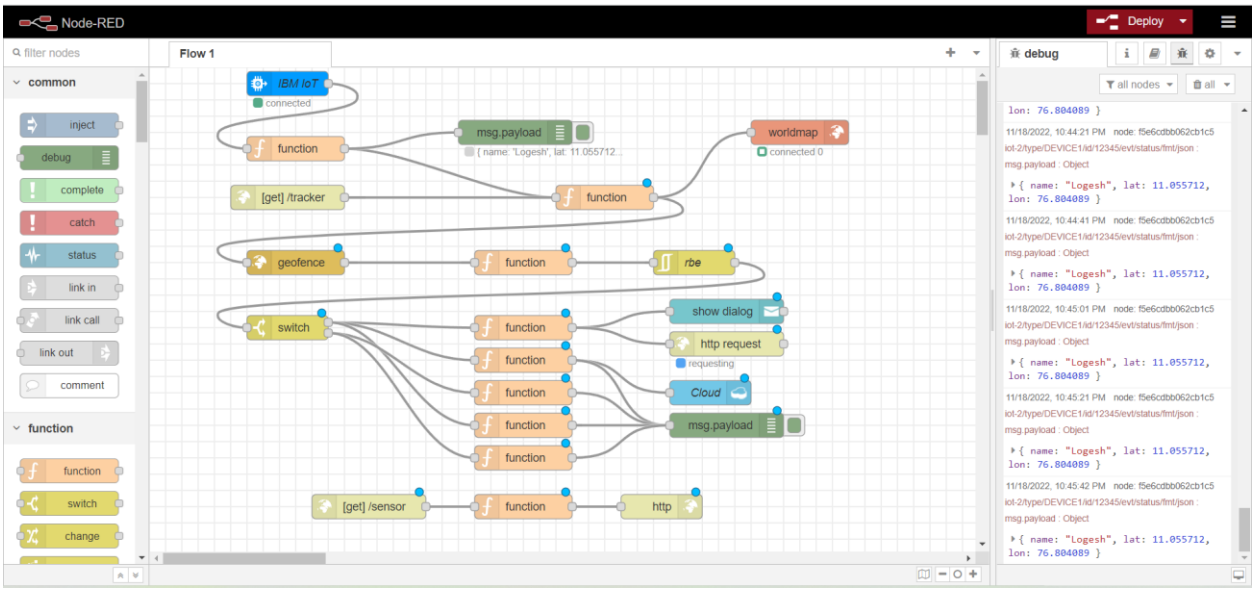
Develop The Web Application Using Node-RED

TEAM ID: PNT2022TMID22325

Aim: Develop the web application using Node-RED Steps Followed:

- Opened a Node-RED project.



- Added code to get child location in python

childtracker.py - D:\python\childtracker.py (3.7.0)

File Edit Format Run Options Window Help

```
import json
import wiotp.sdk.device
import time
import ibmiotf.application
import ibmiotf.device

myConfig = {
    "identity": {
        "orgId": "046bct",
        "typeId": "DEVICE1",
        "deviceId": "12345"
    },
    "auth": {
        "token": "123456789"
    }
}


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

while True:
    name= "Logesh"

    latitude= 11.055712
    longitude= 76.804089
    mydata={'name': name, 'lat':latitude,'lon':longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=mydata, qos=0,
    print("Data published to IBM IoT platform: ",mydata)
    time.sleep(20)

client.disconnect()
```

