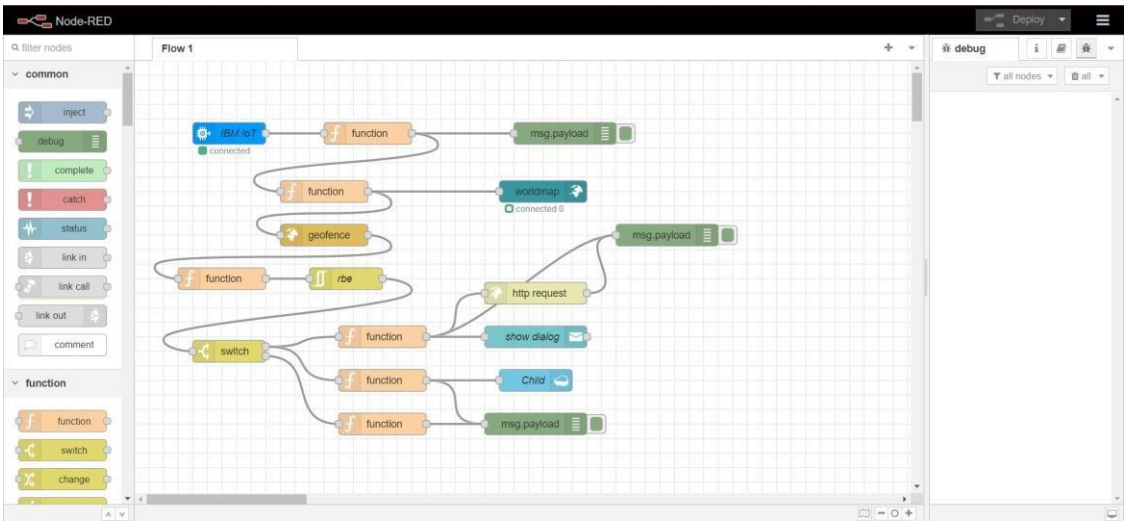
Develop The Web Application Using Node-RED

IoT Based Safety Gadget for Child Safety Monitoring and Notification

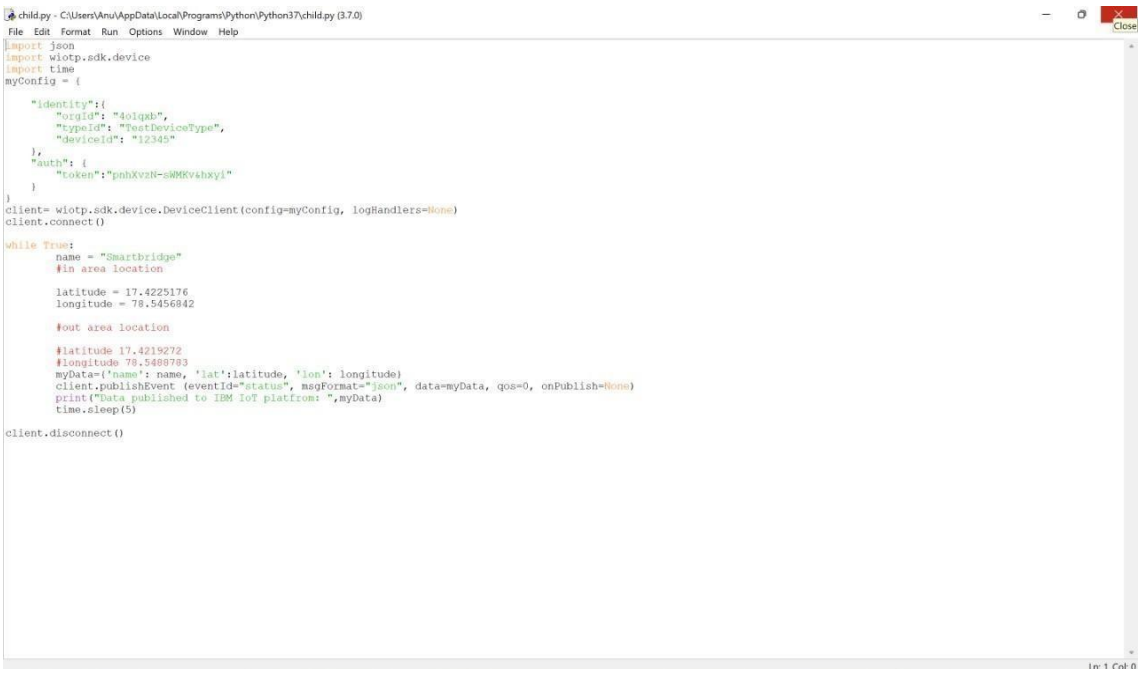
Aim: Develop the web application using Node-RED

