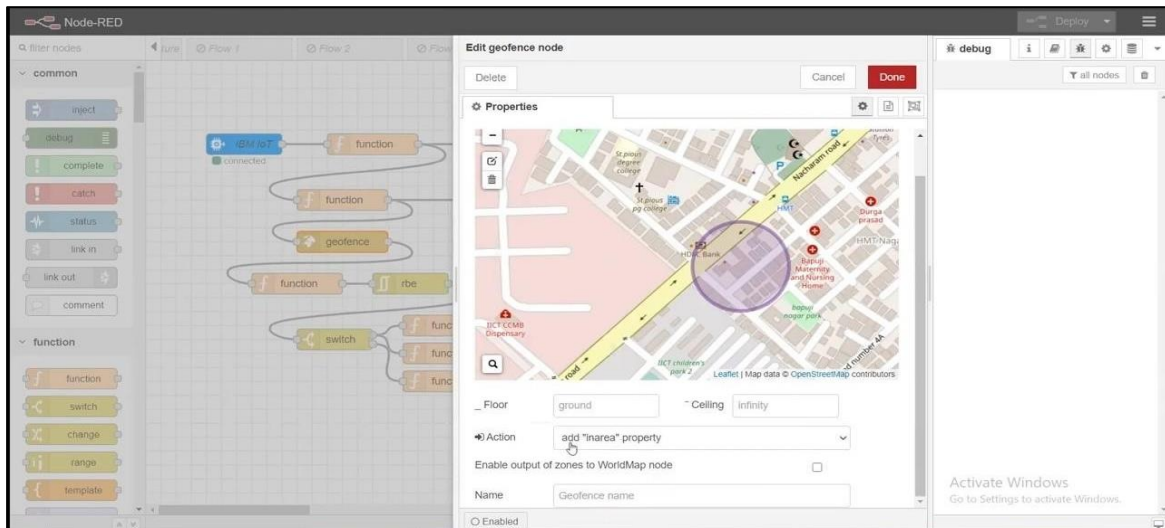


PROJECT DEVELOPMENT PHASE

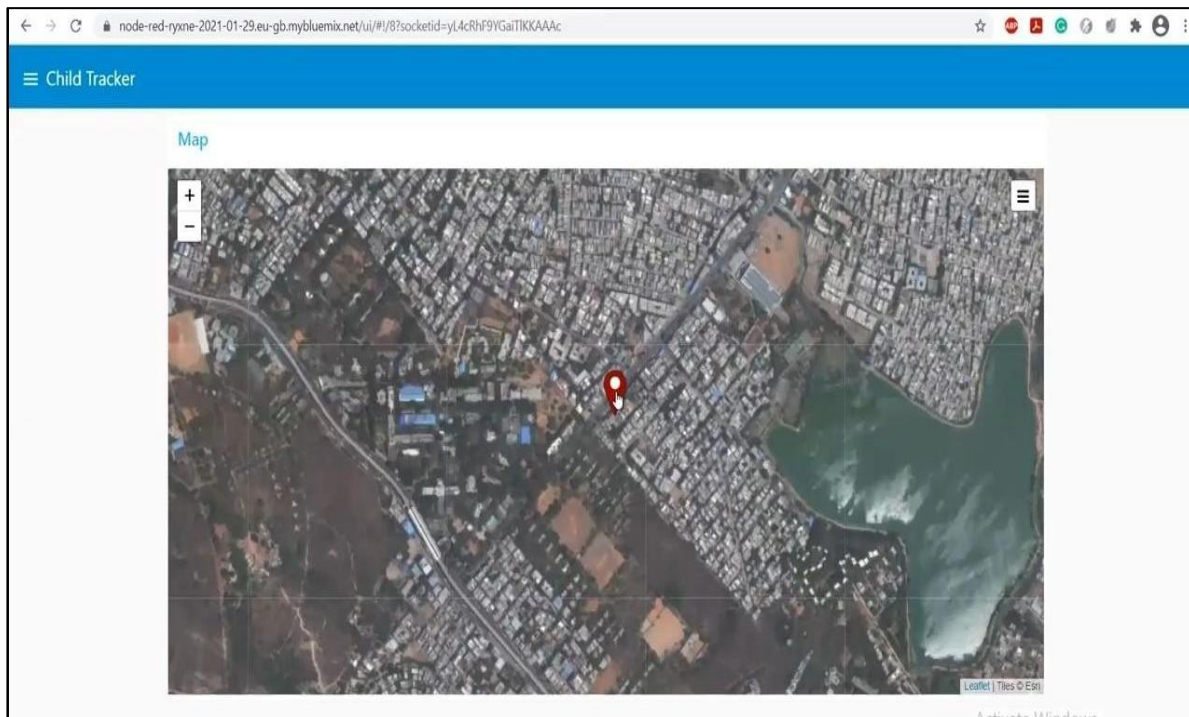
SPRINT-4