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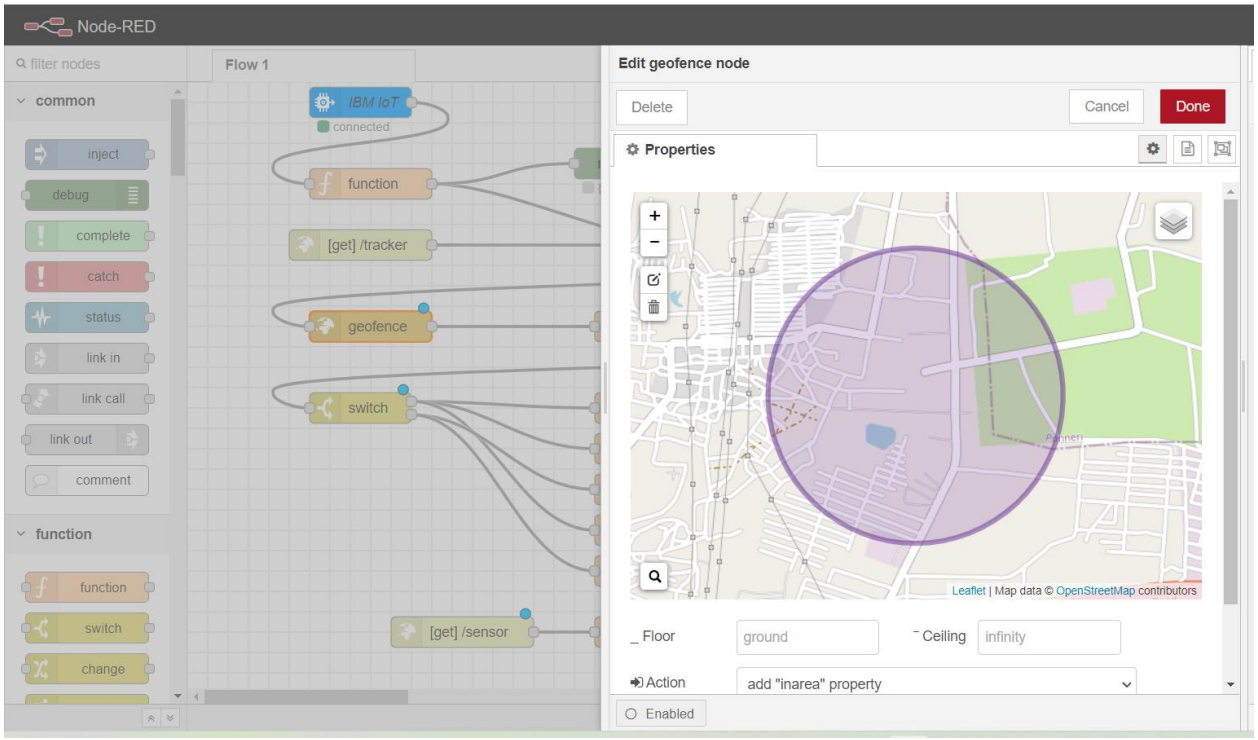
