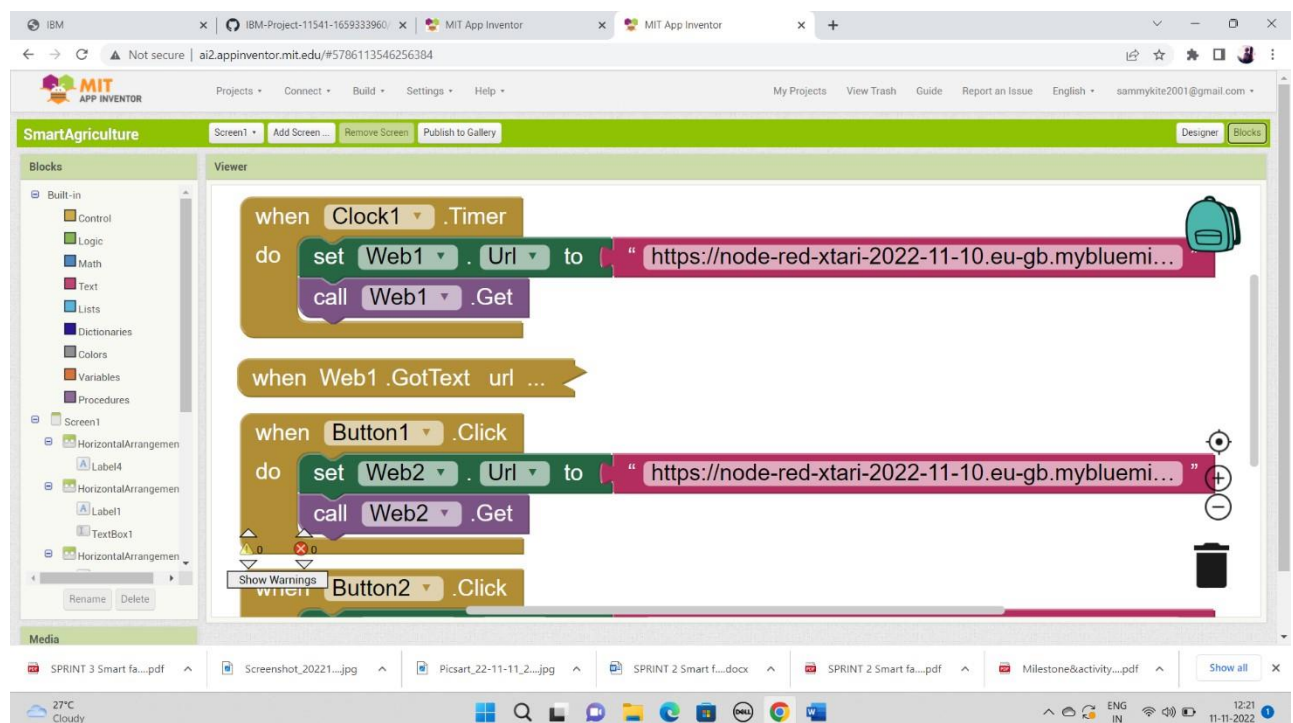
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TEAM MEMBERS : 1. J.MANISHA
2.I.ESAI MALATHI
3.M.SUBA
4.I.ARTHI

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 in a browser window. The project is named "SmartAgriculture" and is currently in the "Designer" view. The interface includes a "Blocks" palette on the left and a "Viewer" area on the right showing the code blocks.

Blocks Palette:

