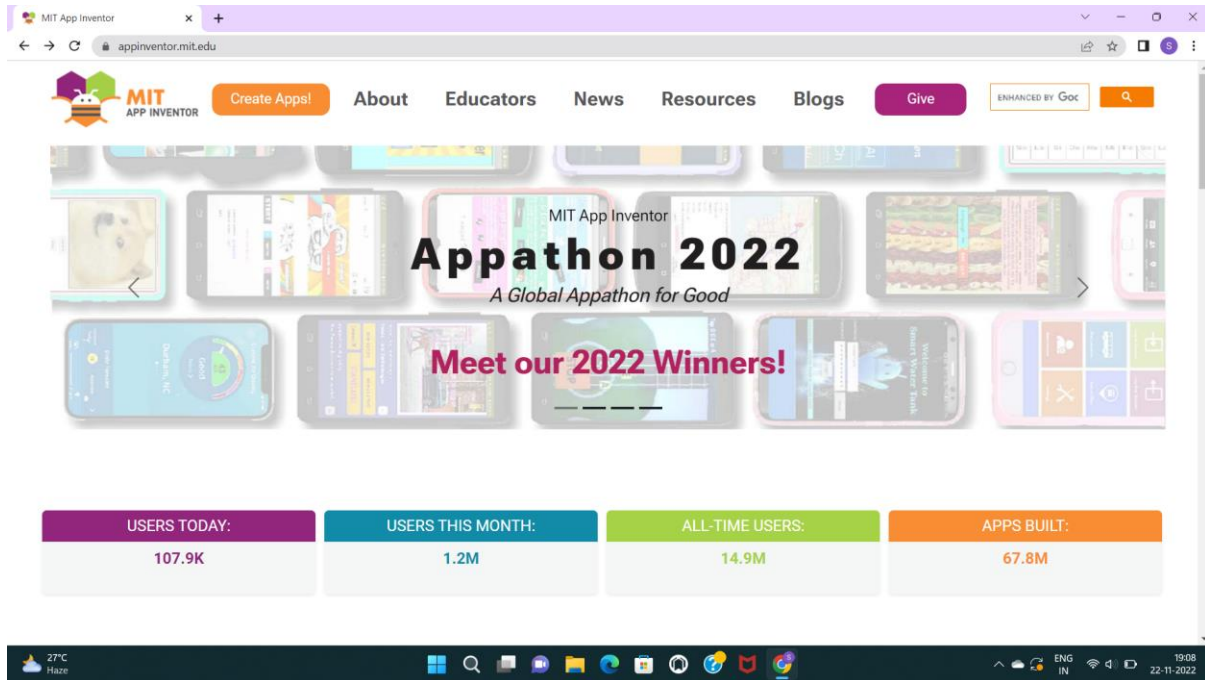


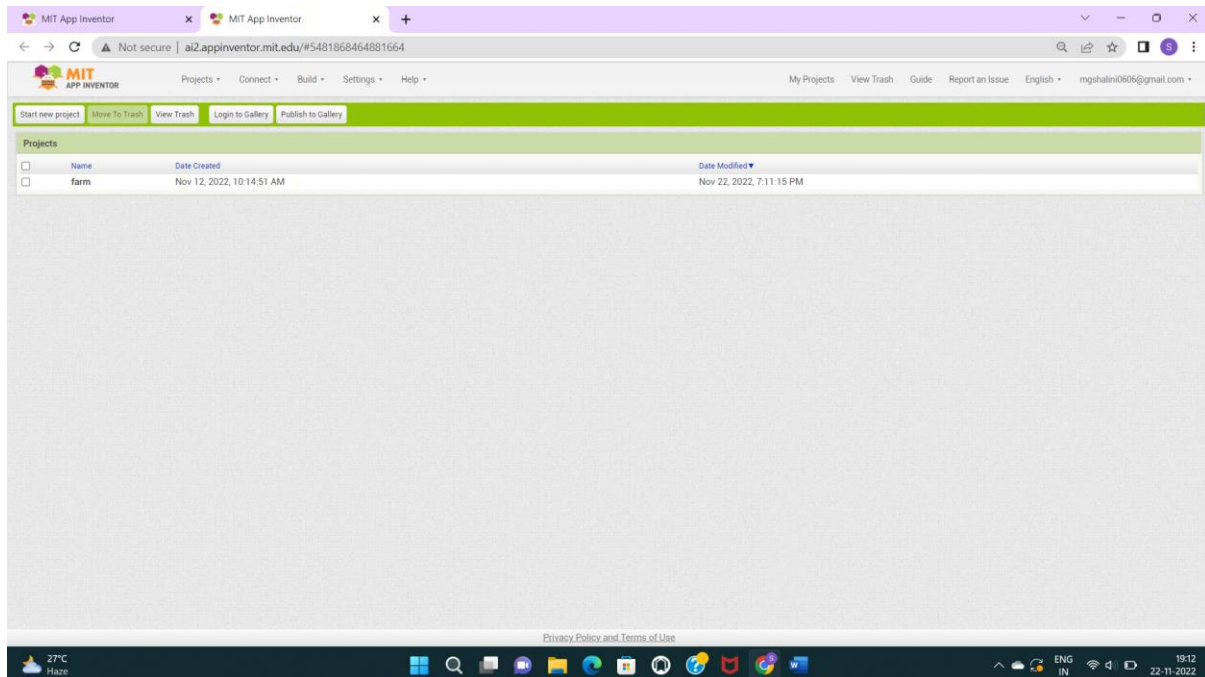
BUILD A MOBILE APPLICATION

Team ID	PNT2022TMID11377
Project Name	Smart Farmer-IOT Enabled Smart Farming Application

Step 1: Go to MIT App inventor Website



Step 2: Sign up and click on start new project and enter the project name



Step 3: The User Interface

The user interface for Smart Farming app uses the following visible components:

- A Horizontal Arrangement component
- Buttons
- A Text Box
- Label

Non Visible Components:

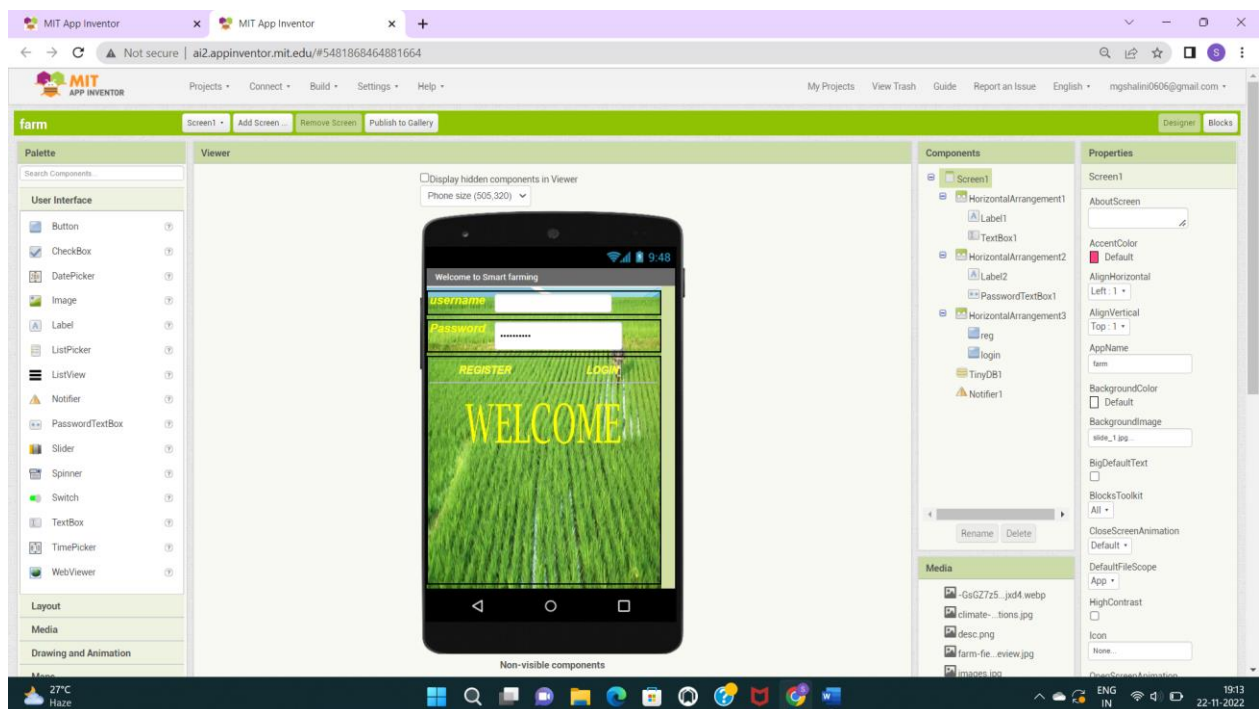
- Tiny DB
- Notifier
- Web

Adjust the Properties of the visible components as follows:

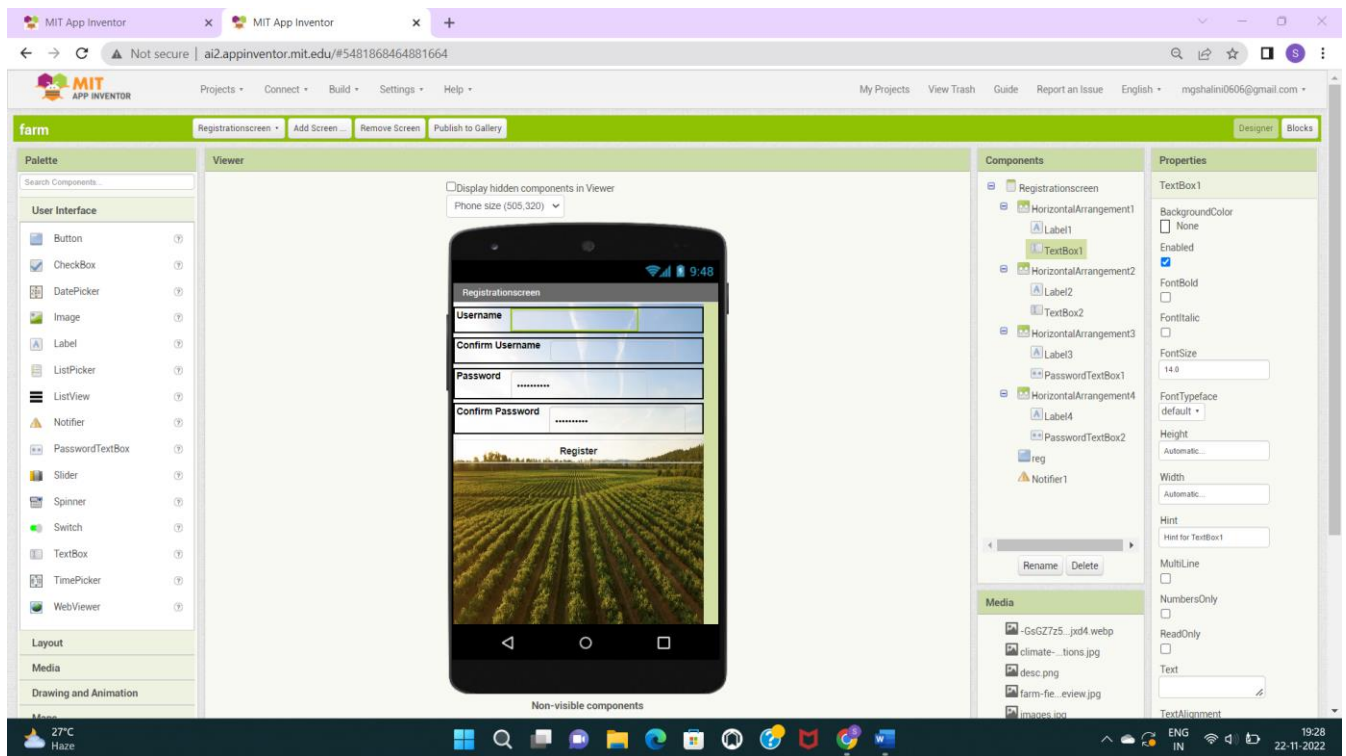
- Place the appropriate Text on each button and set the Font Size
- Set the Text property of the Text Box
- Set the Width of all components to Fill parent.
- Set the Height to Automatic.

