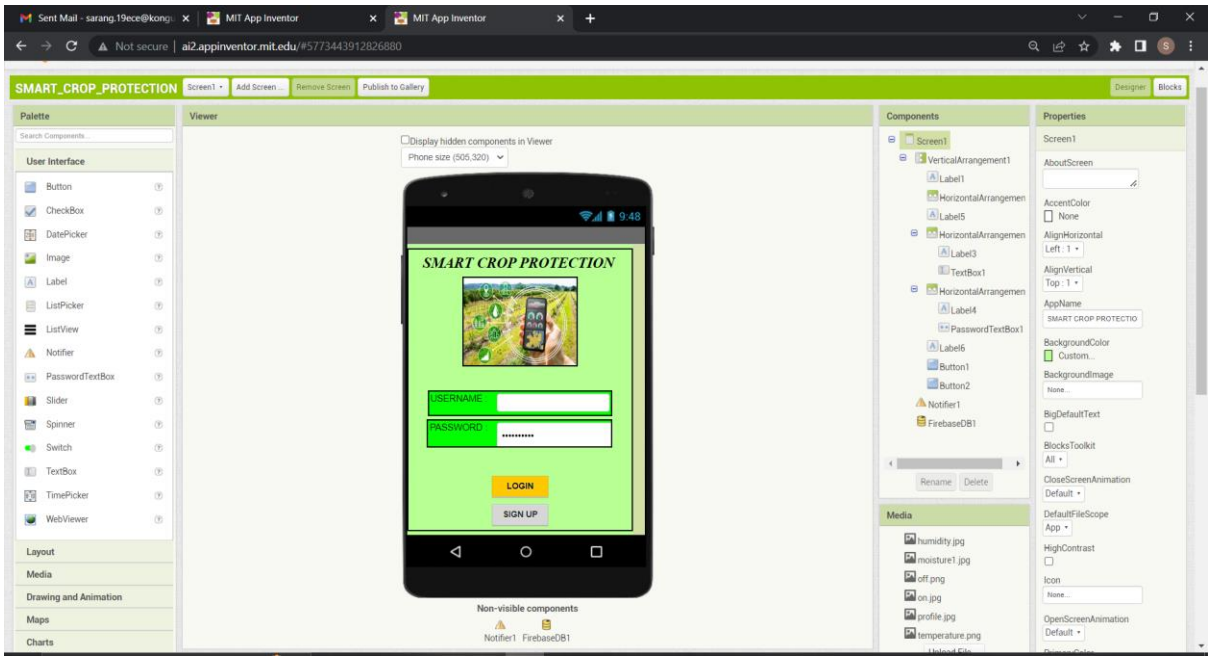
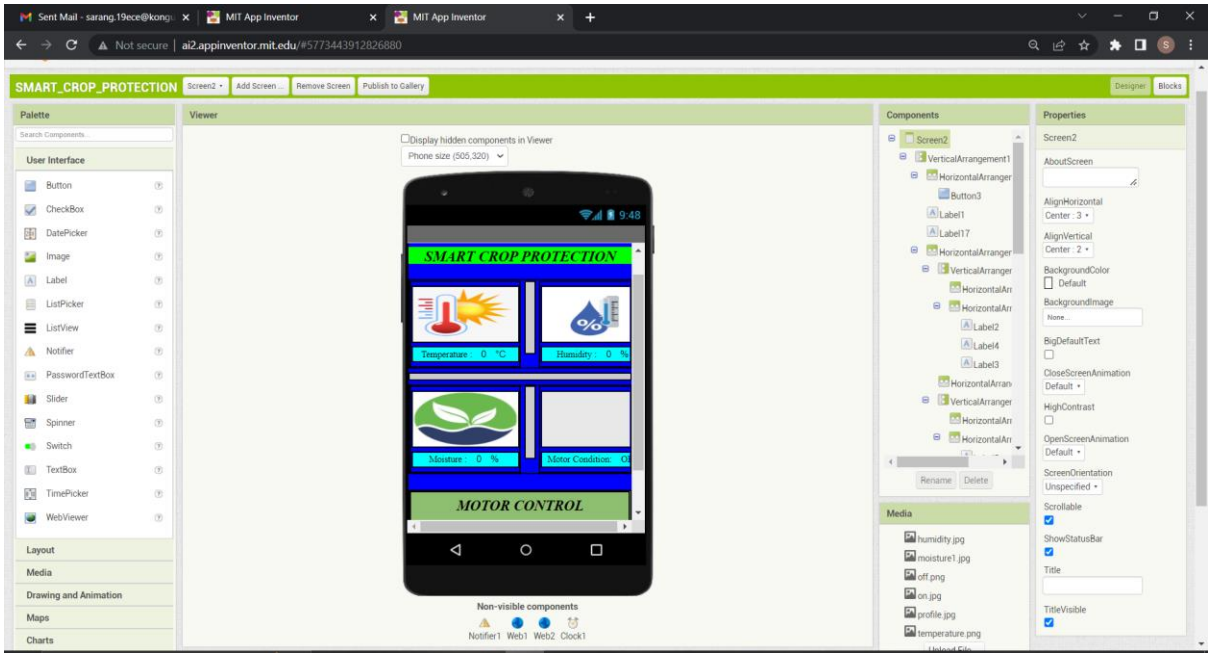
Date	12 November 2022
Team ID	PNT2022TMID04692
Project Name	IoT Based Smart Crop Protection System for Agriculture