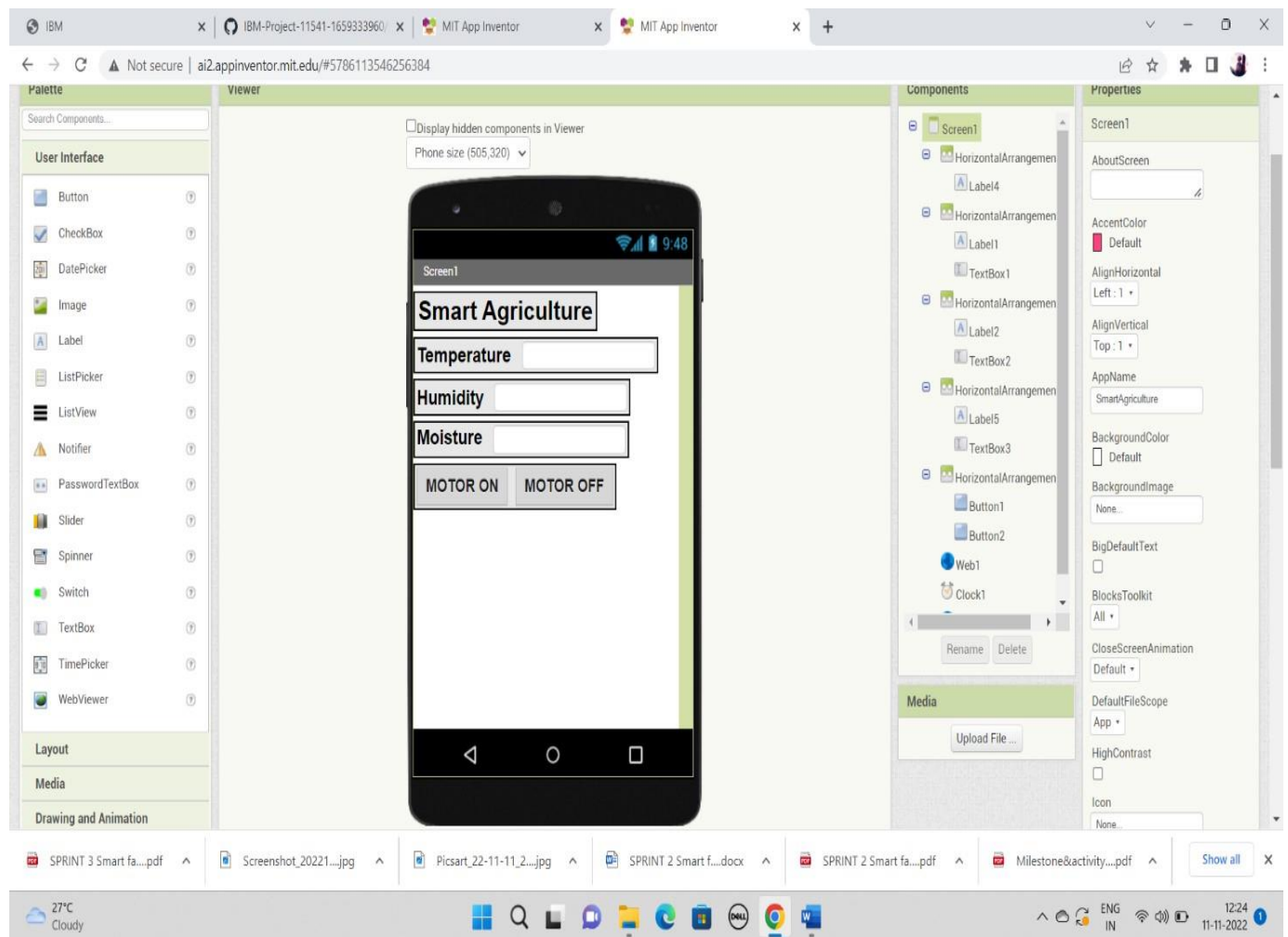
- Built-in
 - Control
 - Logic
 - Math
 - Text
 - Lists
 - Dictionaries
 - Colors
 - Variables
 - Procedures
- Screen1
 - HorizontalArrangemen
 - Label4
- HorizontalArrangemen
 - Label1
- TextBox1
- HorizontalArrangemen

Code Blocks in the Viewer:

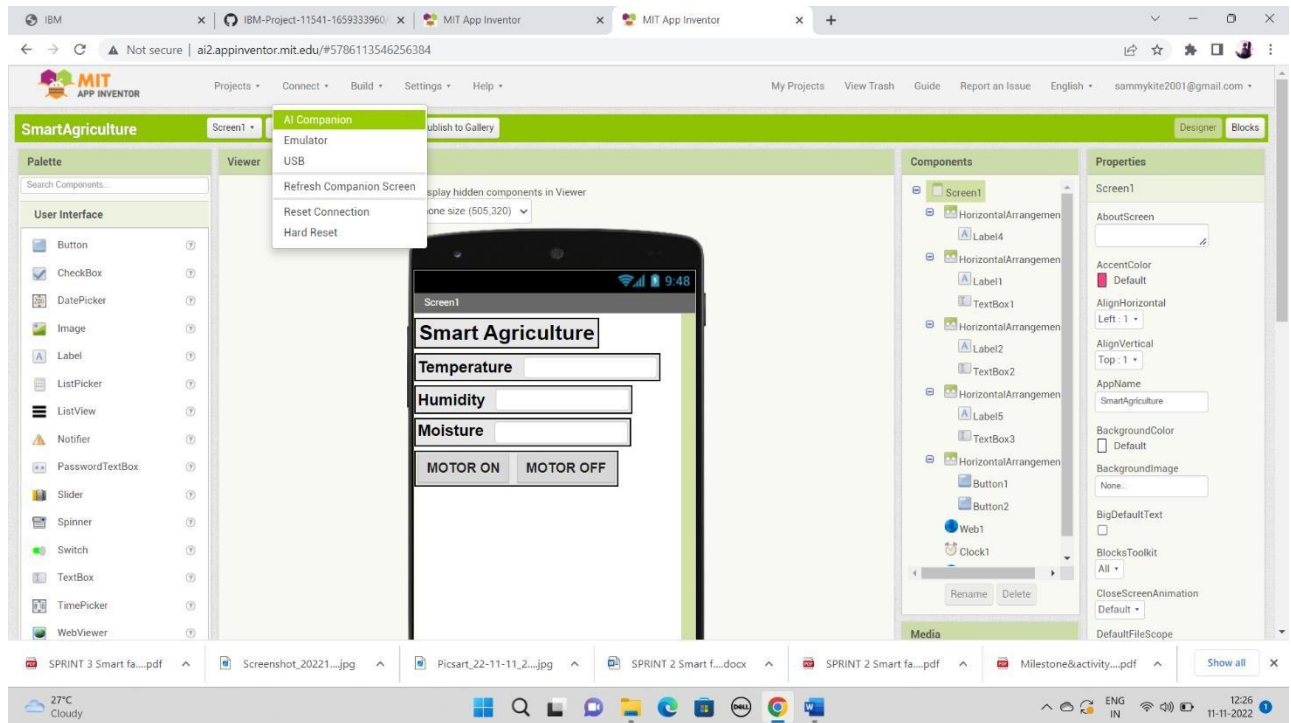
- Block 1:** "when Clock1.Timer" (yellow block) with a "do" loop containing:
 - "set Web1.Url to" (green block) with the URL "https://node-red-xtari-2022-11-10.eu-gb.mybluemix.net"
 - "call Web1.Get" (purple block)
- Block 2:** "when Web1.GotText url ..." (yellow block)
- Block 3:** "when Button1.Click" (yellow block) with a "do" loop containing:
 - "set Web2.Url to" (green block) with the URL "https://node-red-xtari-2022-11-10.eu-gb.mybluemi..."
 - "call Web2.Get" (purple block)
- Block 4:** "when Button2.Click" (yellow block) with a "do" loop containing:
 - "set Web2.Url to" (green block) with the URL "https://node-red-xtari-2022-11-10.eu-gb.mybluemi..."
 - "call Web2.Get" (purple block)