Front end:

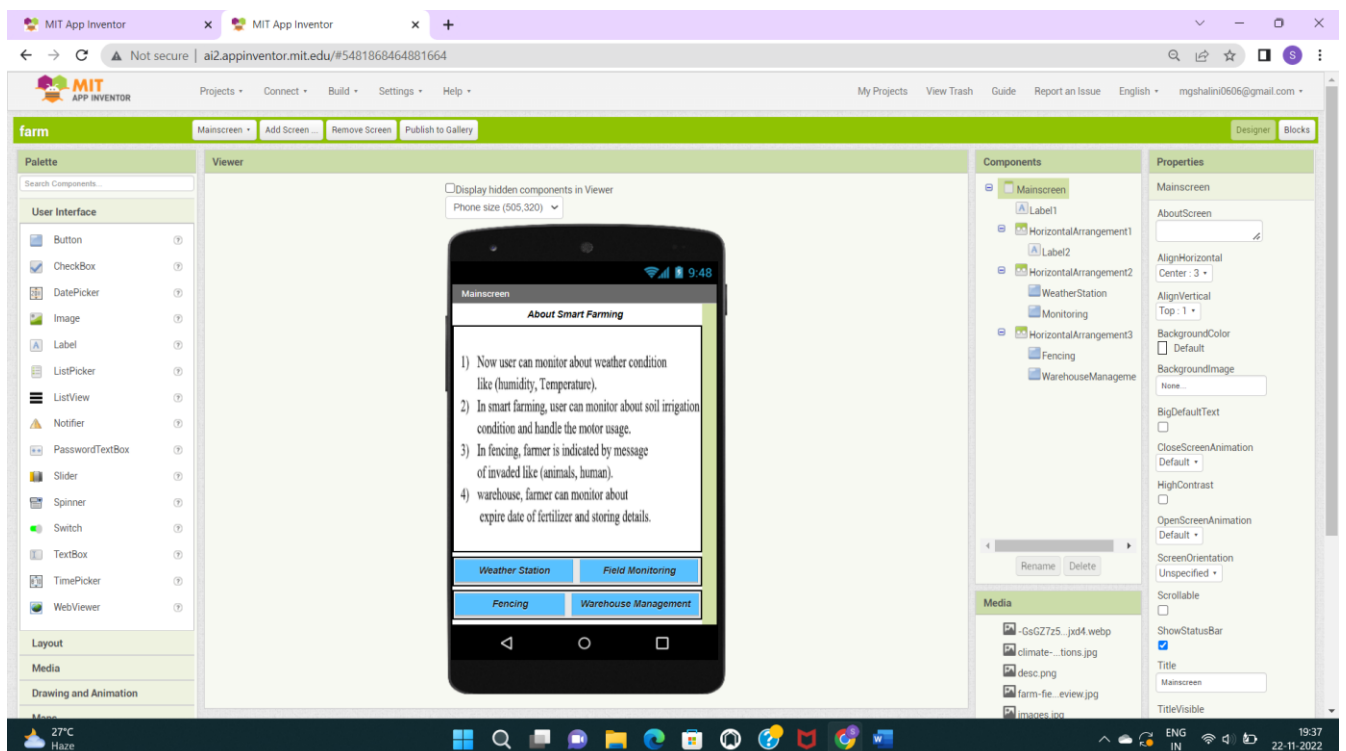
1. In the Login Screen type your username and password if the login is incorrect, it notifies as incorrect login as popup message.



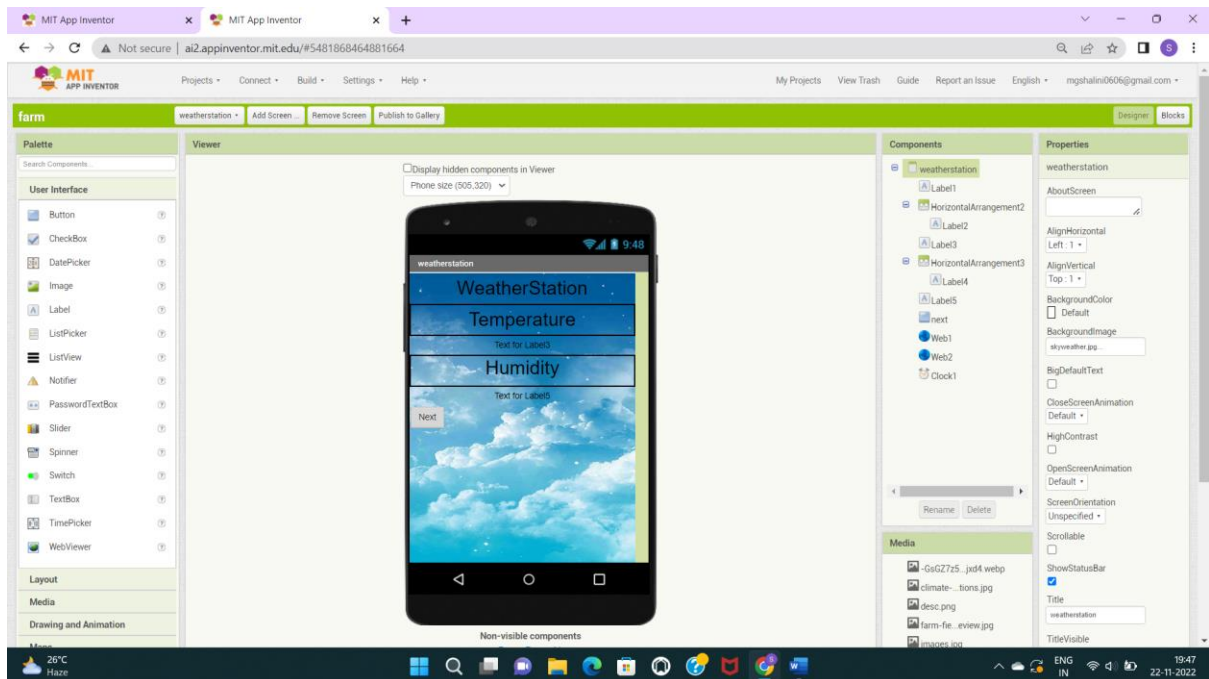
2. In the registration screen type the correct username and password then click on the register button to complete the registration process.