Steps Followed:

- Opened a Node-RED project

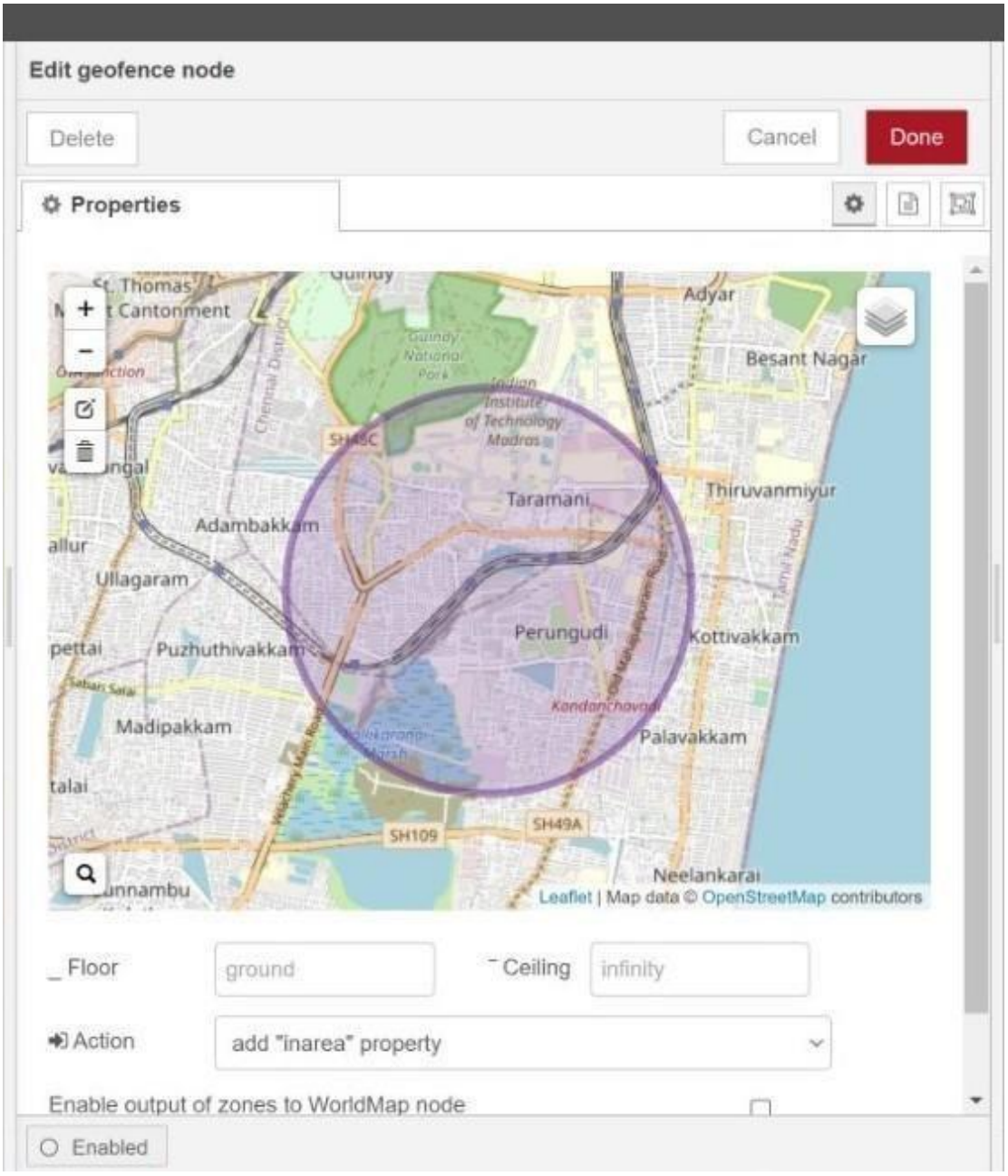


- Added code to get child location in python



```
child.py - C:\Users\Anu\AppData\Local\Programs\Python\Python37\child.py (3.7.0)
File  Edit  Format  Run  Options  Window  Help
import json
import wiotp.sdk.device
import time
myConfig = {

    "identity":{
        "orgId": "4o1qxb",
        "typeId": "TestDeviceType",
        "deviceId": "12345"
    },
    "auth": {
        "token":"pnhXvzN-sWMKv&hXyi"
    }
}
client= wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
        name = "Smartbridge"
        #in area location

        latitude = 17.4225176
        longitude = 78.5456842

        #out area location

        #latitude 17.4219272
        #longitude 78.5480783
        myData={'name': name, 'lat':latitude, 'lon': longitude}
        client.publishEvent (eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
        print("Data published to IBM IoT platfrom: ",myData)
        time.sleep(5)

client.disconnect()
```

