Date 20/7/2023

CSM3313

IOT COMPUTING

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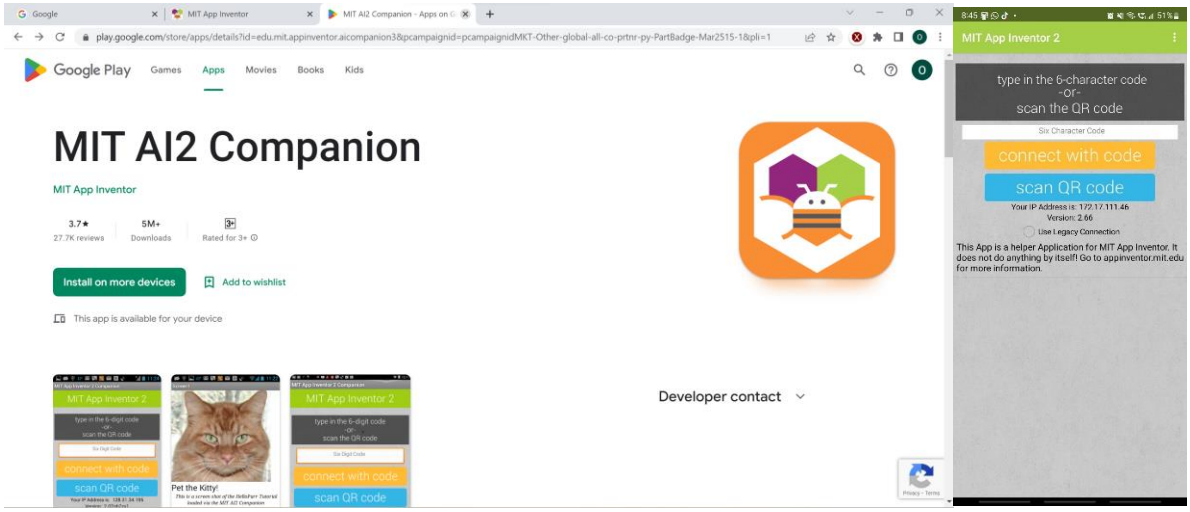
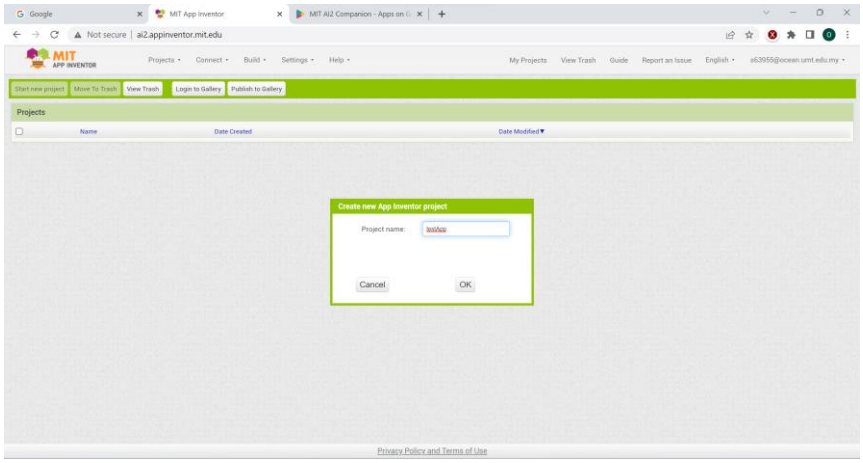
OMAR ISMAIL ABDJALEEL ALOMORY

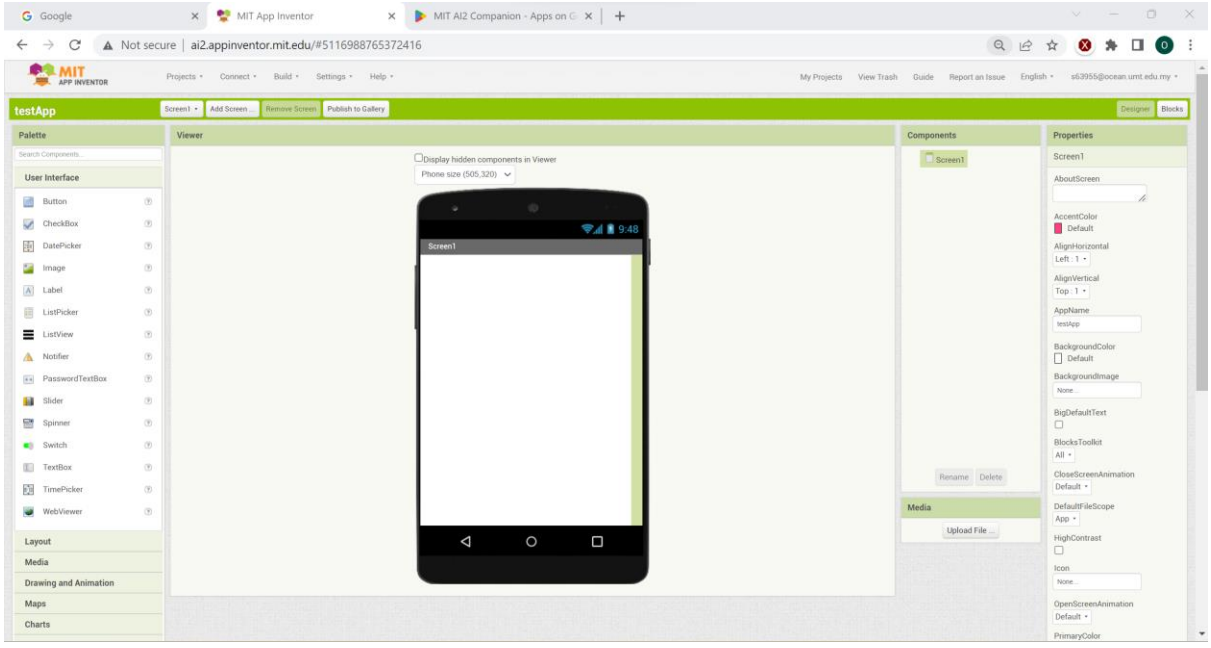
LAB 3(MP2)

