Project Development Phase
Sprint – 3

Date	15 November 2022
Team ID	PNT2022TMID11546
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	2 marks

Task:

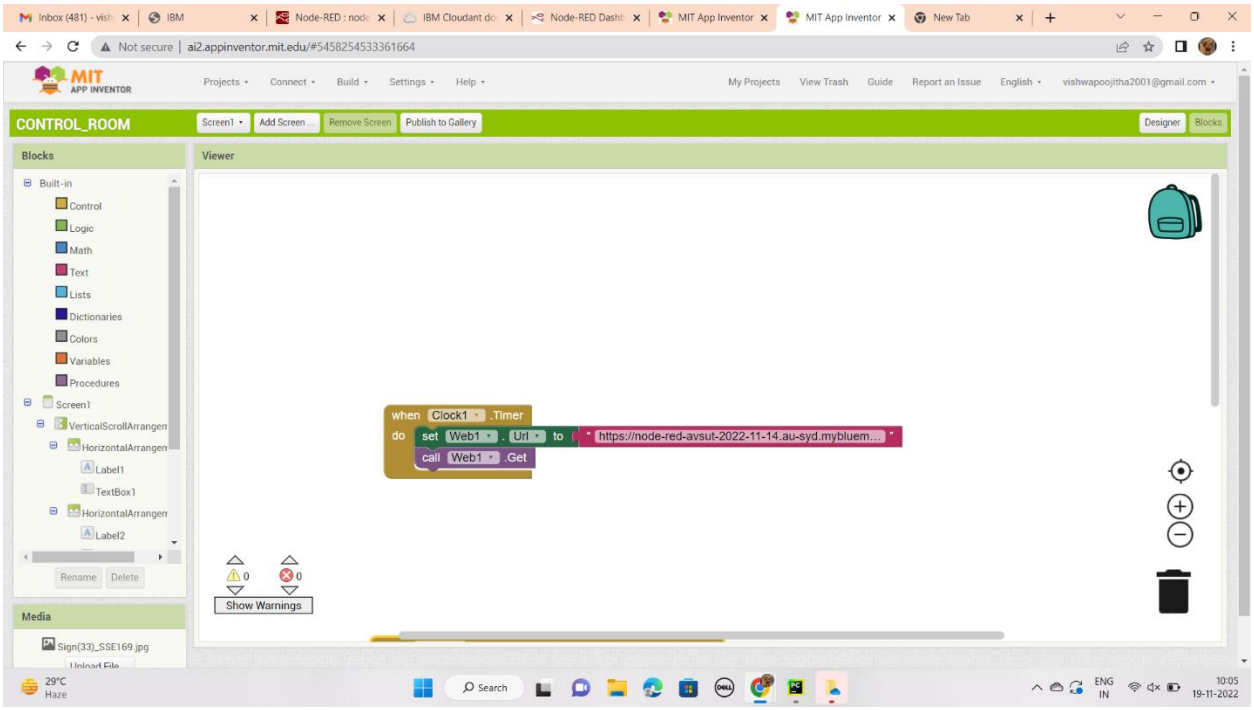
A model of the mobile application used to monitor temperature in a hazardous environment.

Screens Information:

1. **Screen – 1:** It is the entry screen of the mobile application and will be displayed only for 2000 milli-seconds.
2. **Screen – 2:** A text box is added to receive the information sent by sensors.