- Created the GeoFence



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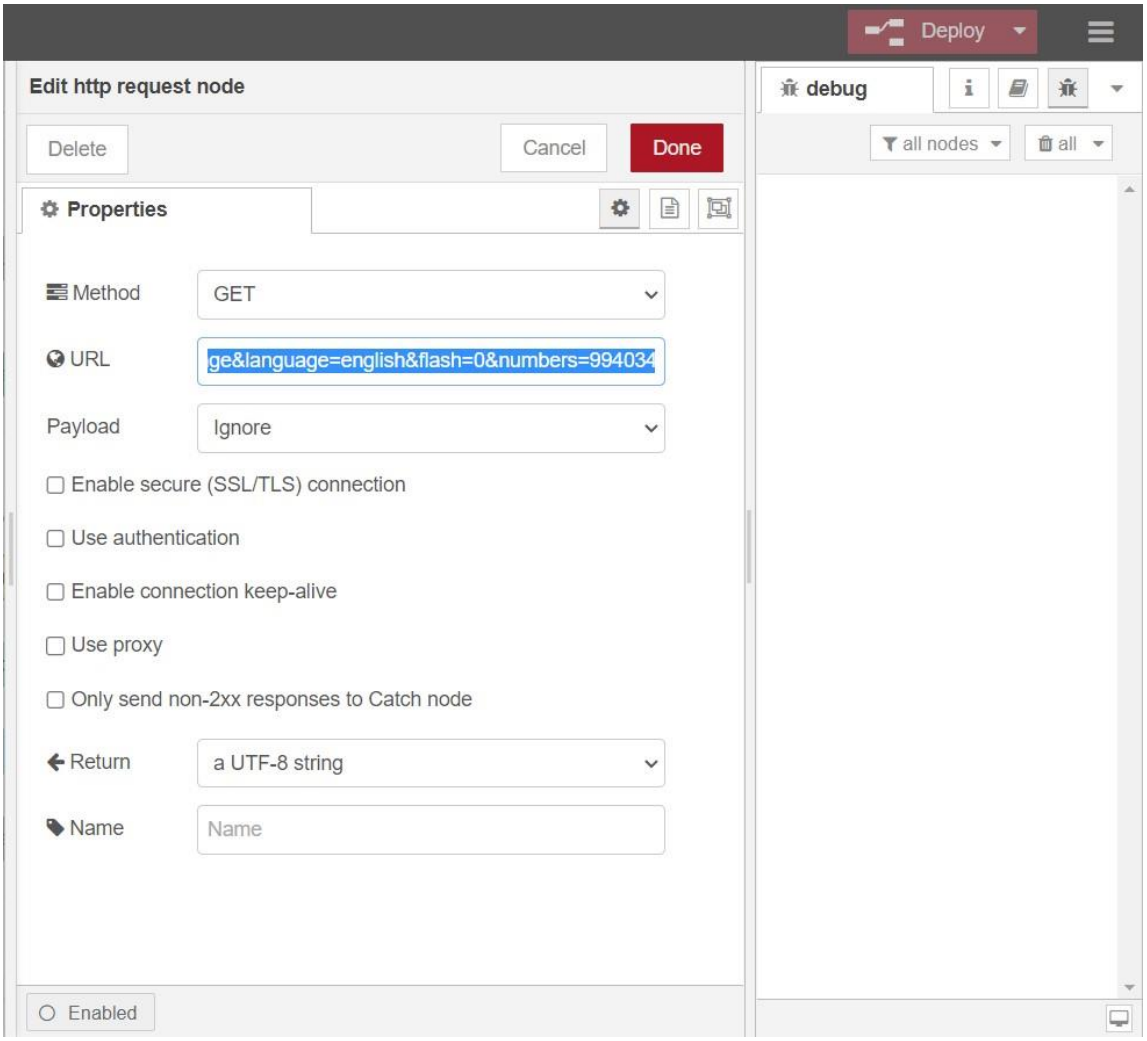
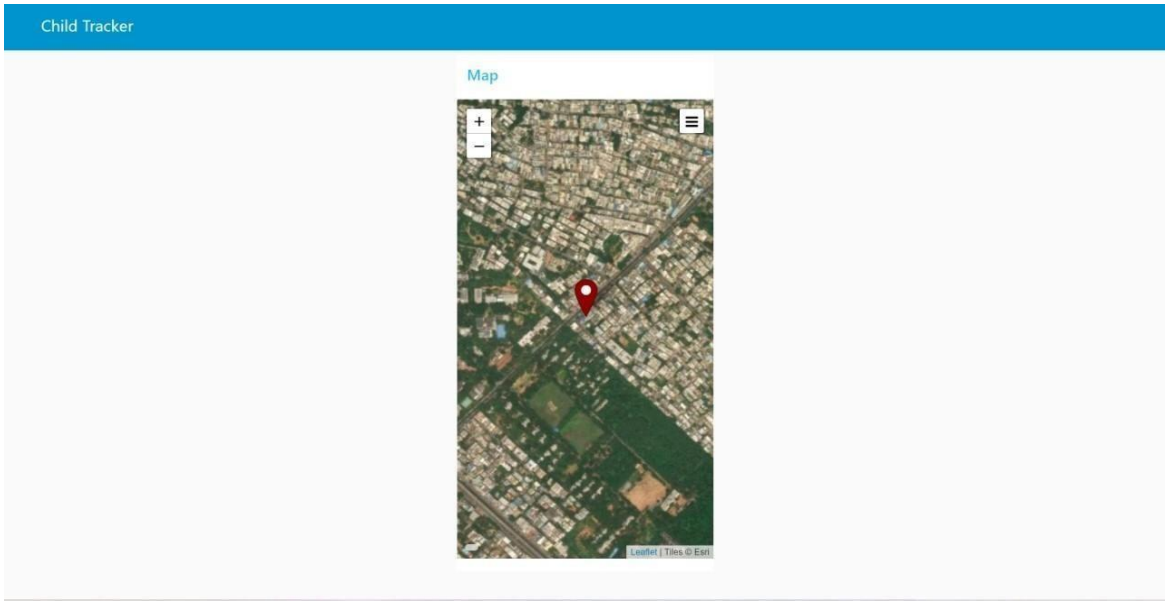