Installing the app to my phone **phone view**

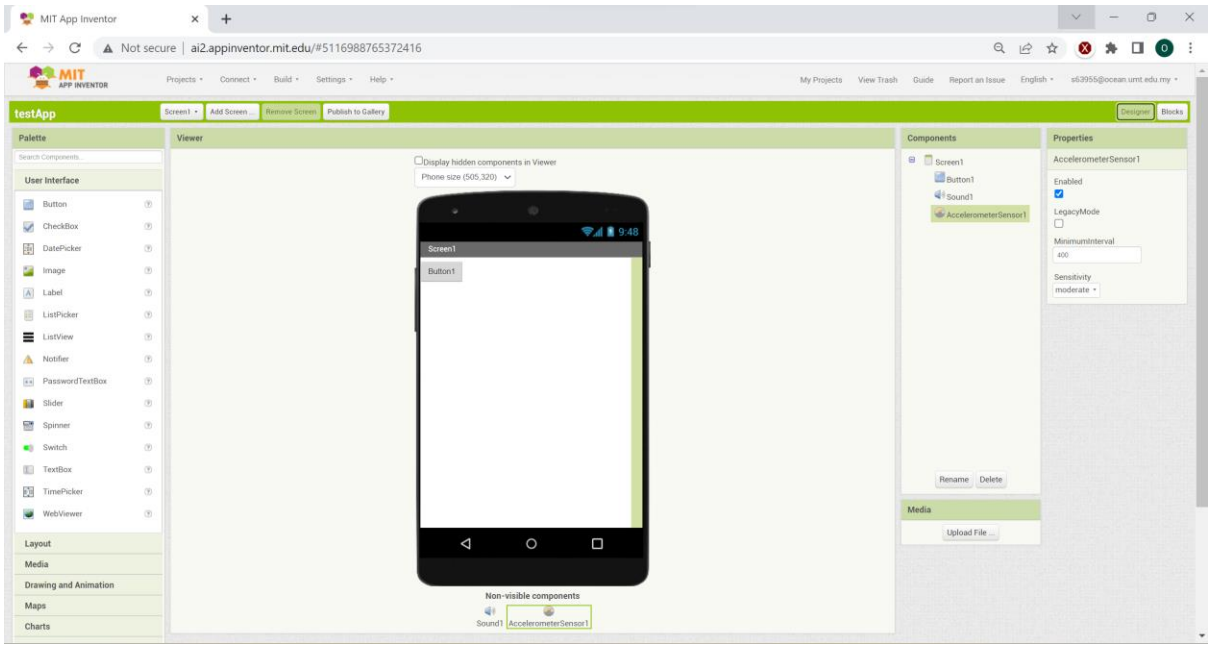


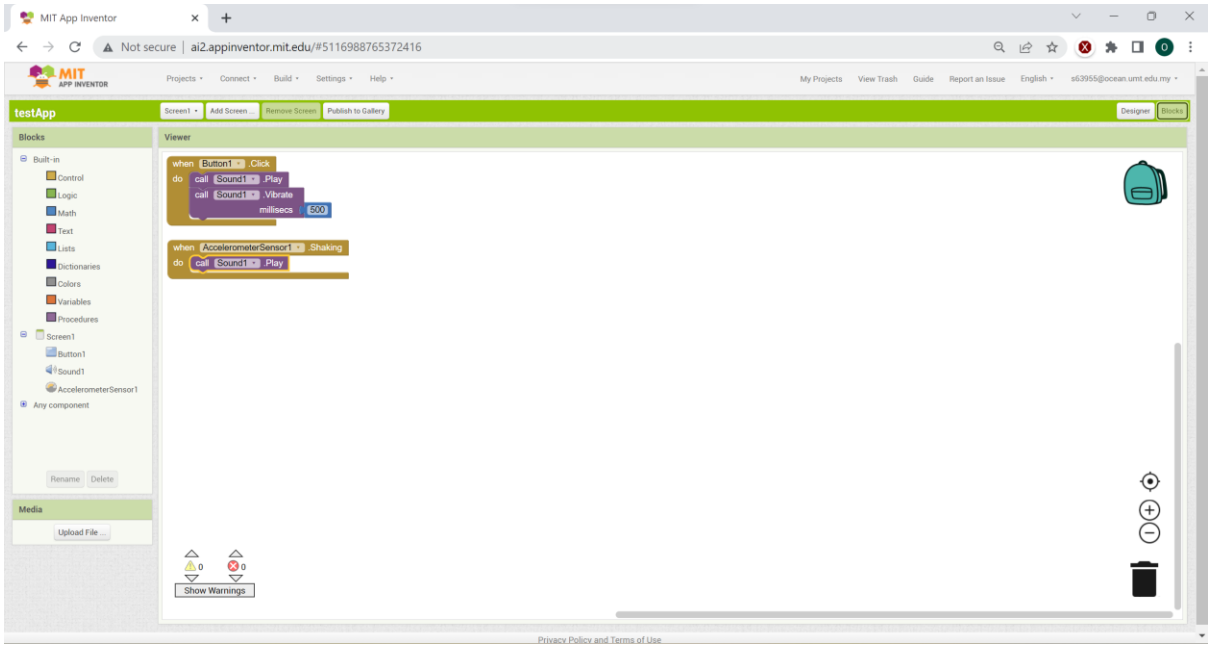
Creating testApp project





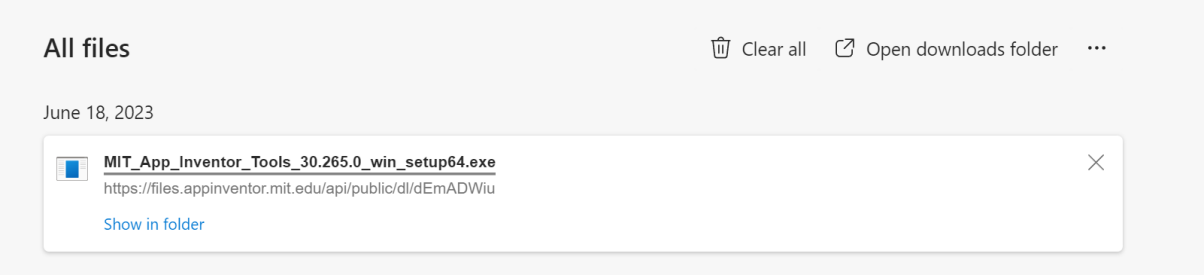
Adding the component to the app





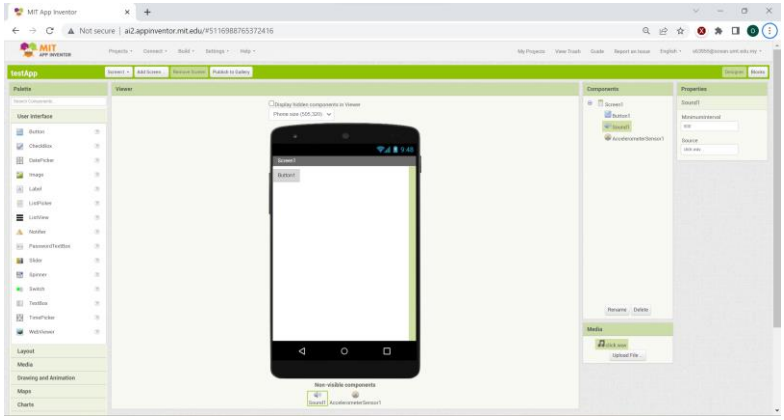
LAB 2: SETTING UP CONNECTION FOR MIT APP INVENTOR 2

MIT app inventor tools installed successfully to my laptop. I have downloaded it in case we will need it in future. But I am going to do the steps of connection via wifi.



