Project Development Phase Sprint – 4

| Team ID | PNT2022TMID52802 |
|--------------|---|
| Project Name | Hazardous Area Monitoring for Industrial Plant powered by IoT |

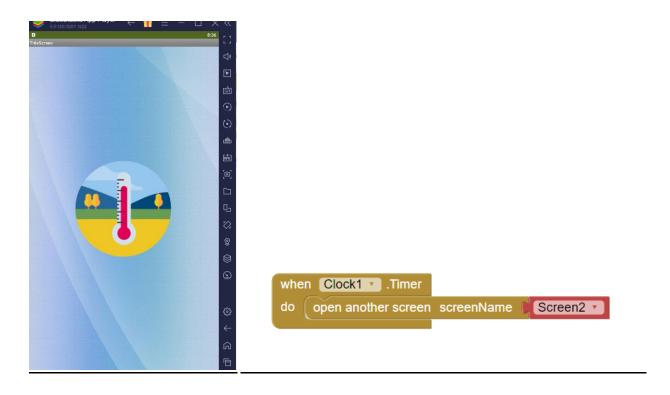
Task:

A mobile application for monitoring the Environment parameters around the region of an industry has been developed using MIT App Inventor.

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:** It is the login page of the application. Each user has their own user id and password, which is known only to them. After validating the credential, the user can access the data captured by the placed device.
- 3. **Screen 3:** Environmental parameters in the area of the industry like temperature is obtained via sensors and is sent to the mobile device.

Screen 1:
Designer & Blocks



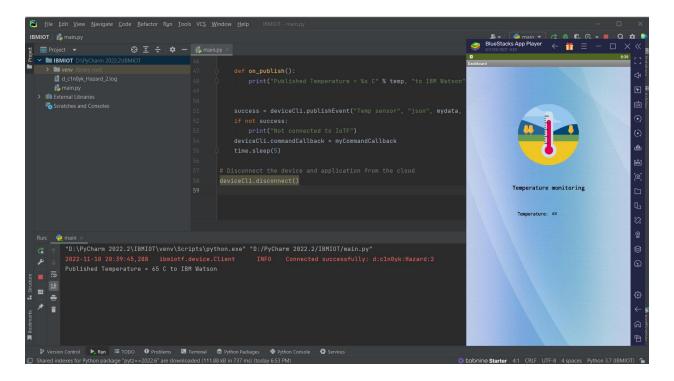
Screen 2:
Designer & Blocks



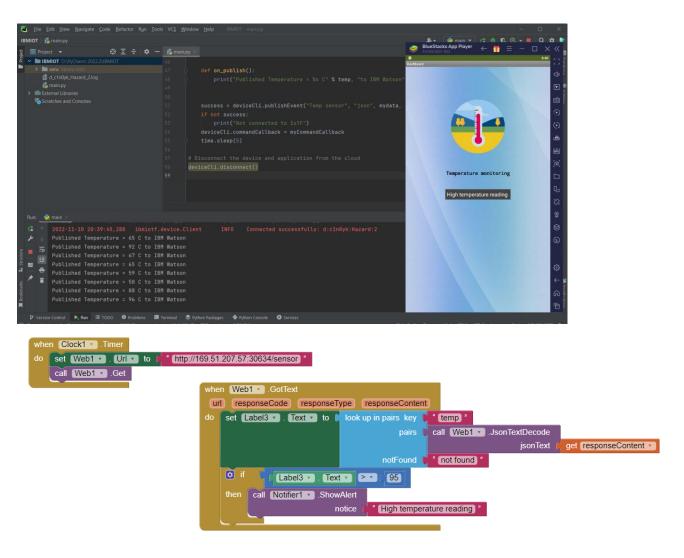
Screen 3:

Designer & Blocks

Case 1 (When the temperature is within limit):



Case 2 (When temperature exceeds normal (95 C) value):



Source code:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

# Provide your IBM Watson Device Credentials
organization = "c1n0yk"
deviceType = "Hazard"
```

```
deviceId = "2"
def myCommandCallback(cmd):
    success = deviceCli.publishEvent("Temp sensor", "json", mydata, gos=0,
```