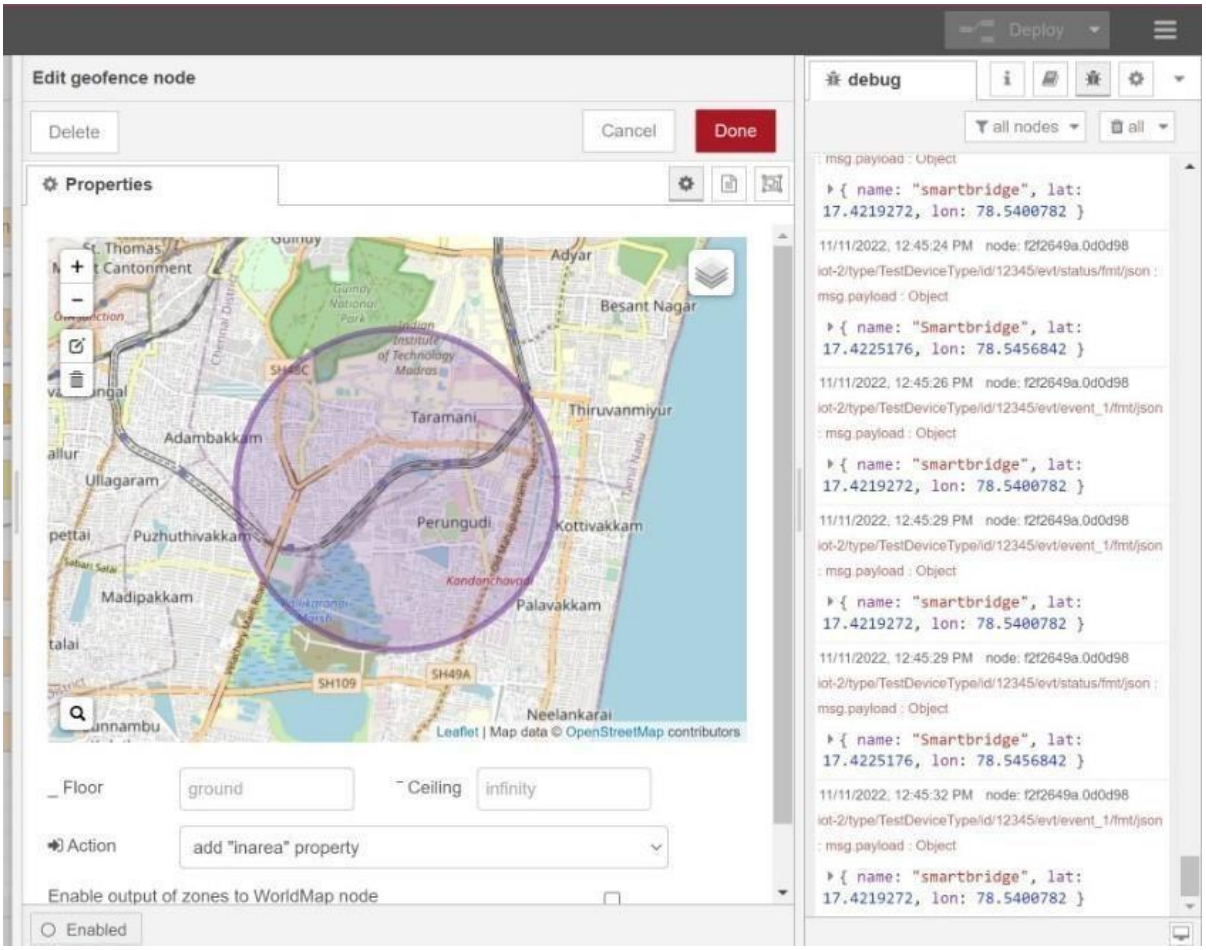
Editing the HTTP Request URL