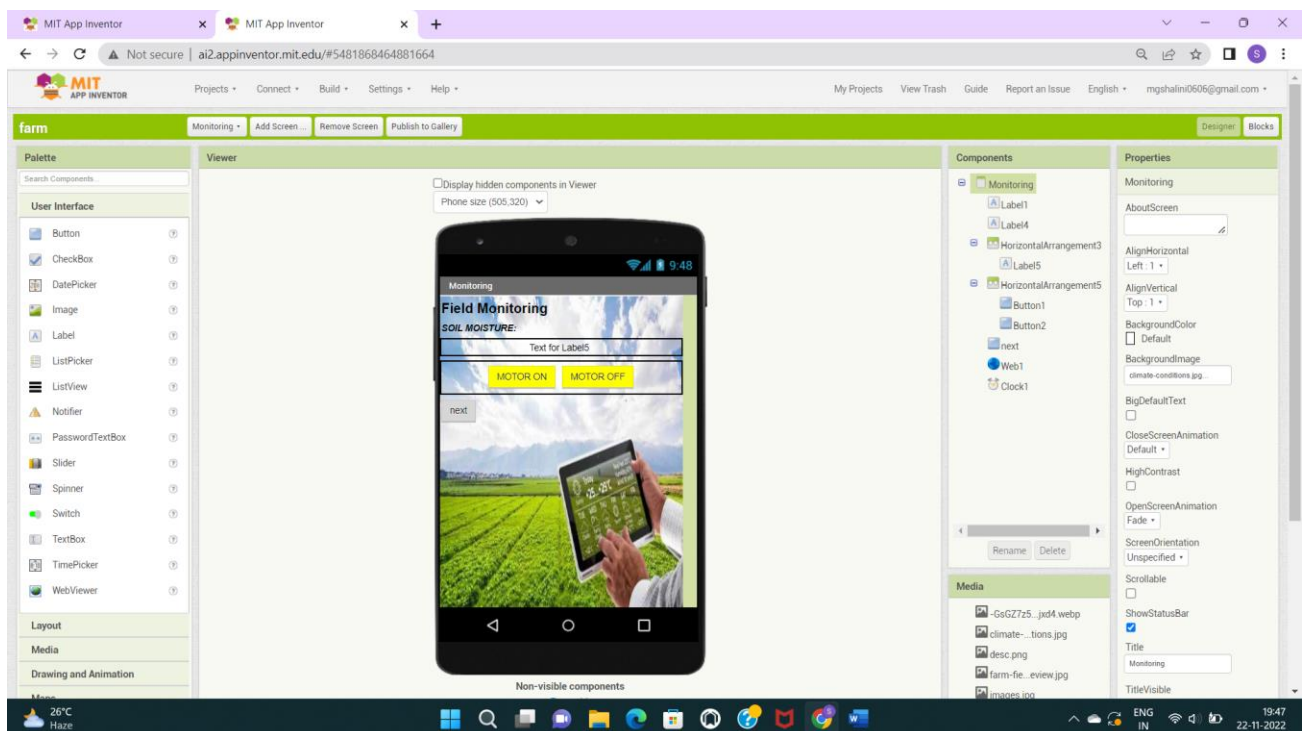
3. Main screen consists of four buttons Weather station, Field Monitoring, Fencing and Warehouse management.



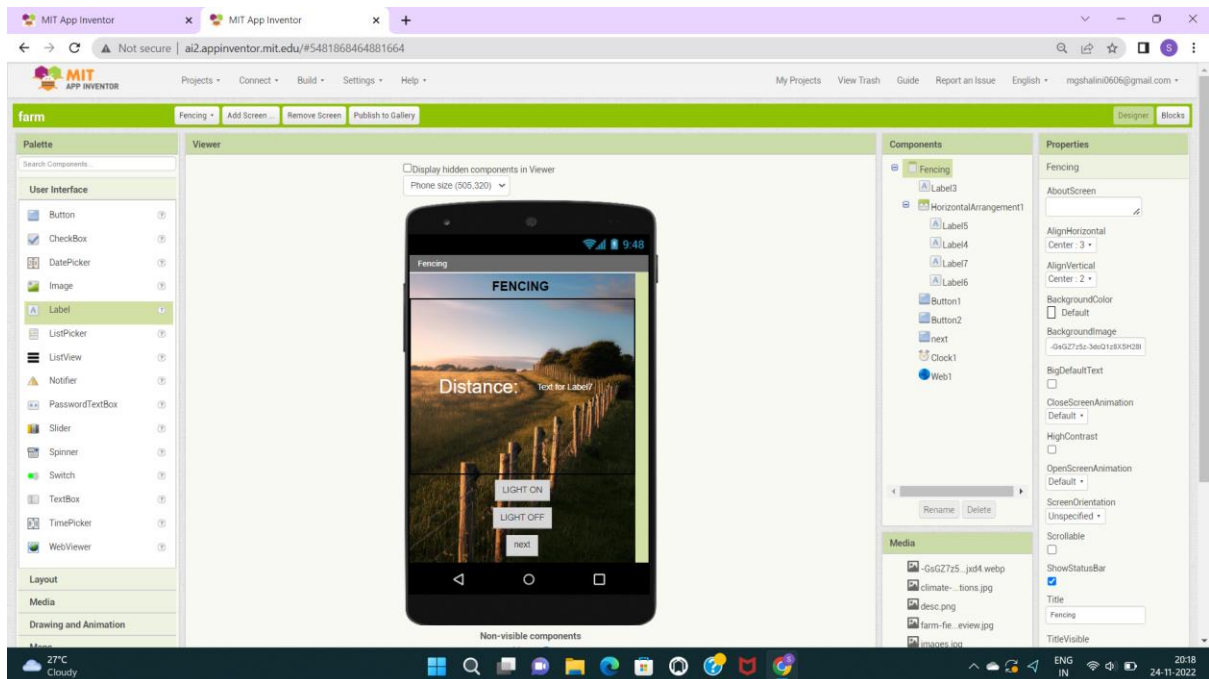
4. Weather station contains the temperature and humidity value.