STEPS TO BE IMPLEMENTED:

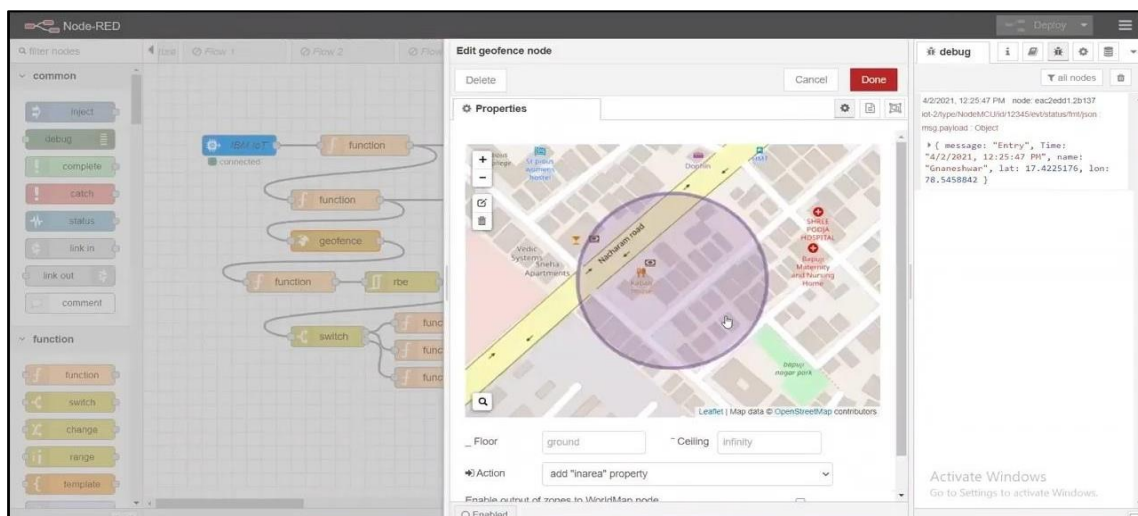
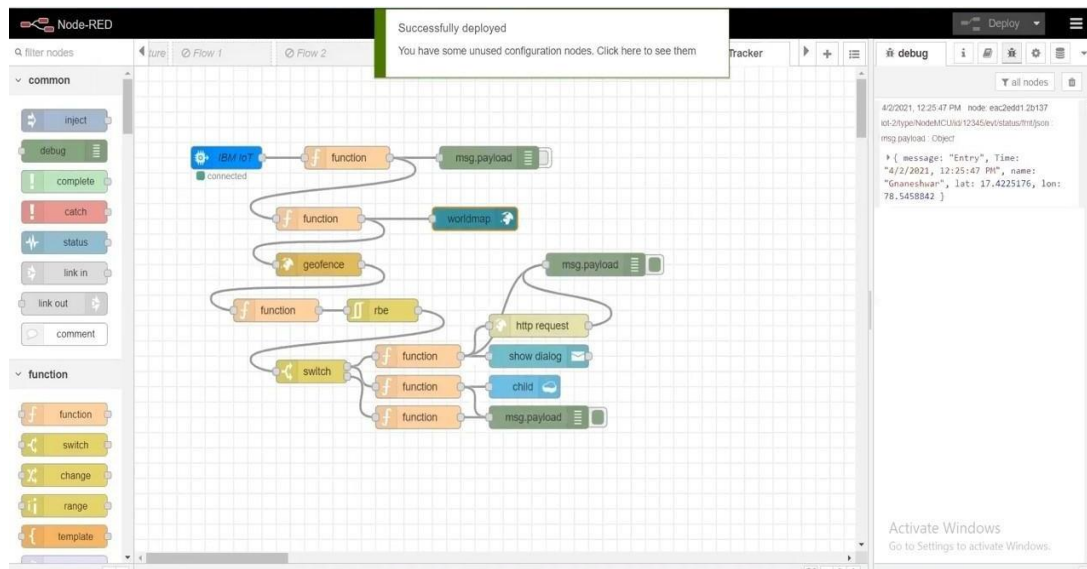
- Create **GEOFENCE** mode