Connection made successfully.

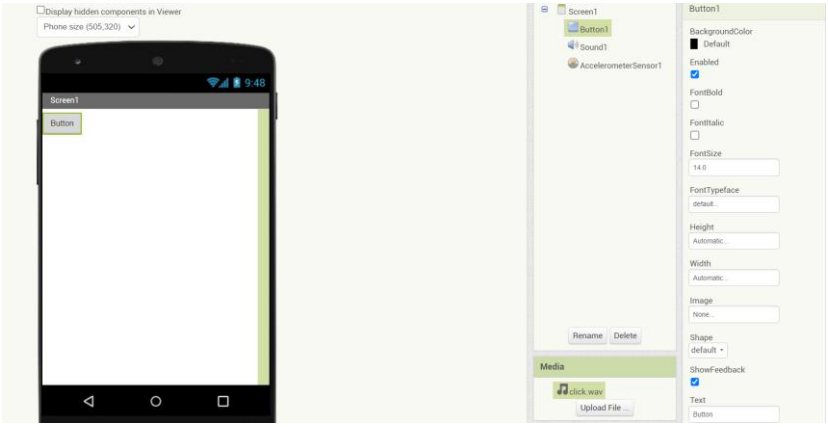
MIT Website view



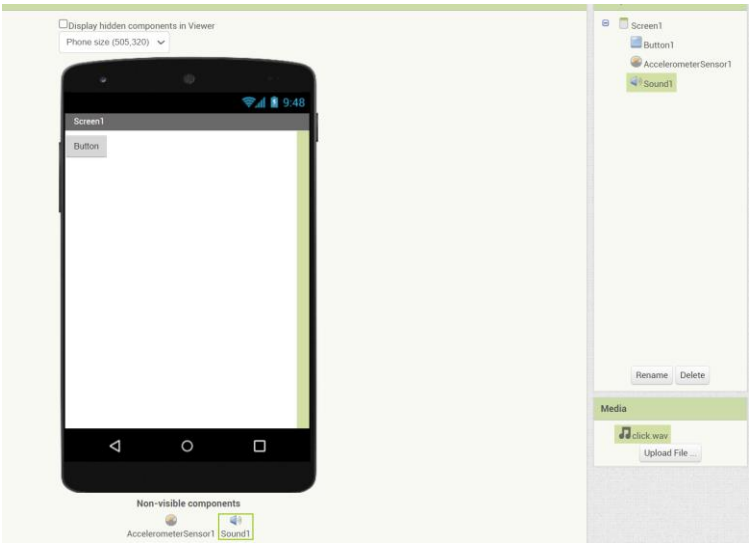
Phone view: all the button and vibration is just working fine, I also uploaded media to test it and it works as well.

LAB 3: BUILDING YOUR FIRST APP USING MIT APP INVENTOR 2

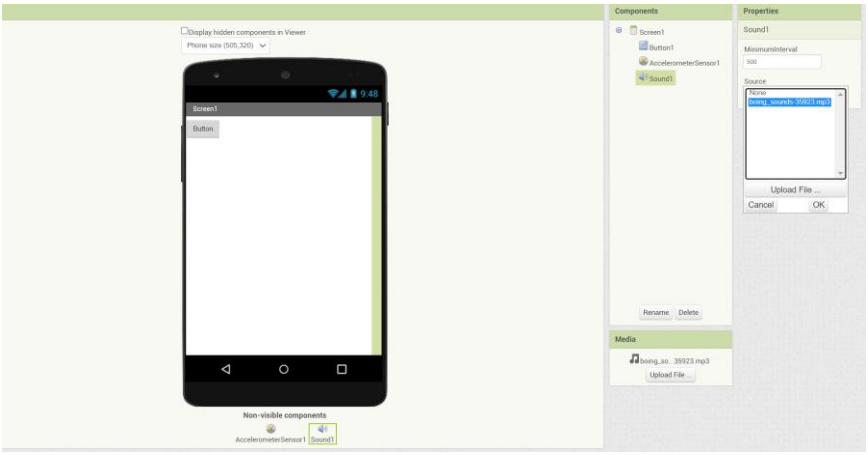
adding button and changing its name from text button1 to button



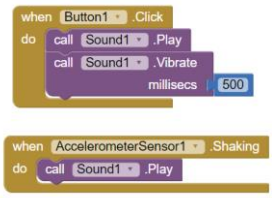
Adding Accelerometer sensor and Sound



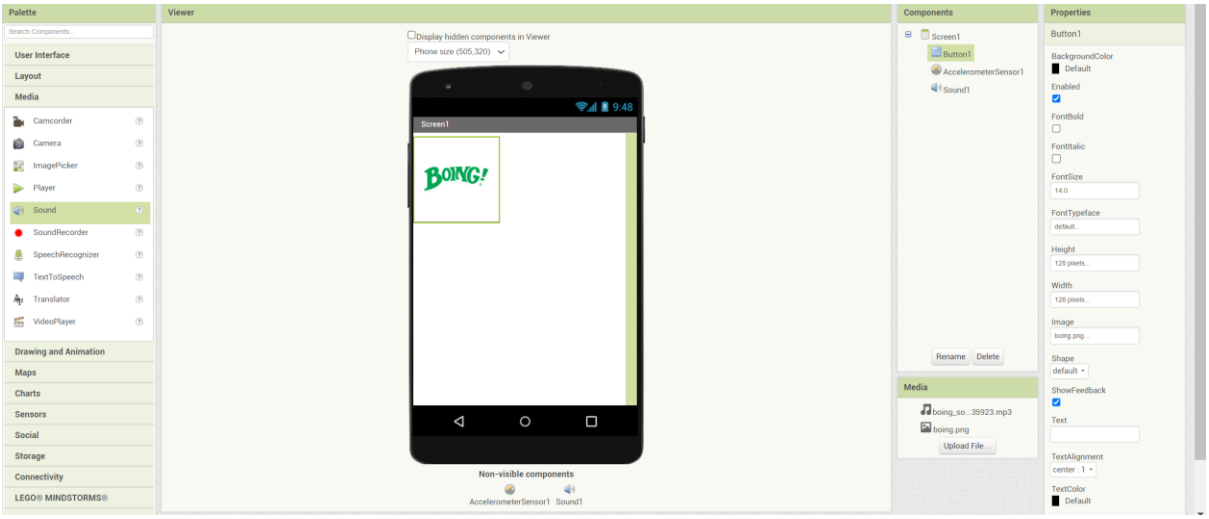
Uploading and adding the sound to our component