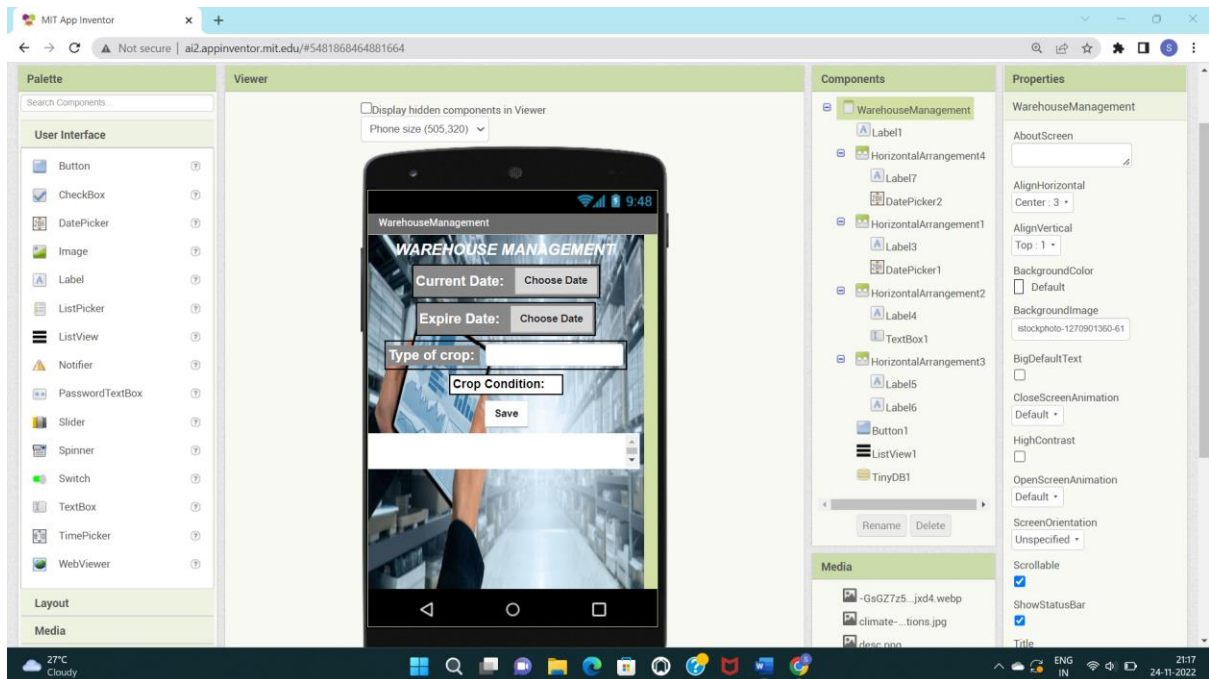
5. Field Monitoring produces soil moisture value and will control the motor by clicking motor on and motor off button