SPRINT 3

MIT APP:

We have created the app for farmers in this they can able to sign in and the login with the user name and password. After login it shows the temperature sensor value, moisture sensor value, humidity value and can also able to control the motor.





PYTHON CODE:

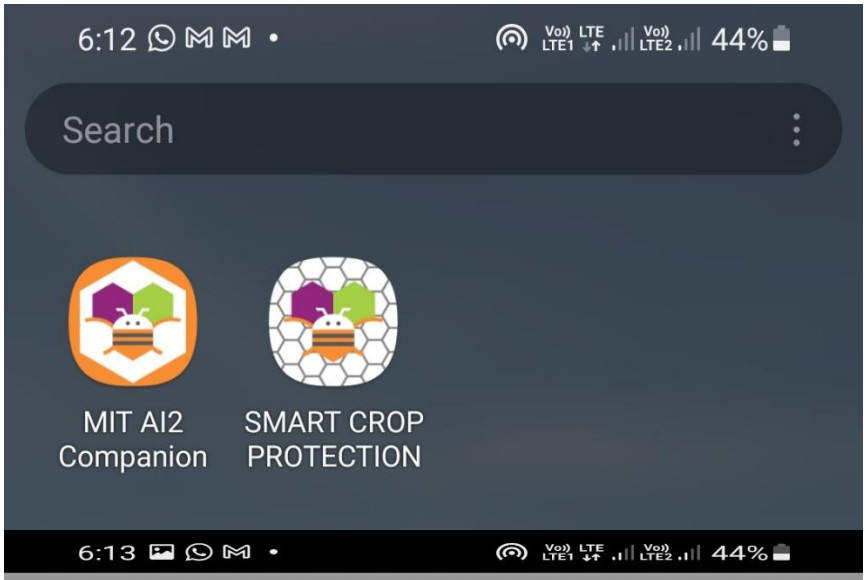
By using the python code we have connect the Application with web and IOT platform.

```
from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator
import playsound

authenticator = IAMAuthenticator('xP-FJmnJUbVYZG3C_zFINVfxmPNkQ1jtonPcbnb')
text_to_speech = TextToSpeechV1 (
    authenticator=authenticator
)
text_to_speech.set_service_url('https://api.eu-gb.text-to-speech.watson.c')

with open('alert.mp3', 'wb') as audio_file:
    audio_file.write(
```

```
        text_to_speech.synthesize(
            'Alert! Alert! Animal Detected.', voice='en-US_AllisonV3Voice',
            accept = 'audio/mp3'
            ).get_result().content)
playsound.playsound('alert.mp3')
```