Implementing code in MIT App Inventor



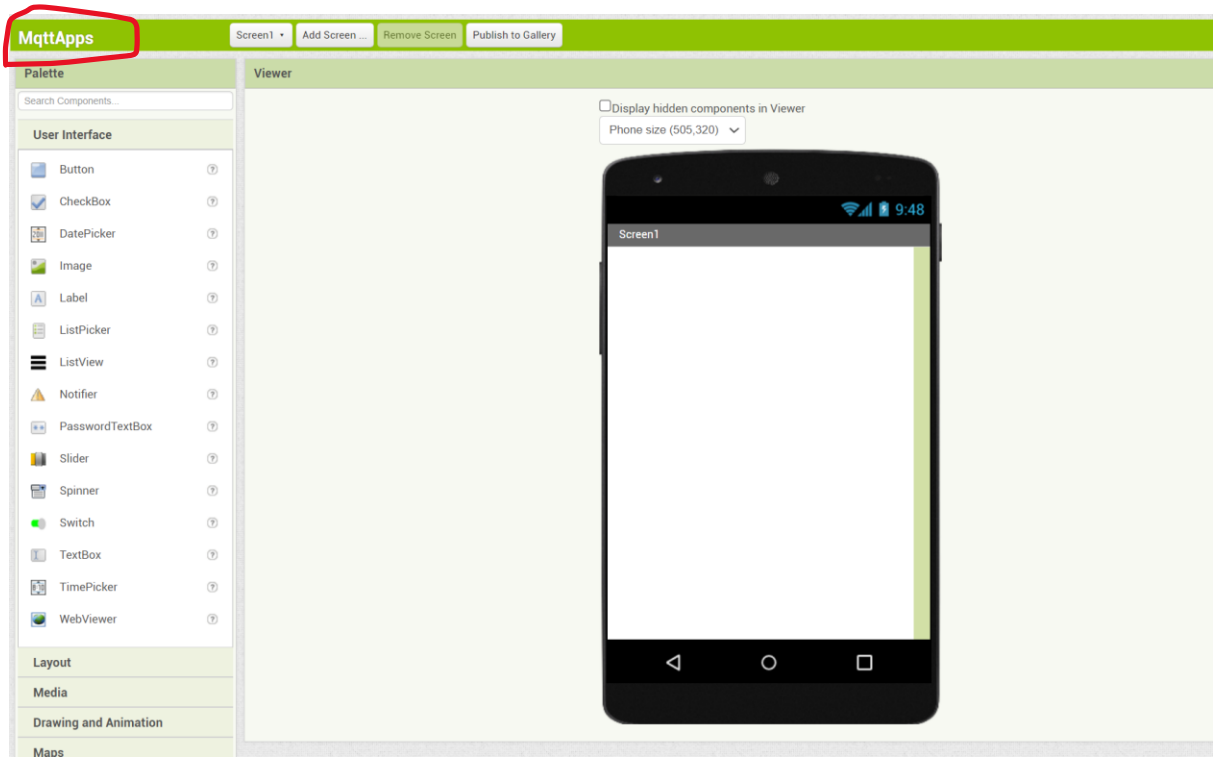
Website view



Phone view: when we click the boing image it trigger the sound effect and vibration, also when we shake the phone it triggers the sound effect.

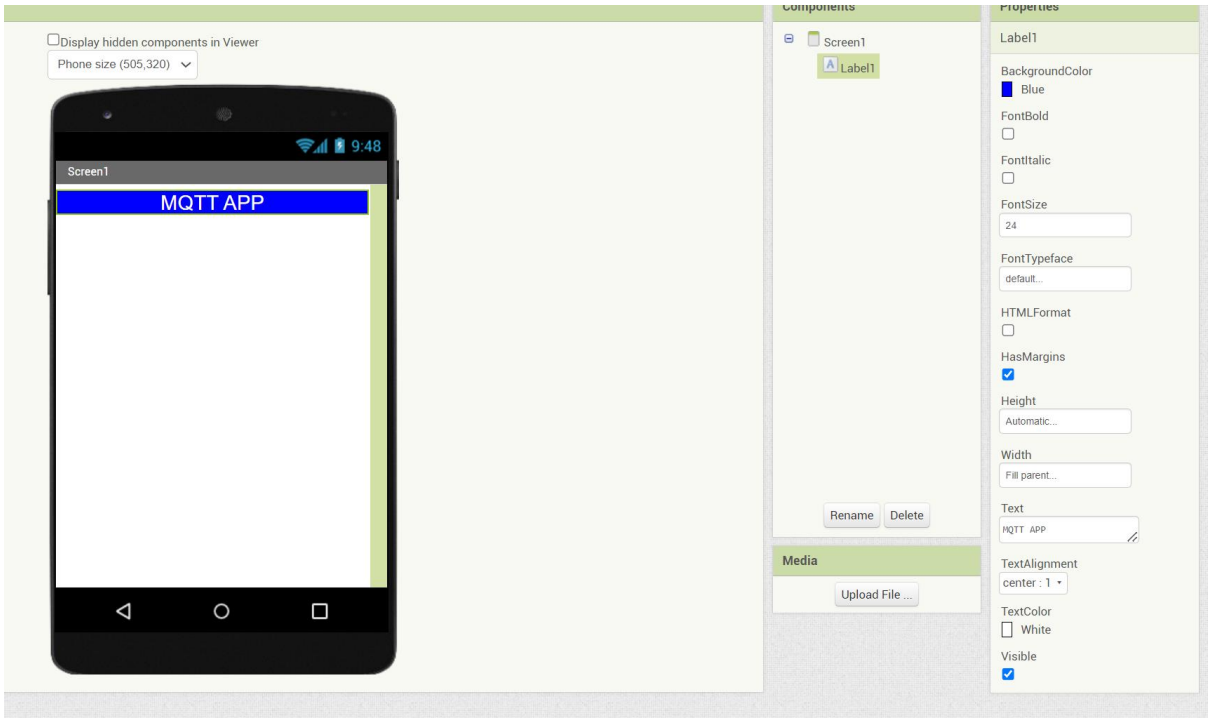
LAB 4: DEVELOPING INTERNET OF THINGS APP USING MIT APP INVENTOR 2