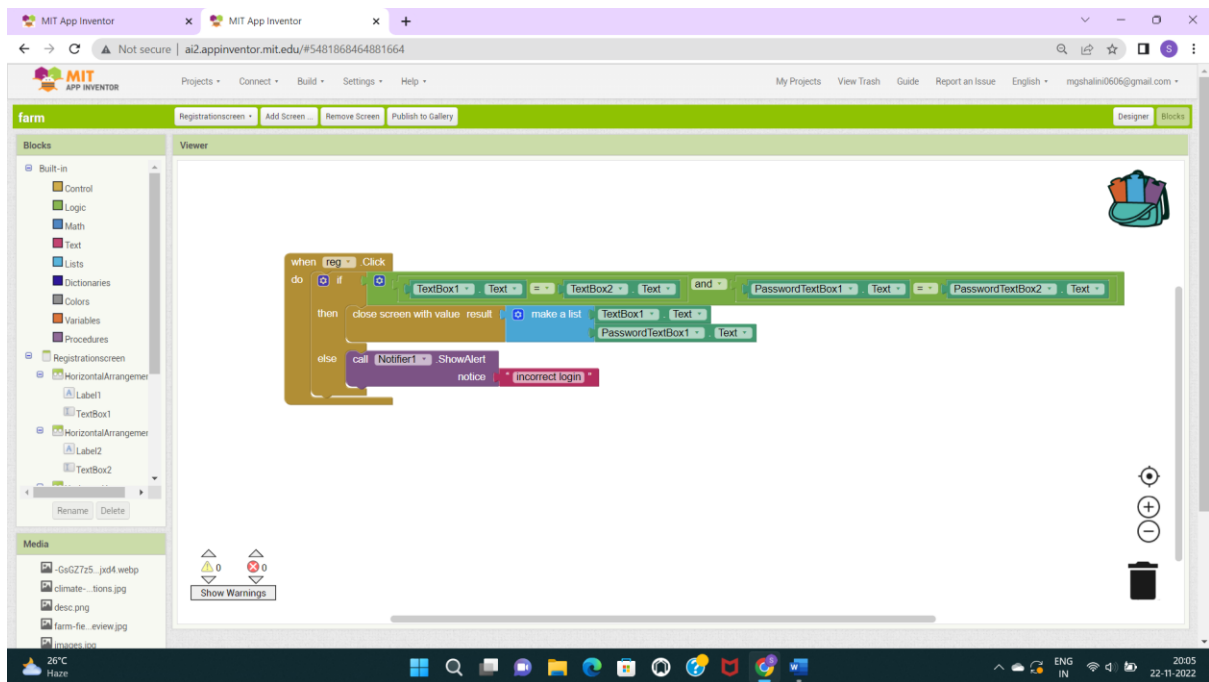
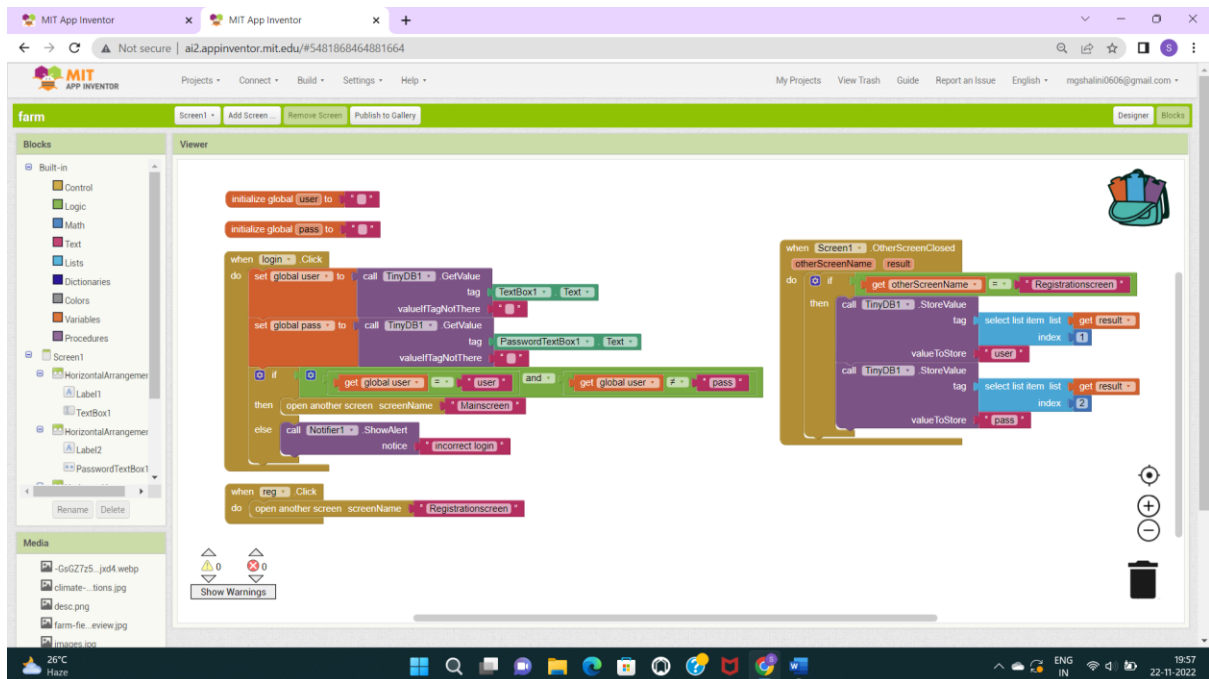
6. Fencing contains light on and off buttons and display the message when motion is detected

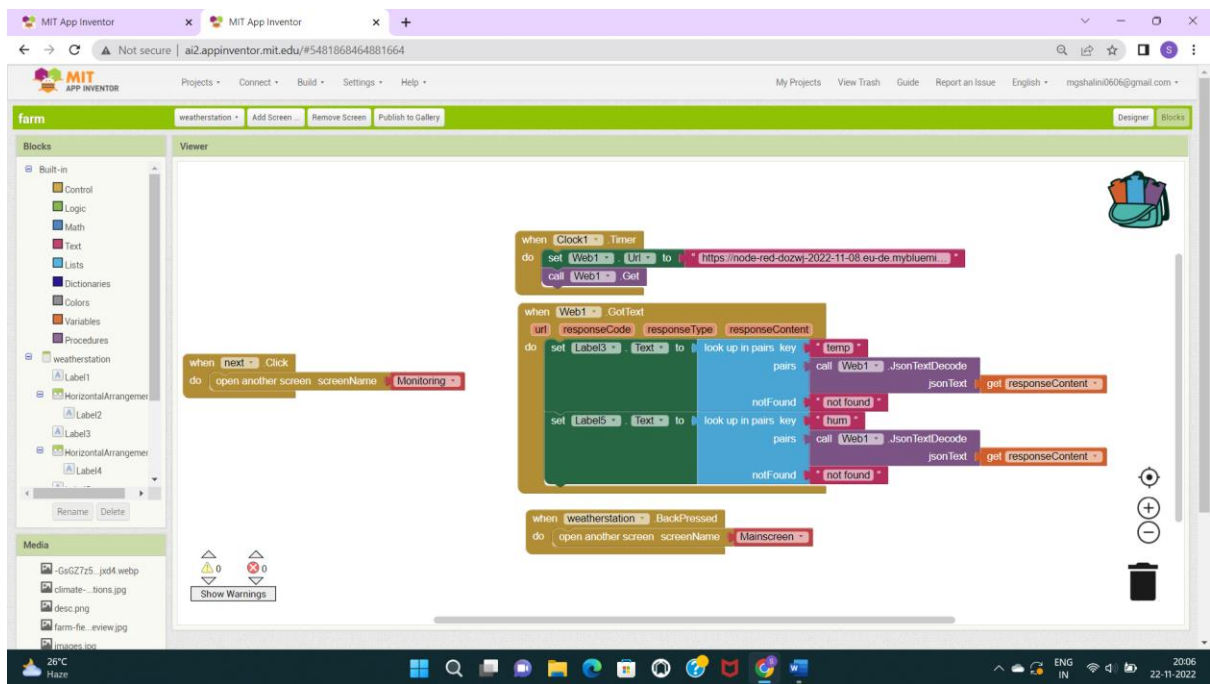
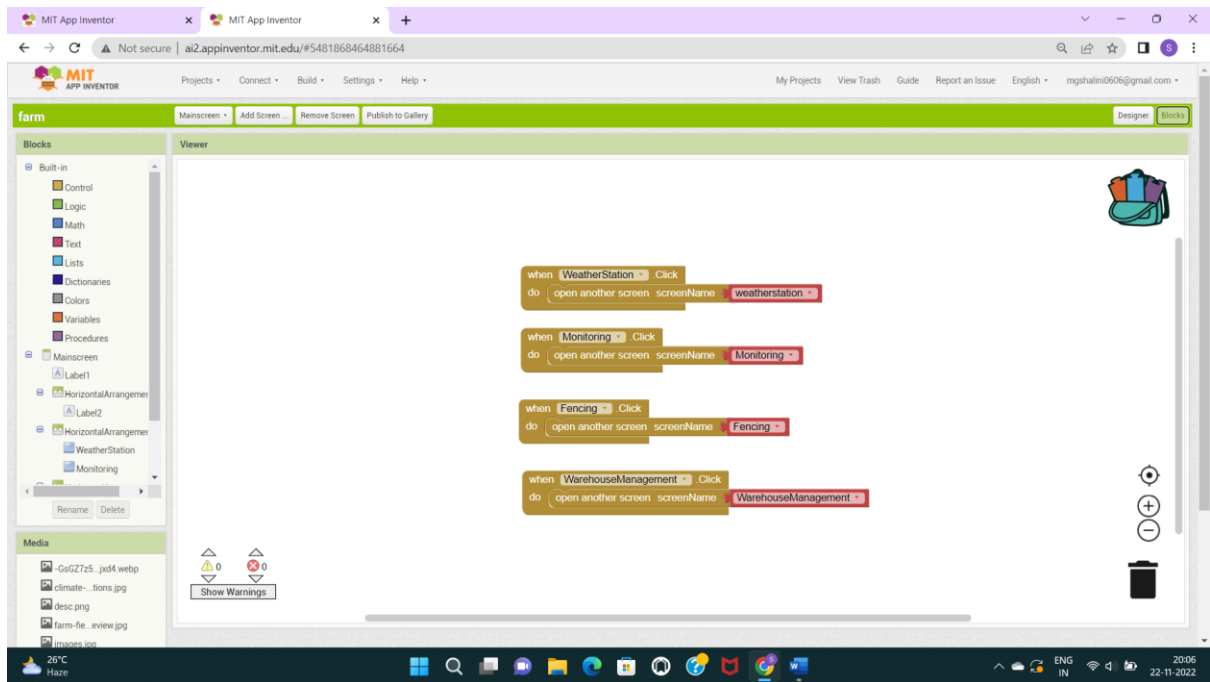