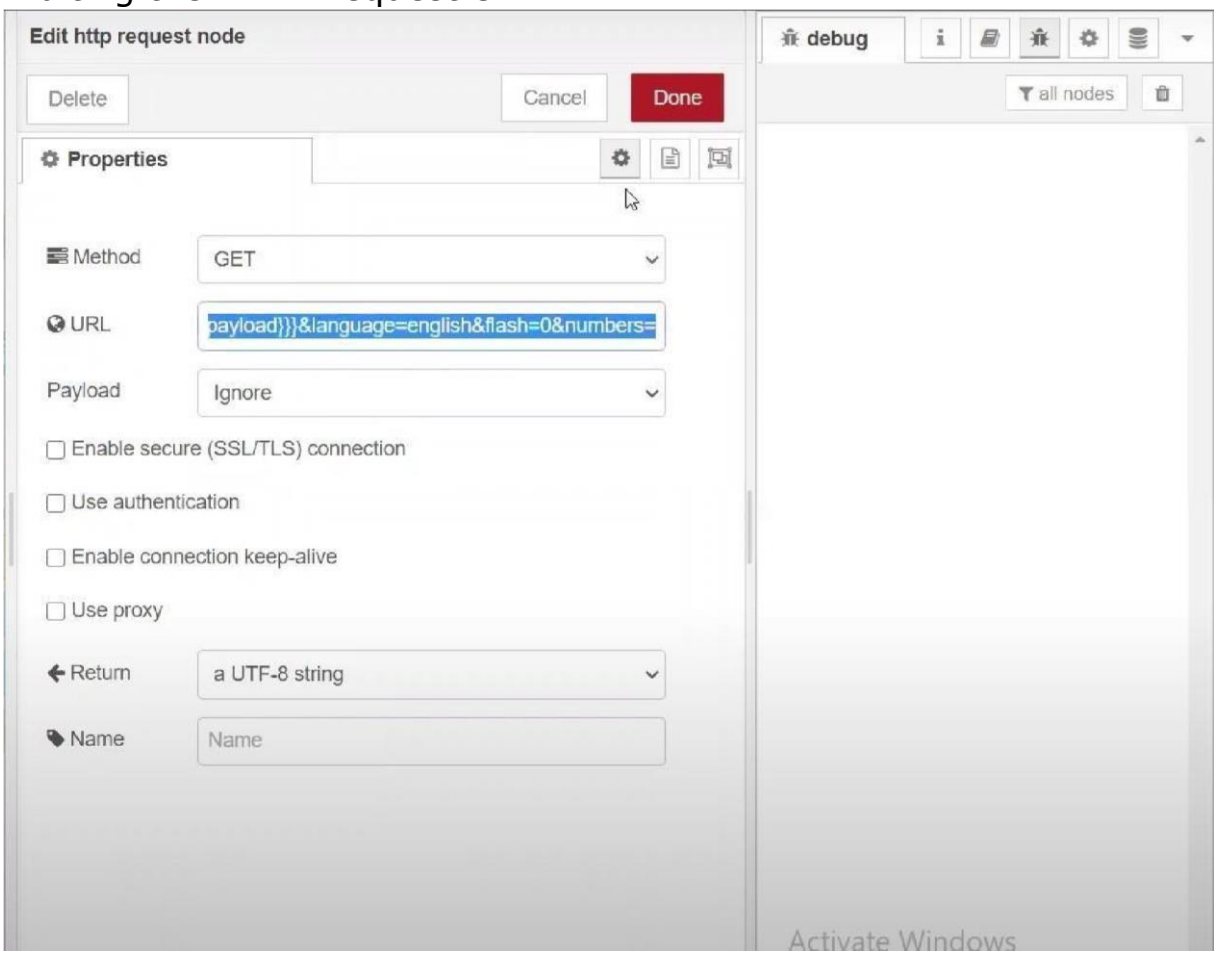
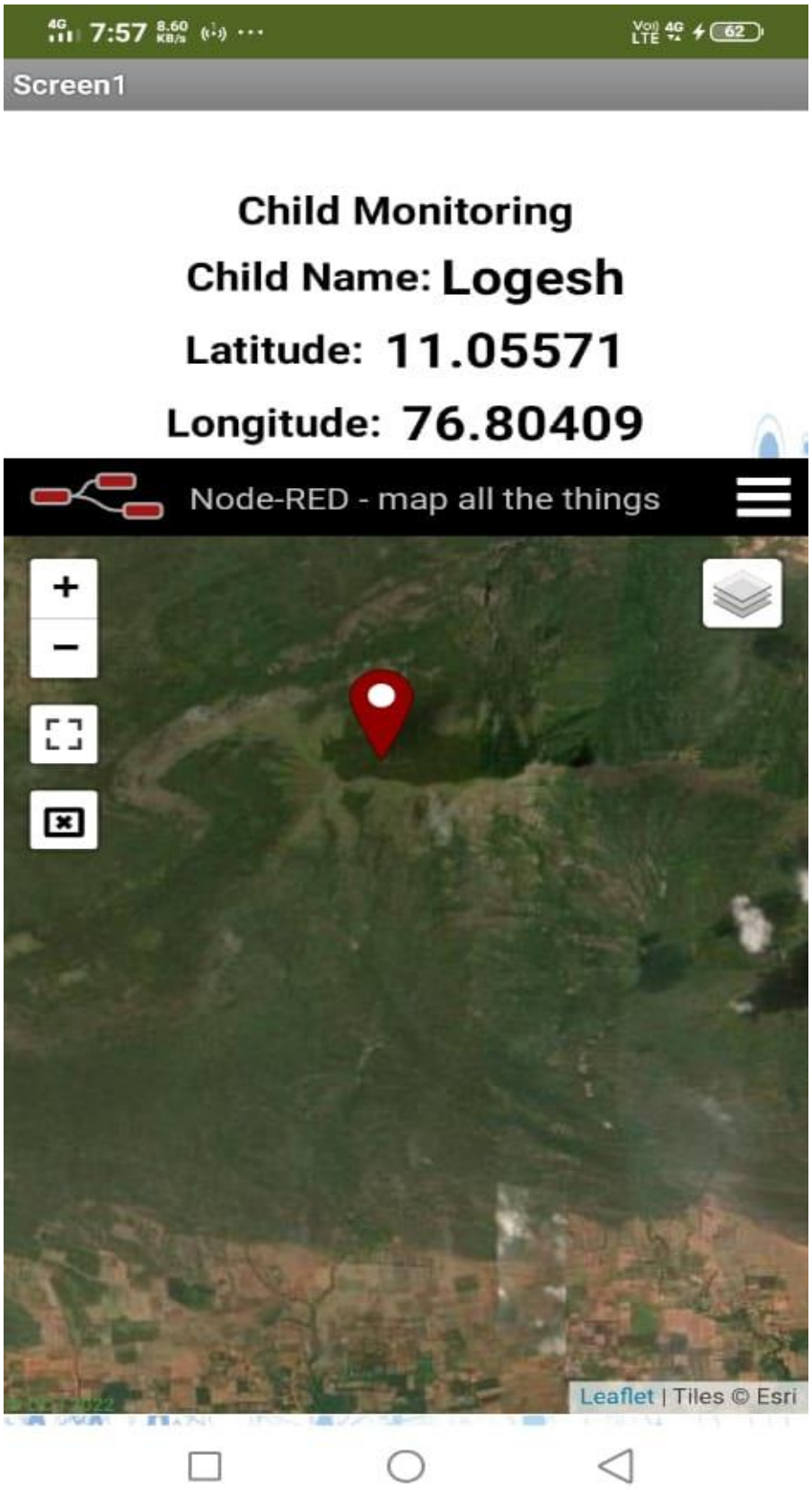
Created the GeoFence