creating new project called MqttApps



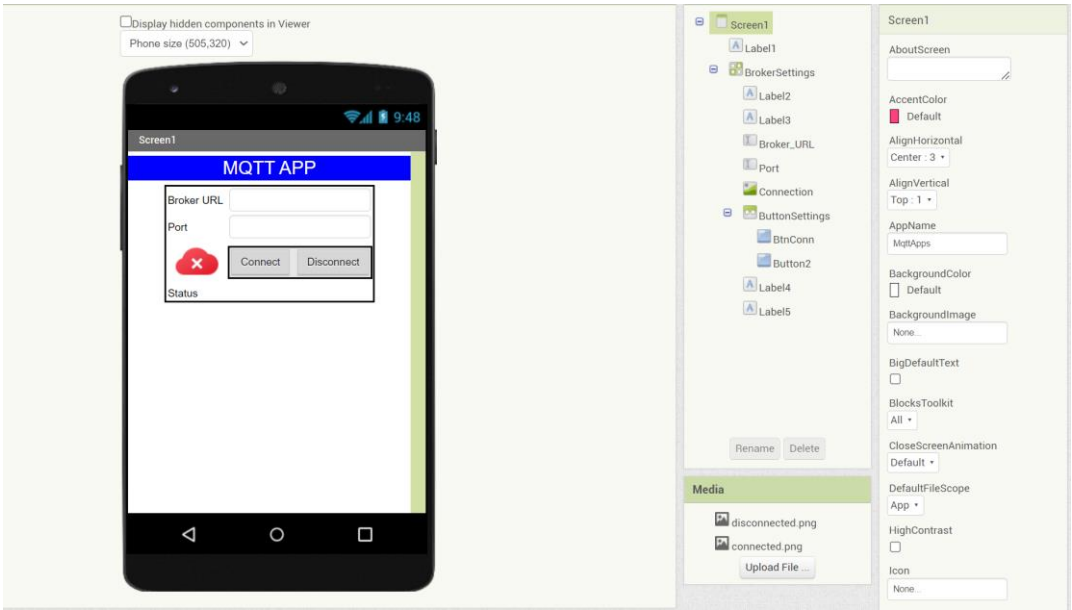
Designing the Broker Settings

Changing label properties:

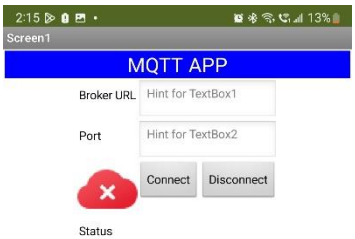


Final output

Website view



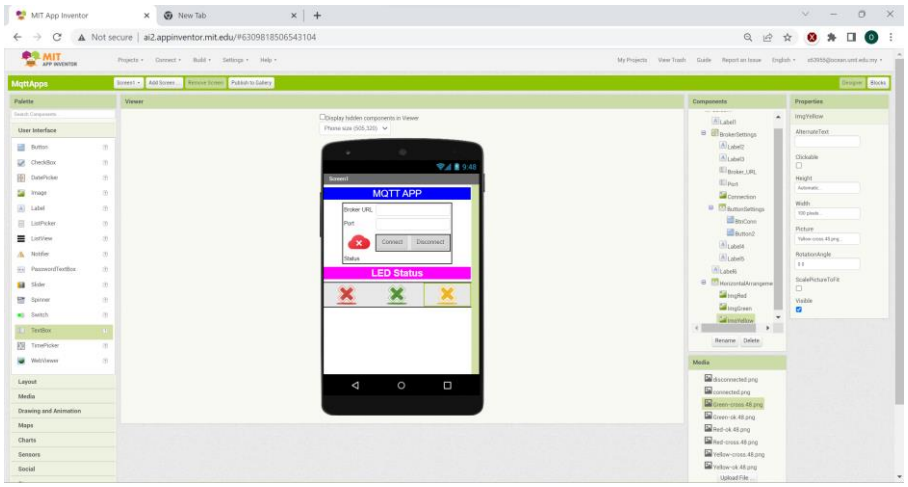
Phone view



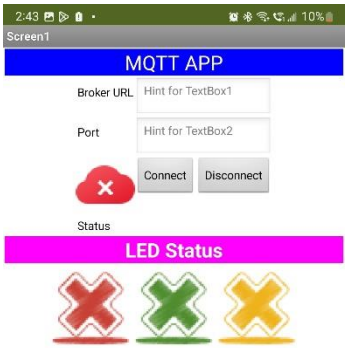
Designing LED Status

Final output

website view

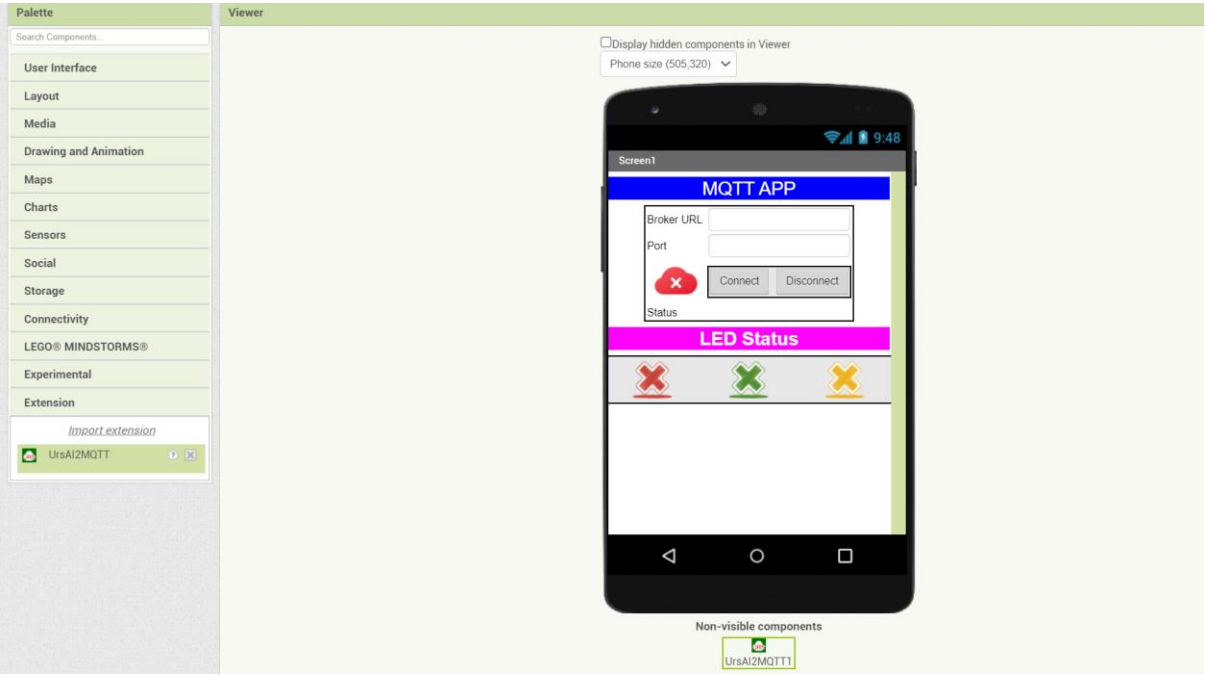


Phone view

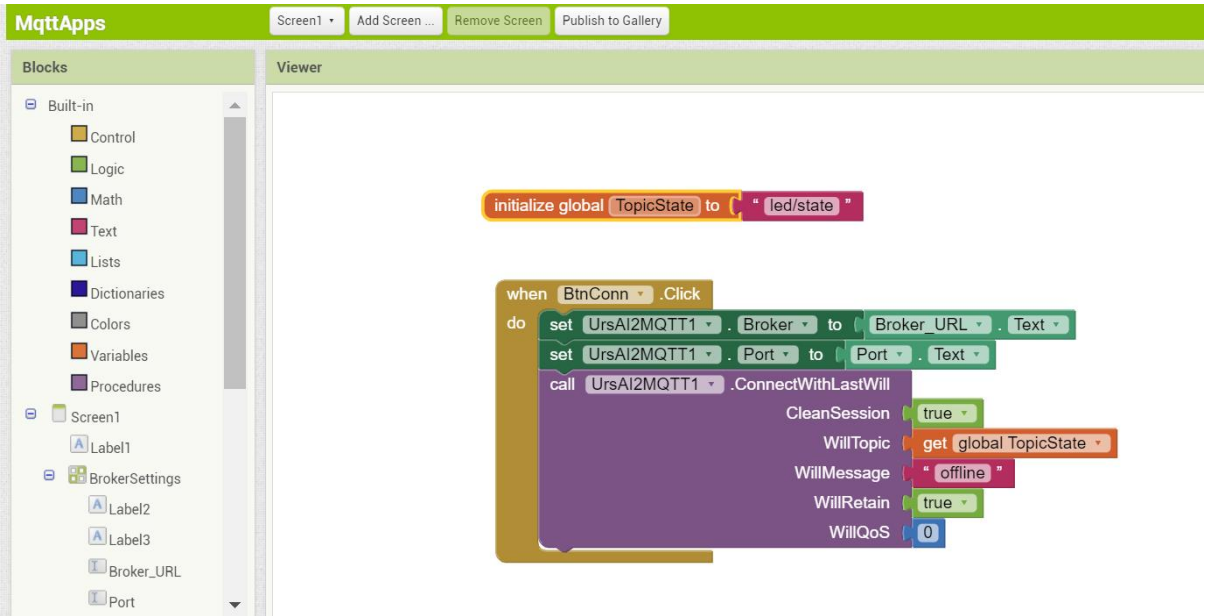


Coding the Connection Settings

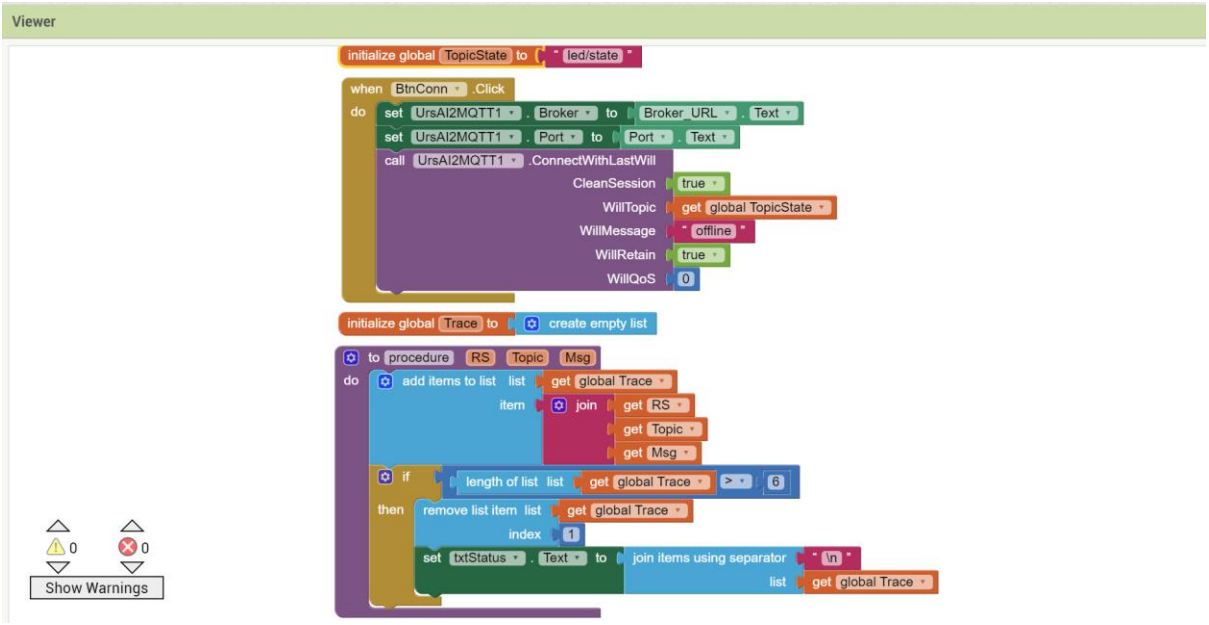
Downloading and importing the required extension



