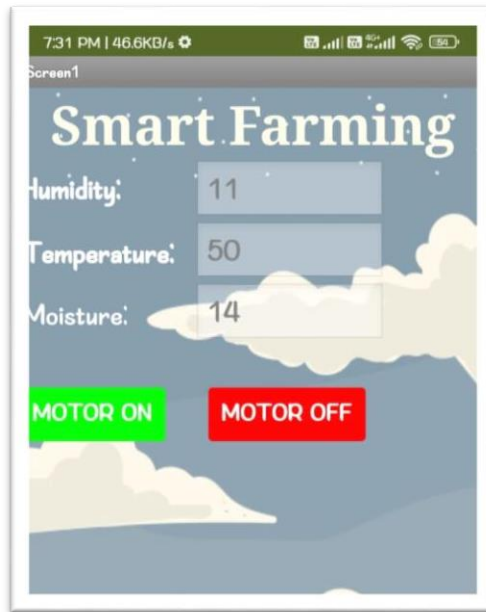
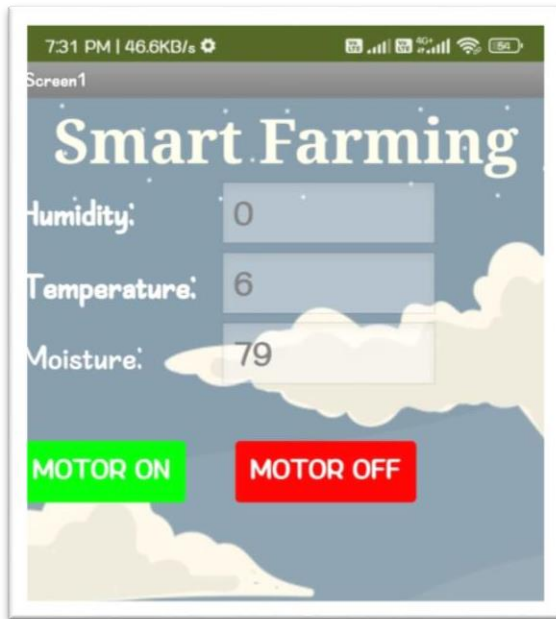
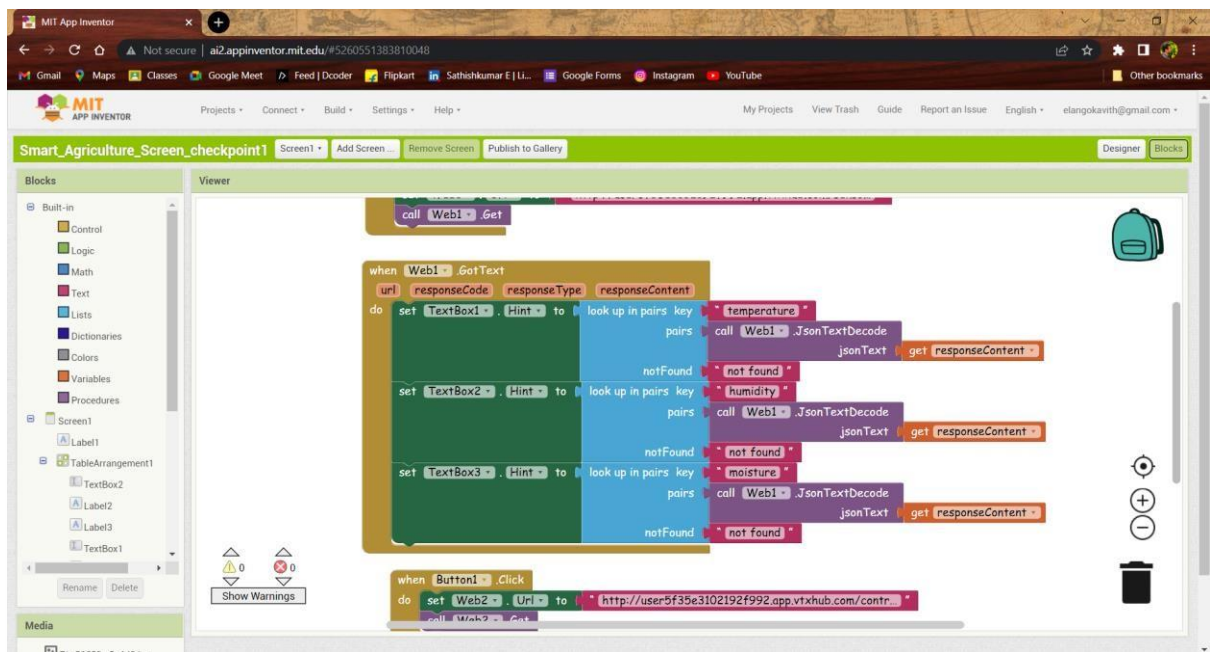
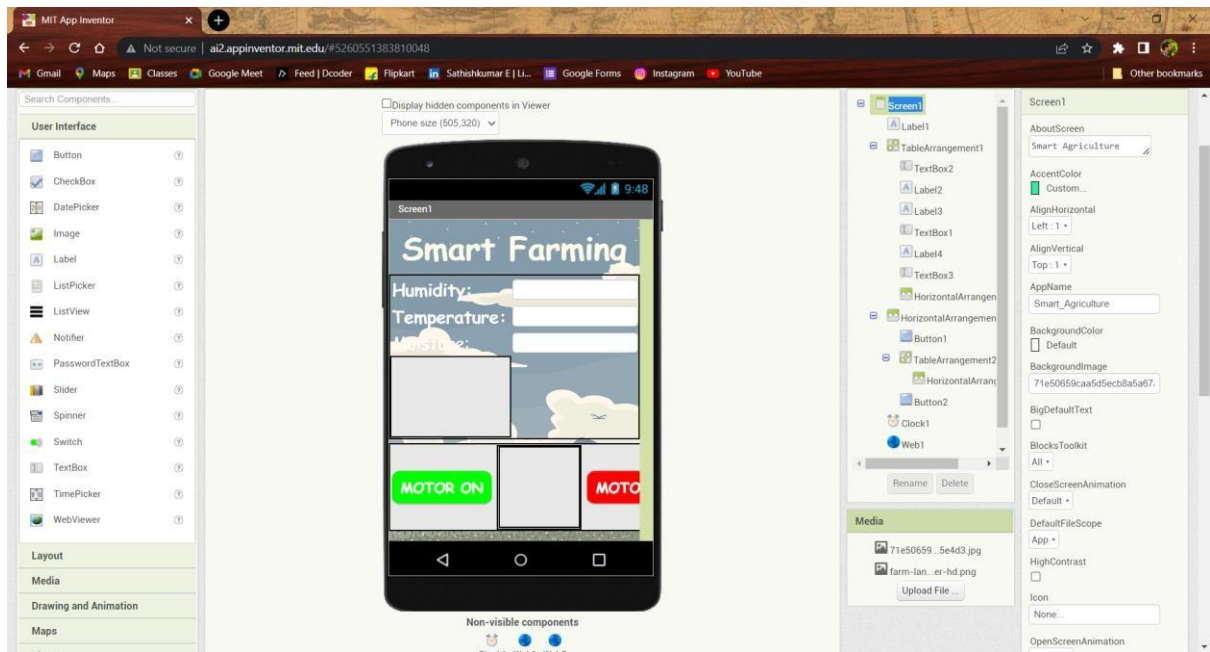


