

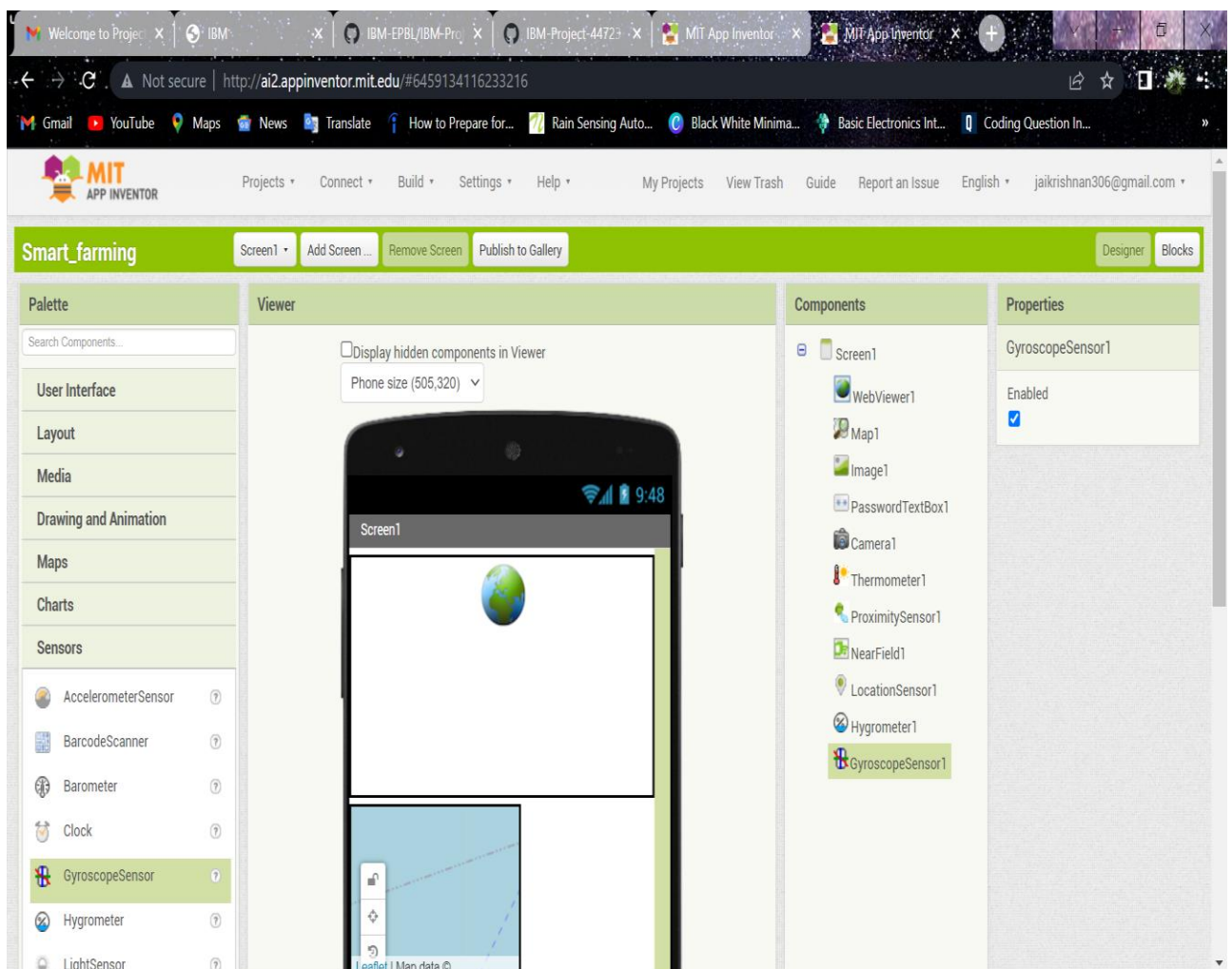
# Project Development Phase

## Sprint 2

Date	12.11.2022
Team ID	PNT2022TMID17614
Project Title	Project - Smart Farmer - IoT Enabled Smart Farming Application
Marks	8 Marks

### Connecting Hardware and API Integration:

An application programming interface (API) is a messenger that processes request and ensures seamless functioning of enterprise systems. API enables interaction between data, applications, and devices. It delivers data and facilitates connectivity between devices and programs.



## Application Code:

```
ibm-code.py - C:\Users\003K9Y744\Desktop\ibm-code.py (3.9.6)
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#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "gdqrpu",
        "typeId": "MyDeviceType",
        "deviceId": "12345"
    },
    "auth": {
        "token": "bDlt!*P*D8IF8VvQJS"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
    if(m=="lighton"):
        print("*****//LIGHTS ARE ON/////*****")
    elif(m=="lightoff"):
        print("*****//LIGHTS ARE OFF/////*****")
    else:
        print("*****//WRONG Command/////*****")

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

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()

Ln: 25 Col: 29
```