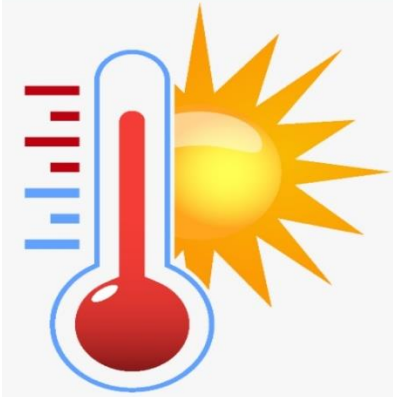

6:12
44%
Search
MIT AI2
Companion
SMART CROP
PROTECTION
6:13
44%


SMART CROP PROTECTION
USERNAME :
PASSWORD :
LOGIN
SIGN UP

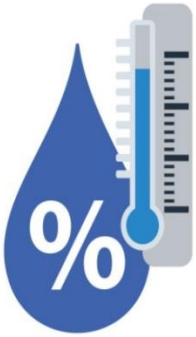
6:13 44%

LOGOUT

SMART CROP PROTECTION



Temperature : 10 °C



Humidity : 28 %

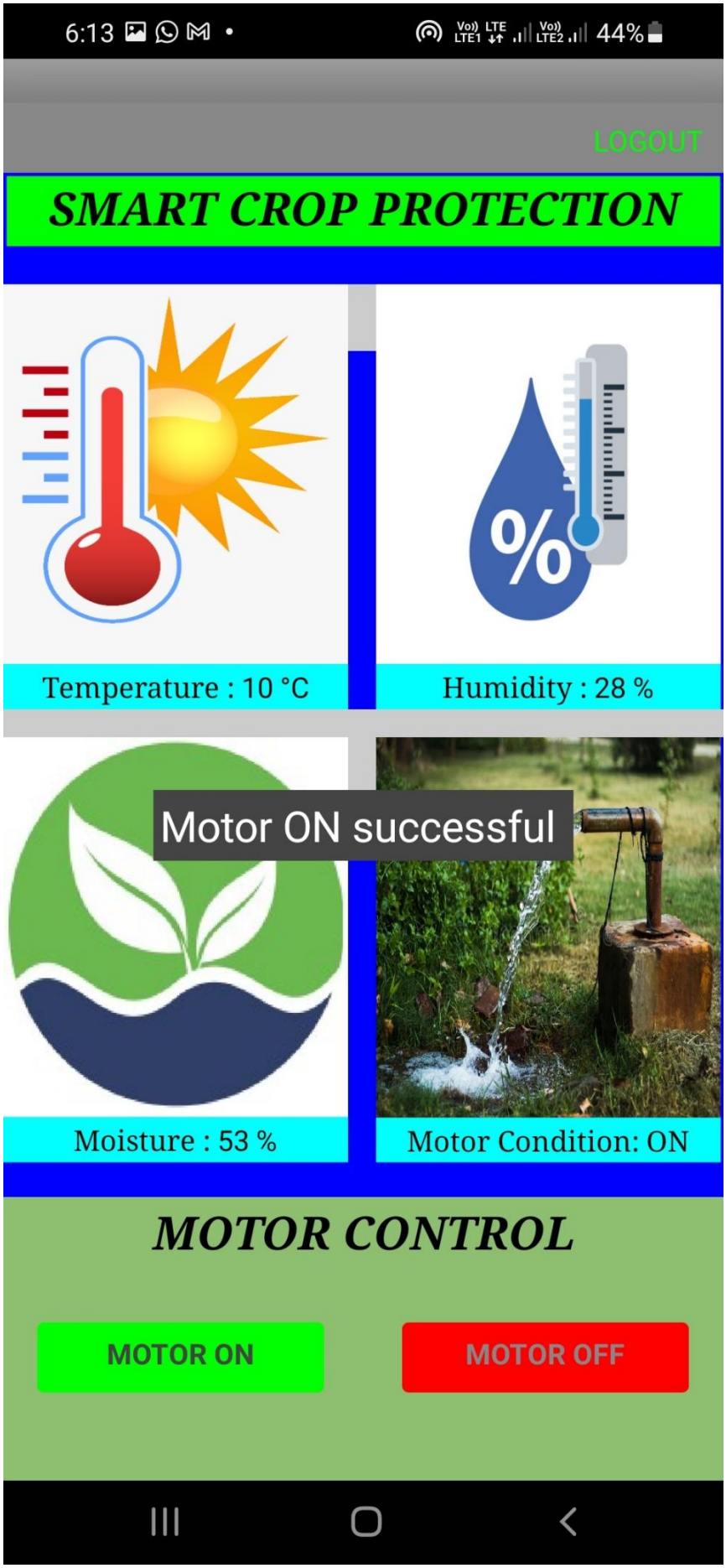
Moisture : 53 %

Motor Condition: OFF

MOTOR CONTROL

MOTOR ON

MOTOR OFF


6:13
44%
LOGOUT
SMART CROP PROTECTION
Temperature : 10 °C
Humidity : 28 %
Motor ON successful
Moisture : 53 %
Motor Condition: ON
MOTOR CONTROL
MOTOR ON
MOTOR OFF


6:13
44%
LOGOUT
SMART CROP PROTECTION
Temperature : 10 °C
Humidity : 28 %
Motor OFF successful
Moisture : 53 %
Motor Condition: OFF
MOTOR CONTROL
MOTOR ON
MOTOR OFF