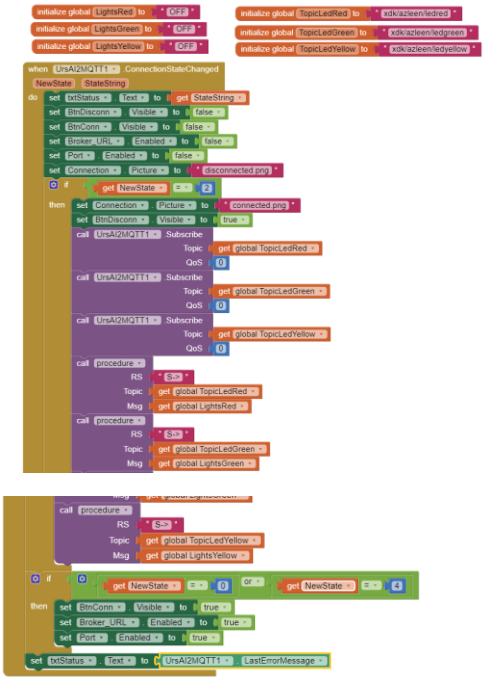
Building the initiation for connection



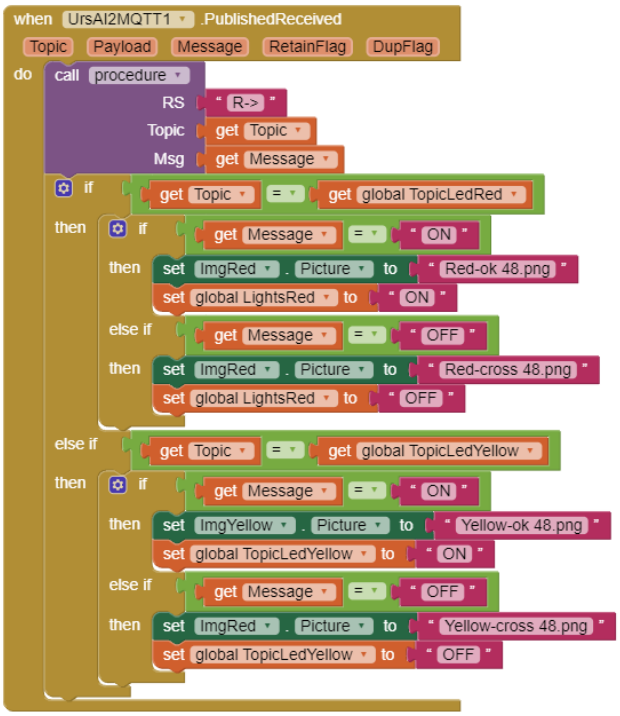
Coding the Topic Settings



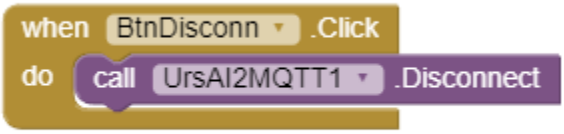
Coding the Connection Change Settings



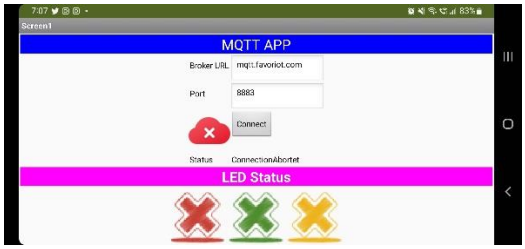
Coding the Received Payload

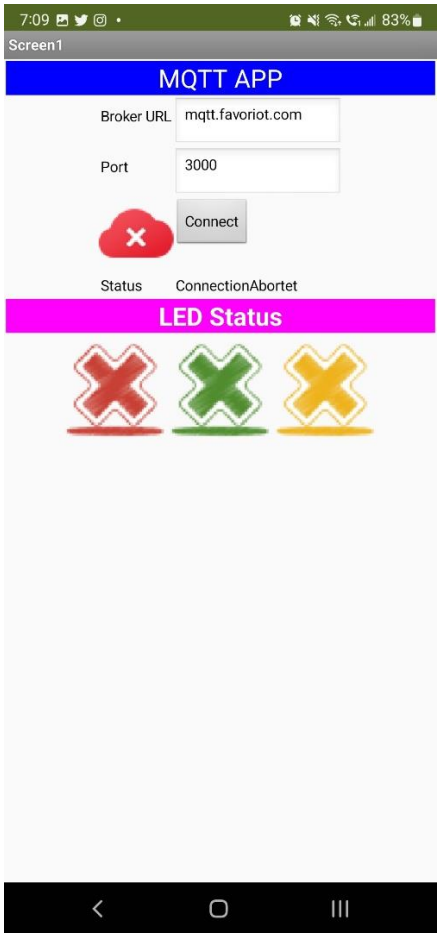


Coding the Disconnect Button



Although I tied to enter the broker URL and the port but I could not connect 🦜 . Port 8883 amd 3000





The references for the port number, it was collected from favoriot website

Configuration

Send / Publish data

Use the following configuration to setup your device to send / publish data.

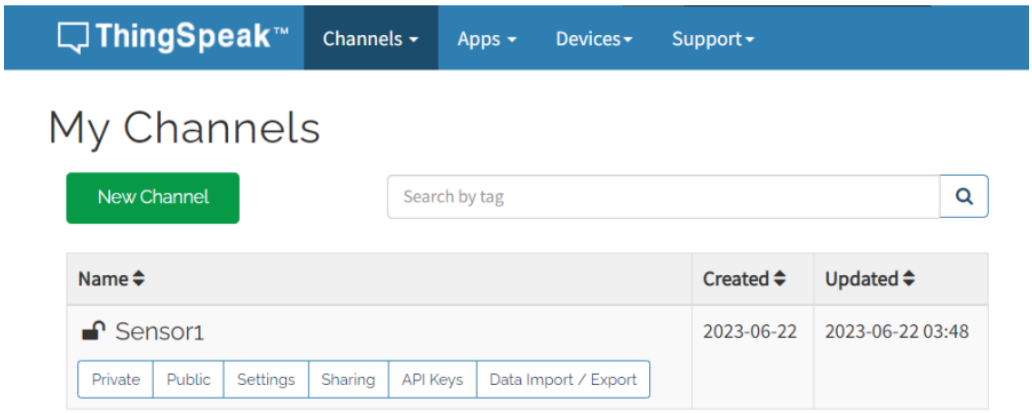
```
Host : mqtt.favoriot.com
```

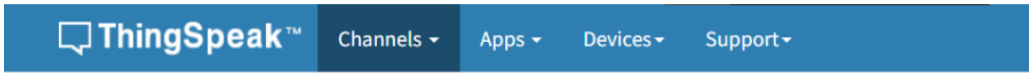
```
Standard Ports: 1883 and 8883 ( for secure connection using TLS/SSL)
```

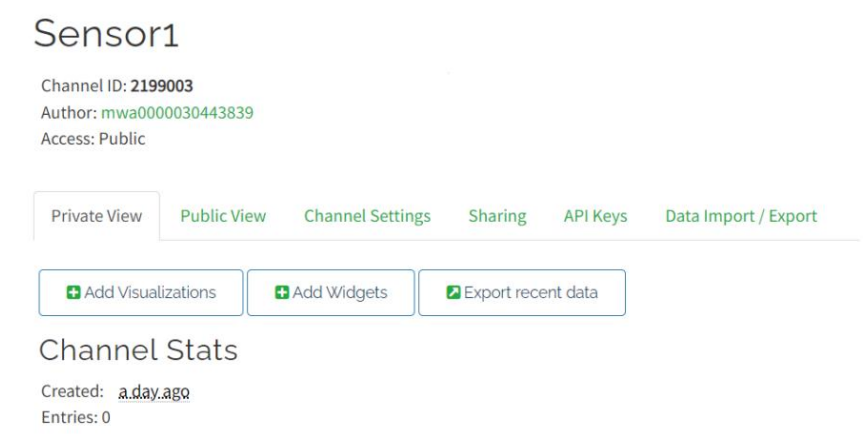
```
Websocket Port : 3000
```

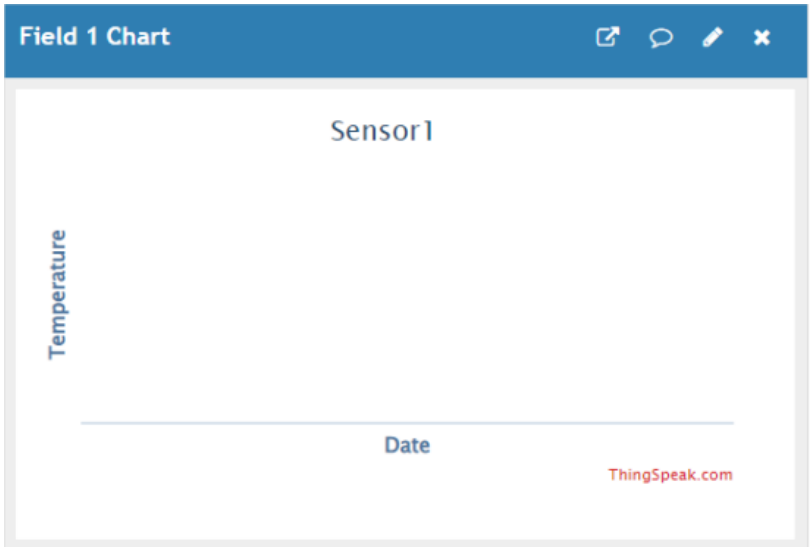
LAB 5: DATA VISUALIZATION USING MIT APP INVENTOR 2

ThingSpeak.