The bottom of the browser window shows a Windows taskbar with the date and time "11-11-2022 12:23".

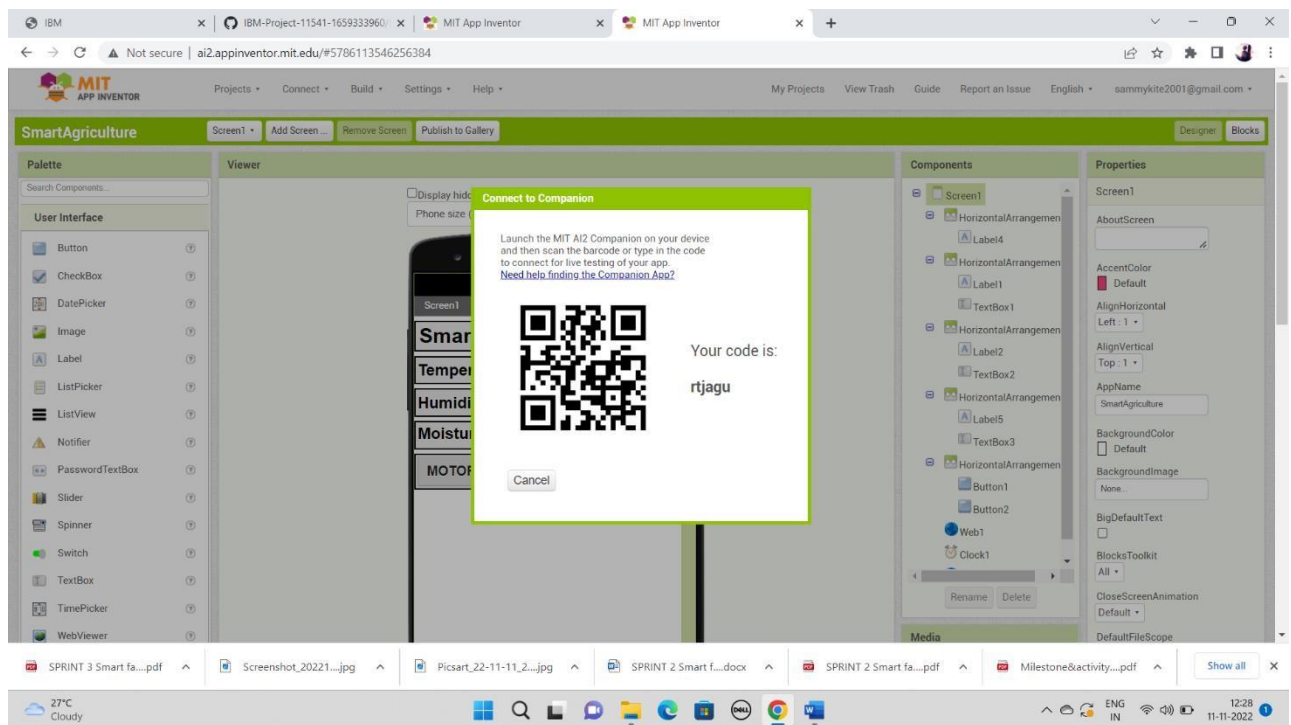
Creating the Mobile Interface



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

Temperature 69

Humidity 54

Moisture 45

MOTOR ON

MOTOR 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
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11/11/2022, 1:51:11 AM node: IBM IoT
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