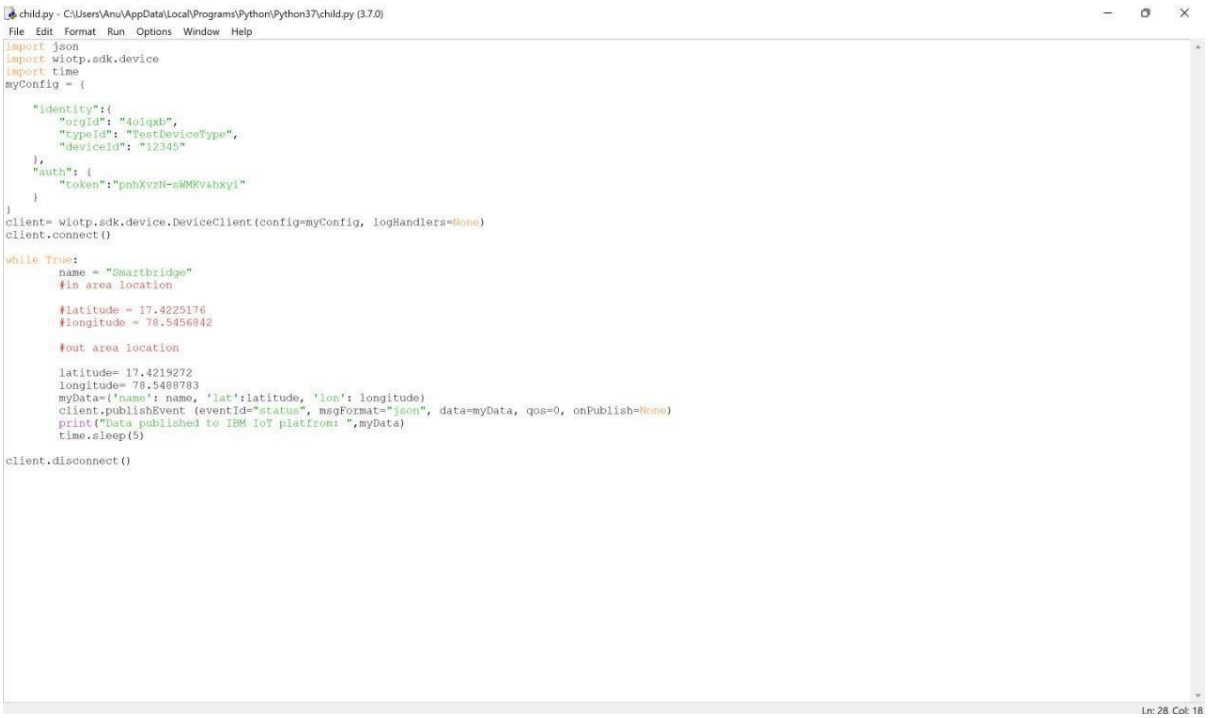
- Located the child



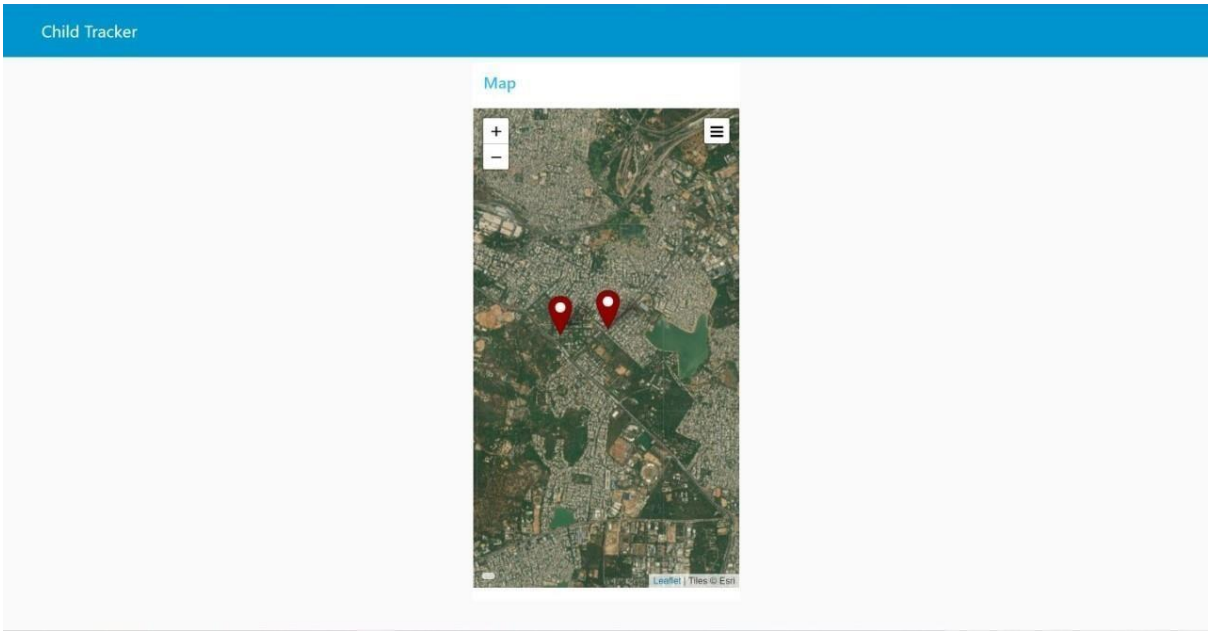
- Created the geofence node



- Python script sending requests to IBM Cloud



- After running the script, the web UI shows “Person is not in the particular area”



Result: Successfully developed the web application using Node-RED