- Located the Child's location



- **GEOFENCE** node created



- Requests are being send to **IBM -CLOUD**

```
editor - C:\Users\VP\Desktop\chvid.py | python console
chvid.py
1 import json
2 import wiotp.sdk.device
3 import time
4
5 myConfig = {
6     "identity": {
7         "orgid": "hj5fmy",
8         "typeId": "NodeMCU",
9         "deviceid": "12345"
10     },
11     "auth": {
12         "token": "12345678"
13     }
14 }
15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
16 client.connect()
17
18 while True:
19     name = "Smartbridge"
20     #in area location
21
22     #latitude= 17.4225176
23     #longitude= 78.5458842
24
25     #out area location
26
27     latitude= 17.4219272
28     longitude= 78.5458783
29     myData={ 'name': name, 'lat':latitude, 'lon':longitude}
30     client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPub
31     print("Data published to IBM IoT platform: ",myData)
32     time.sleep(5)
33
34 client.disconnect()
35
36
```

The screenshot shows the Spyder Python IDE interface. The main editor window displays a Python script named `child.py`. The script imports `json`, `wiotp.sdk.device`, and `time`. It defines a `myConfig` dictionary with an `identity` section (containing `orgId`, `typeId`, and `deviceId`) and an `auth` section (containing a `token`). The script then creates a `client` object using `wiotp.sdk.device.DeviceClient` and calls `client.connect()`. A `while` loop with `True` as the condition contains several comments and a call to `client.publishEvent` with a status message and data. The loop ends with `time.sleep(5)` and `client.disconnect()`.

The Python console on the right shows the execution output. It starts with `In [4]: runfile('C:/Users/HP/Desktop/child.py', wdir='C:/Users/HP/Desktop')`. The output consists of several log entries from the `wiotp.sdk.device.client.DeviceClient` module, showing successful connections and unexpected disconnections from the IBM Watson IoT platform. The timestamps and log levels (INFO and ERROR) are visible for each entry.

```
1 import json
2 import wiotp.sdk.device
3 import time
4
5 myConfig = {
6     "identity": {
7         "orgId": "hj5fmy",
8         "typeId": "NodeMCU",
9         "deviceId": "12345"
10    },
11    "auth": {
12        "token": "12345678"
13    }
14}
15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
16 client.connect()
17
18 while True:
19     name= "Smartbridge"
20     #in area location
21
22     #latitude= 17.4225176
23     #longitude= 78.5458842
24
25     #out area location
26
27     latitude= 17.4219272
28     longitude= 78.5488783
29     myData={'name': name, 'lat':latitude, 'lon':longitude}
30     client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPub
31     print("Data published to IBM IoT platform: ",myData)
32     time.sleep(5)
33
34 client.disconnect()
35
36
```

```
In [4]: runfile('C:/Users/HP/Desktop/child.py', wdir='C:/Users/HP/Desktop')
2021-04-02 12:29:41,598 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:hj5fmy:NodeMCU:12345
2021-04-02 12:29:41,610 wiotp.sdk.device.client.DeviceClient ERROR Unexpected disconnect from IBM Watson IoT
Platform: 1
Data published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5488783}
2021-04-02 12:29:43,261 wiotp.sdk.device.client.DeviceClient ERROR Unexpected disconnect from IBM Watson IoT
Platform: 1
2021-04-02 12:29:43,264 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:hj5fmy:NodeMCU:12345
2021-04-02 12:29:44,887 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:hj5fmy:NodeMCU:12345
2021-04-02 12:29:44,894 wiotp.sdk.device.client.DeviceClient ERROR Unexpected disconnect from IBM Watson IoT
Platform: 1
```

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