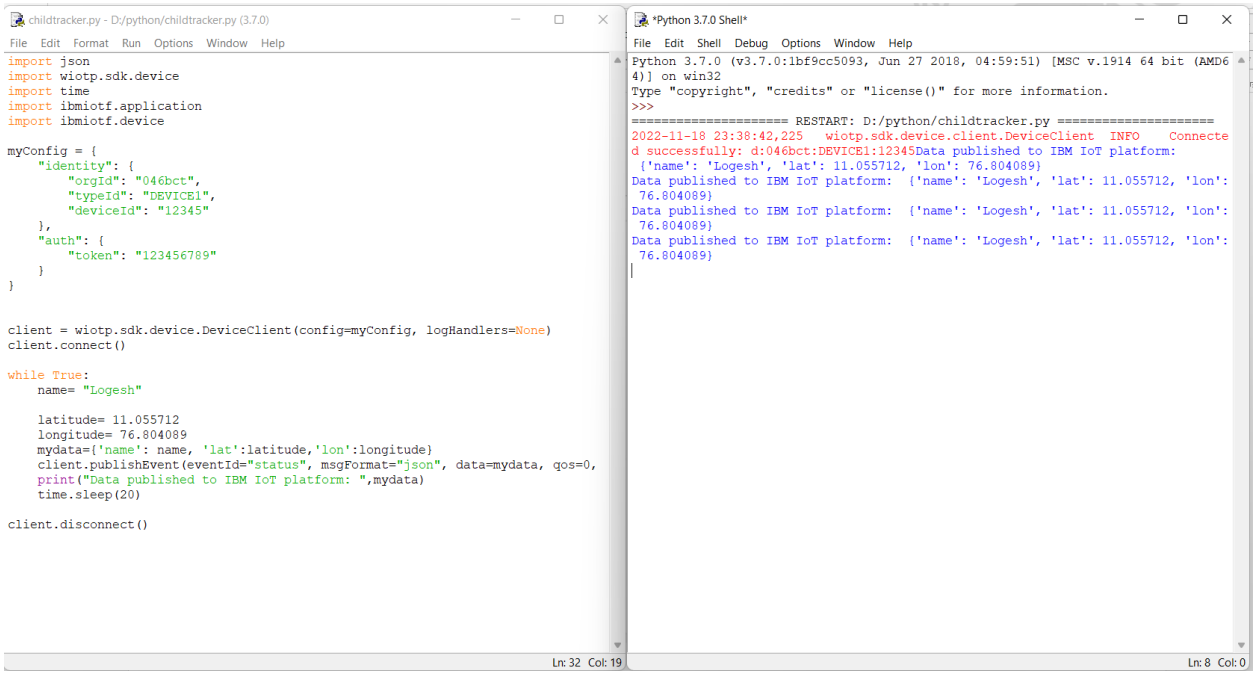
Editing the HTTP Request URL



- Located the child



- Python script sending requests to IBM Cloud



childtracker.py - D:/python/childtracker.py (3.7.0)

File Edit Format Run Options Window Help

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client.disconnect()
```

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Python 3.7.0 Shell

File Edit Shell Debug Options Window Help

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/python/childtracker.py ==========
2022-11-18 23:38:42,225   wiotp.sdk.device.client.DeviceClient  INFO    Connecte
d successfully: d:046bct:DEVICE1:12345Data published to IBM IoT platform:
 {'name': 'Logesh', 'lat': 11.055712, 'lon': 76.804089}
Data published to IBM IoT platform:  {'name': 'Logesh', 'lat': 11.055712, 'lon':
 76.804089}
Data published to IBM IoT platform:  {'name': 'Logesh', 'lat': 11.055712, 'lon':
 76.804089}
Data published to IBM IoT platform:  {'name': 'Logesh', 'lat': 11.055712, 'lon':
 76.804089}
```

Ln: 8 Col: 0

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

Result: Successfully developed the web application using Node-RED