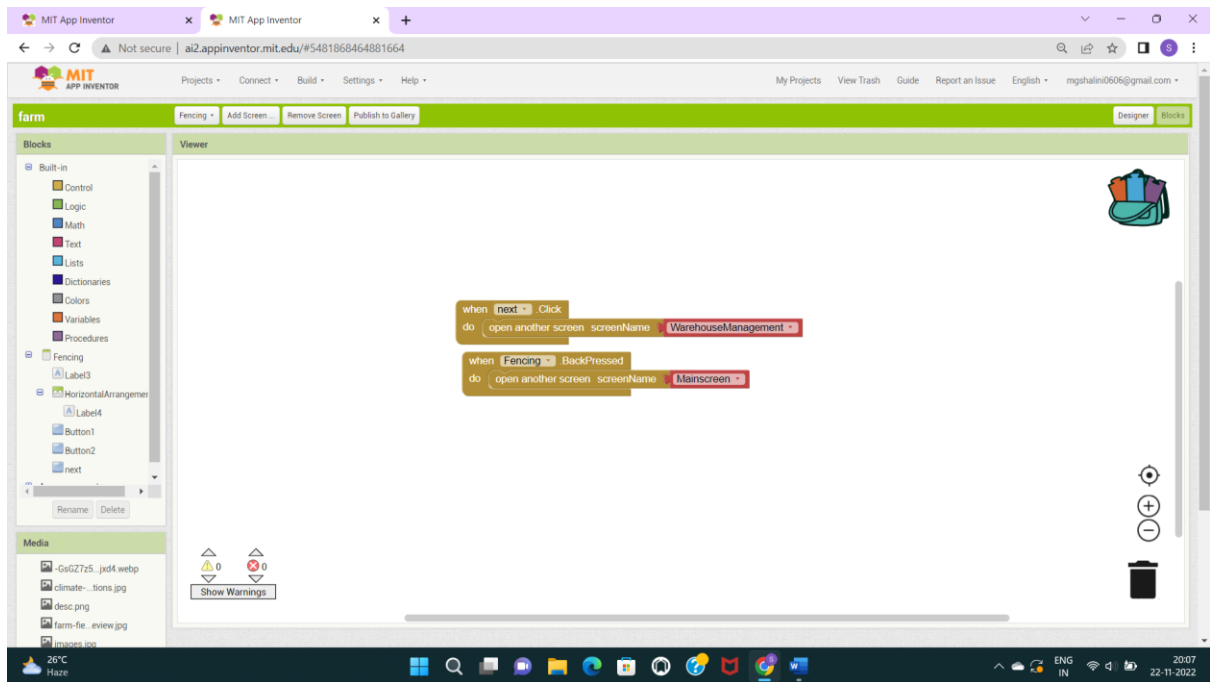
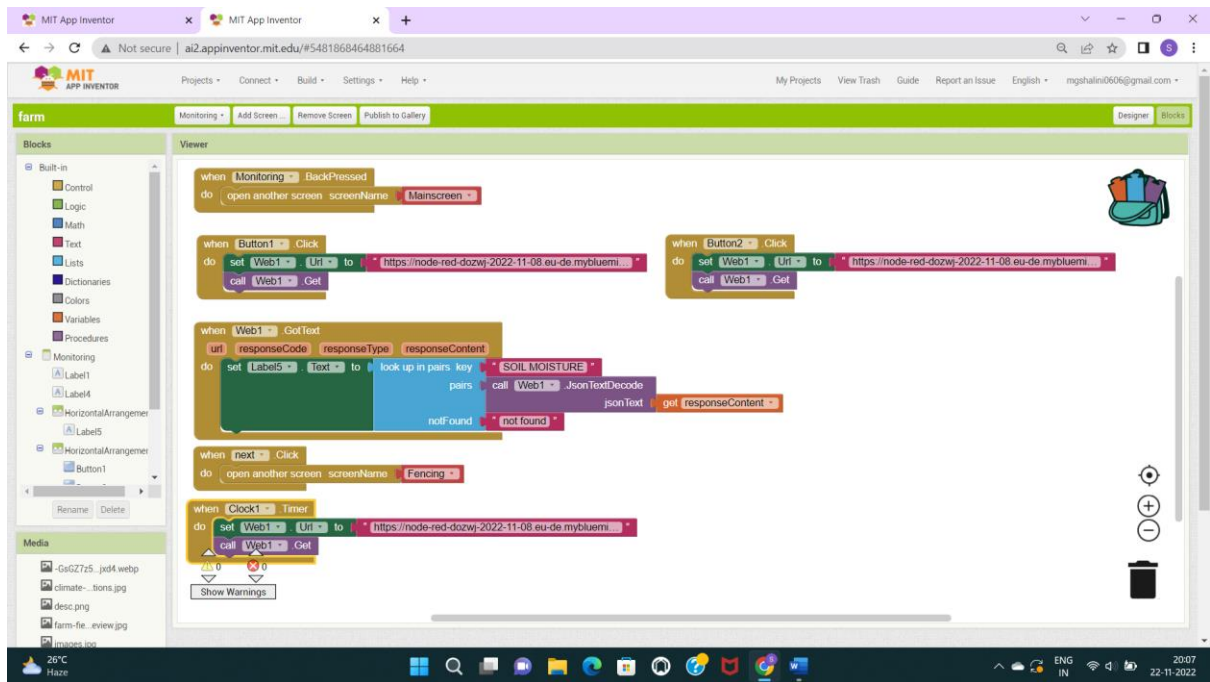
7. Warehouse Management stores the database of Crop type , Crop condition and current & expiry date of crop