# Sprint I Report

Date	4 November 2022
Team ID	PNT2022TMID22889
Project Name	SmartFarmer – IoT Enabled Smart Farming Application

## MOBILE APPLICATION





# PYTHON CODE:

```
srccode.py - C:\Users\Sathish\Desktop\IBM\srccode.py (3.9.6)
File Edit Format Run Options Window Help

import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "mlldg0",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678907654321"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IOT platform: %s" % cmd.data['command'])
    m=cmd.data['command']
    if (m=="motoron"):
        print("Motor is switched on")
    elif (m=="motoroff"):
        print("Motor is switched off")
    print(" ")

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    moist=random.randint(0,100)
    myData={'Temperature':temp, 'Humidity':hum, 'Moisture':moist }
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s" % myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

```
"IDLE Shell 3.9.6"
File Edit Shell Debug Options Window Help

Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Sathish\Desktop\IBM\srccode.py =====
2022-11-03 19:31:49.959 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:mlldg0:NodeMCU:12345
Published data Successfully: %s {'Temperature': 6, 'Humidity': 0, 'Moisture': 79}
Published data Successfully: %s {'Temperature': 50, 'Humidity': 11, 'Moisture': 14}
Published data Successfully: %s {'Temperature': 74, 'Humidity': 90, 'Moisture': 73}
Published data Successfully: %s {'Temperature': 12, 'Humidity': 19, 'Moisture': 49}
Published data Successfully: %s {'Temperature': 50, 'Humidity': 56, 'Moisture': 23}
Published data Successfully: %s {'Temperature': 78, 'Humidity': 50, 'Moisture': 81}
Published data Successfully: %s {'Temperature': 113, 'Humidity': 31, 'Moisture': 73}
Published data Successfully: %s {'Temperature': 72, 'Humidity': 77, 'Moisture': 31}
Message received from IBM IOT platform: motoron
Motor is switched on

Published data Successfully: %s {'Temperature': 19, 'Humidity': 59, 'Moisture': 34}
Message received from IBM IOT platform: motoroff
Motor is switched off

Published data Successfully: %s {'Temperature': 83, 'Humidity': 90, 'Moisture': 51}
Published data Successfully: %s {'Temperature': 13, 'Humidity': 12, 'Moisture': 24}
Published data Successfully: %s {'Temperature': 114, 'Humidity': 7, 'Moisture': 79}
Published data Successfully: %s {'Temperature': 112, 'Humidity': 61, 'Moisture': 76}
|
```