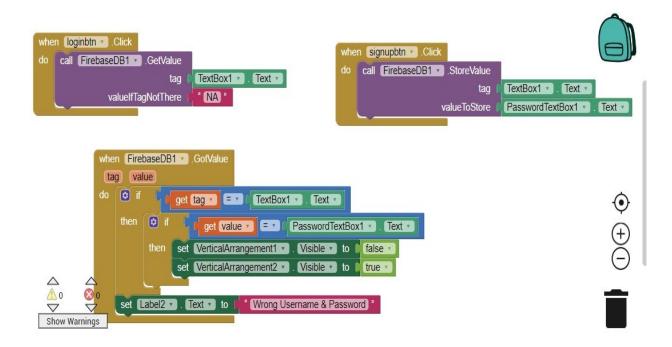
CODE AND SOLLUTION

TEAM ID: PNT2022TMID38406

CODE BLOCK FOR FRONTEND IN MIT APP INVENTOR





```
when Button1
                .Click
    call Map1 .PanTo
                 latitude
                          LocationSensor1 *
                                              Latitude *
               longitude
                          LocationSensor1 •
                                             Longitude
                          25
                  zoom
when LocationSensor1 .LocationChanged
          longitude
                     altitude
 latitude
                              speed
                                get (latitude *
    set Label1
                   Text v to
    set Label2 *
                   Text to
                                get longitude *
```

CODE FOR GEO-FENCING AND LOCATION TRACKING

```
loc.py - C:\Users\MALA\Desktop\loc.py (3.8.7)
File Edit Format Run Options Window Help
import time
import wiotp.sdk.application
from shapely.geometry import Polygon, Point
home coordinates = [
     (12.509764, 80.189529),
     (12.512819, 80.159570),
(12.504451, 80.152143),
(12.502639, 80.187329),
(12.509764, 80.189529),
home= Polygon (home coordinates)
myConfig = {
     "identity" : {
    "orgId" : "68jcjt",
    "typeId": "Wokwi",
          "deviceId": "012345",
     "auth": {
          "token": "Sandhya_09"
     }
client = wiotp.sdk.device.DeviceClient(config = myConfig, logHandlers = None)
client.connect()
while True:
name = "Child"
     #in area location
     latitude = [12.9589532,12.345334,12.055556,13.2229]
     longitude = [80.1319989,80.87997,81.08997,81.78979]
     #out area location
     #latitude = 17.4219272
#longitude = 78.5488783
     for i in range(len(latitude)):
          myData = {"name":name, "lat":latitude[i], "lon": longitude[i]}
          relient.publishEvent(eventId = "status", msgFormat = "json", data = myData, qos = 0, onPublish =None)
print("Data published to IBM IoT Platform: ", myData)
          loc = Point(latitude[i],longitude[i])
          home.contains(loc)
          time.sleep(1)
client.disconnect()
```