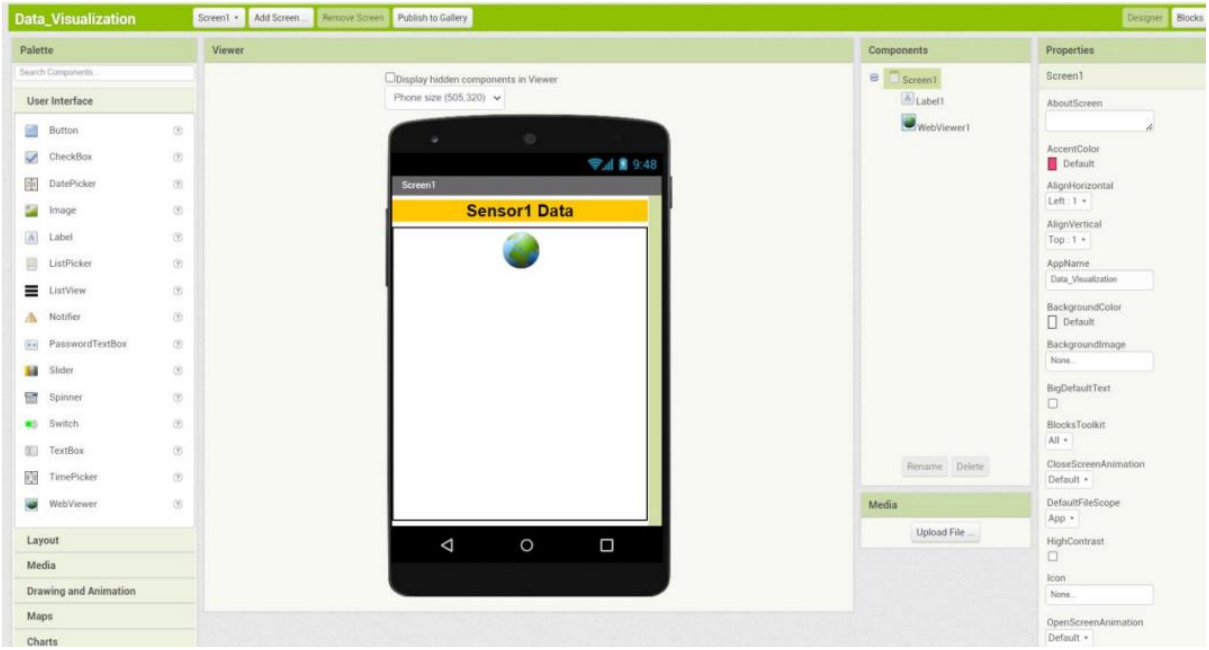


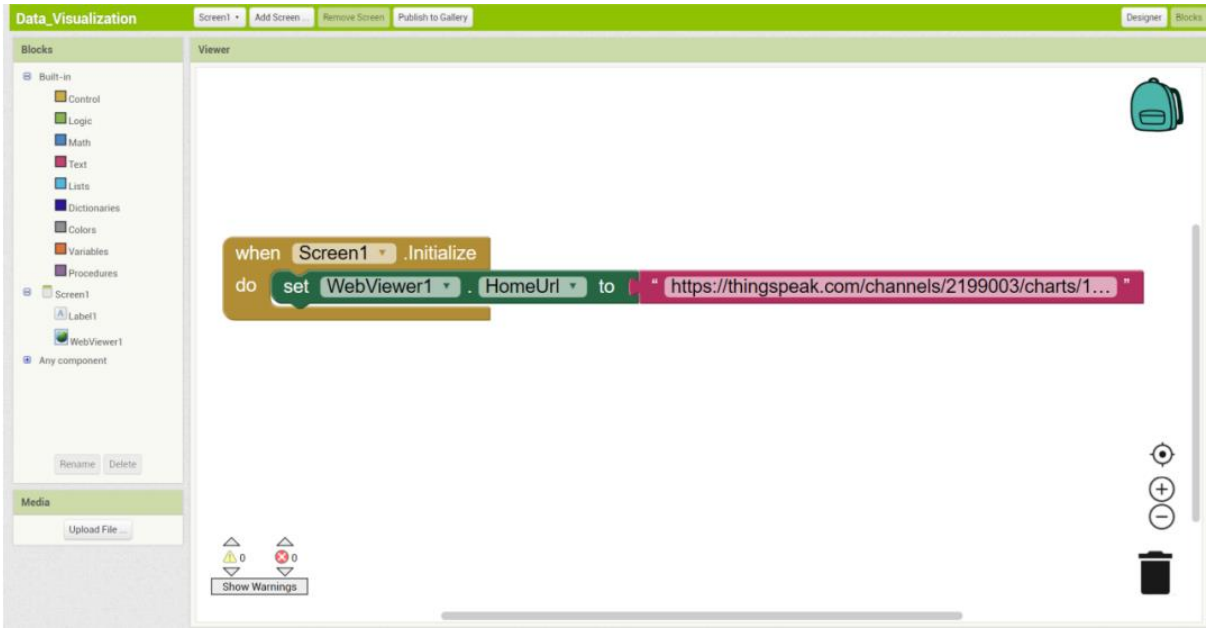




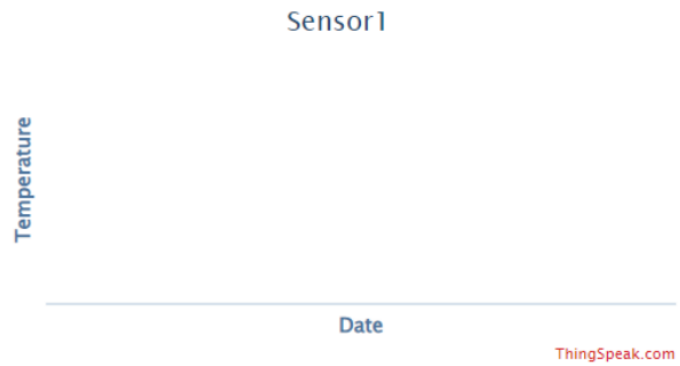


MIT App Inventor

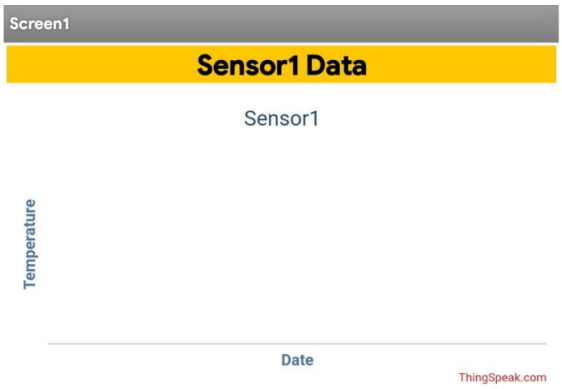




Web screenshot



App Screenshot



Done, thank you very much DR. ❤️‍🩹