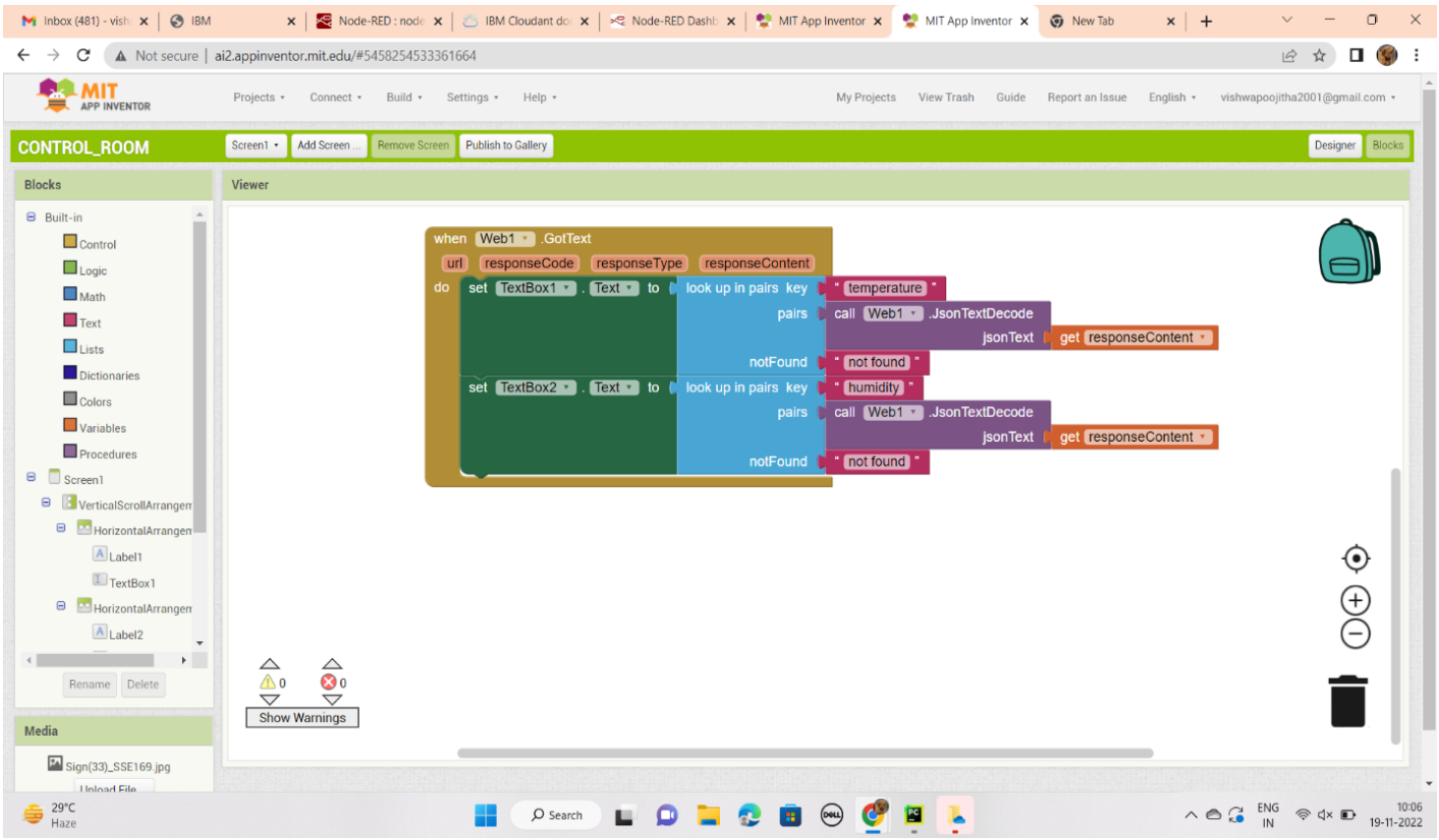
Screen 1:

Designer & Blocks



Screen 2:

Designer & Blocks



Source code:

```
import wiotp.sdk.device
import time
import random
myConfig = {
"identity": {
"orgId": "sc7zij",
"typeId": "NodeMCU",
"deviceId":"12345"
},
"auth": {
"token": "12345678"
```

```
}
}
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" %cmd.data['command'])
    m=cmd.data['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={'d':{'temperature':temp, 'humidity':hum}}
    client.publishEvent(eventId="Data", msgFormat="json", data=myData,
qos=0,onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

MIT app inventor project link