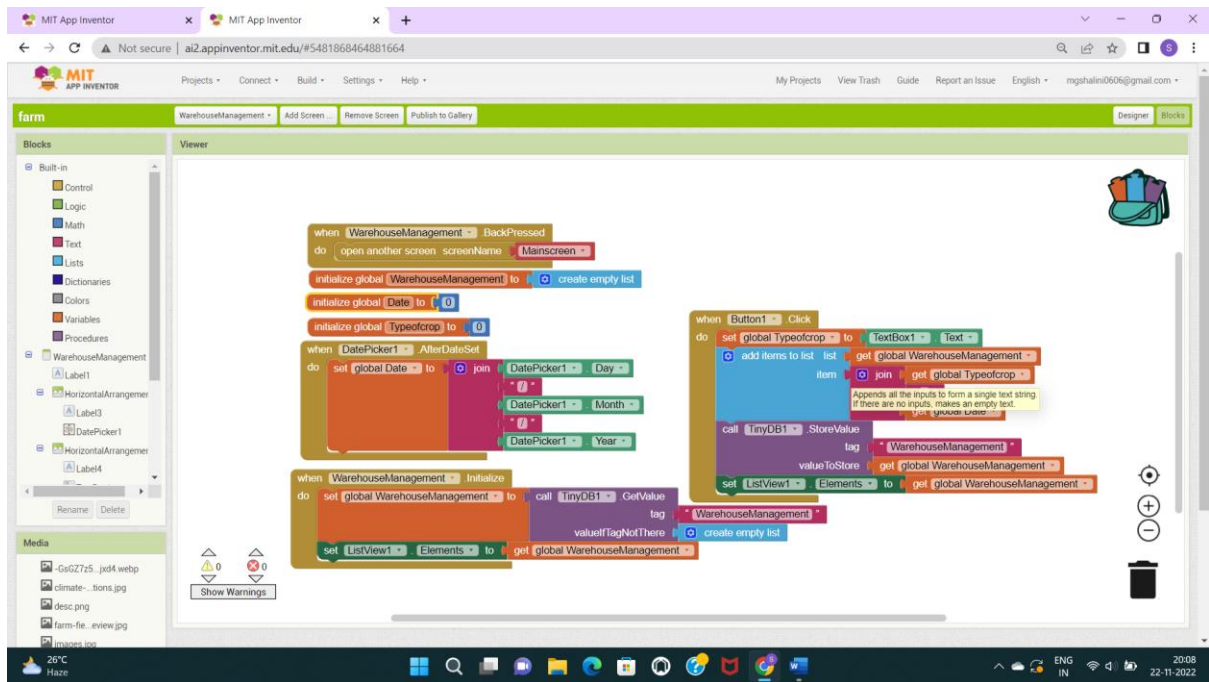


Back End:









MOBILE VIEW:





8:15

Vol) 4G LTE1 52%

Registrationscreen

Username Hint for TextBox1

Confirm Username Hint for TextBox2

Password

Confirm Password

Register



About Smart Farming

- 1) Now user can monitor about weather condition like (humidity, Temperature).
- 2) In smart farming, user can monitor about soil irrigation condition and handle the motor usage.
- 3) In fencing, farmer is indicated by message of invaded like (animals, human).
- 4) warehouse, farmer can monitor about expire date of fertilizer and storing details.

*Weather Station**Field Monitoring**Fencing**Warehouse Management*

3:42 PM



weatherstation

WeatherStation

Temperature

24

Humidity

97



11:55 AM



Monitoring

Field Monitoring

SOIL MOISTURE:

36

MOTOR ON

MOTOR OFF



8:19

VoD LTE1 57%

Fencing

FENCING

Distance: 31

LIGHT ON

LIGHT OFF

next



8:25 57%

WarehouseManagement

WAREHOUSE MANAGEMENT

Current Date: Choose Date

Expire Date: Choose Date

Type of crop: maize

Crop Condition: Good

Save

barley-30/11/2022

wheat-19/11/2022

maize-1/5/2023

