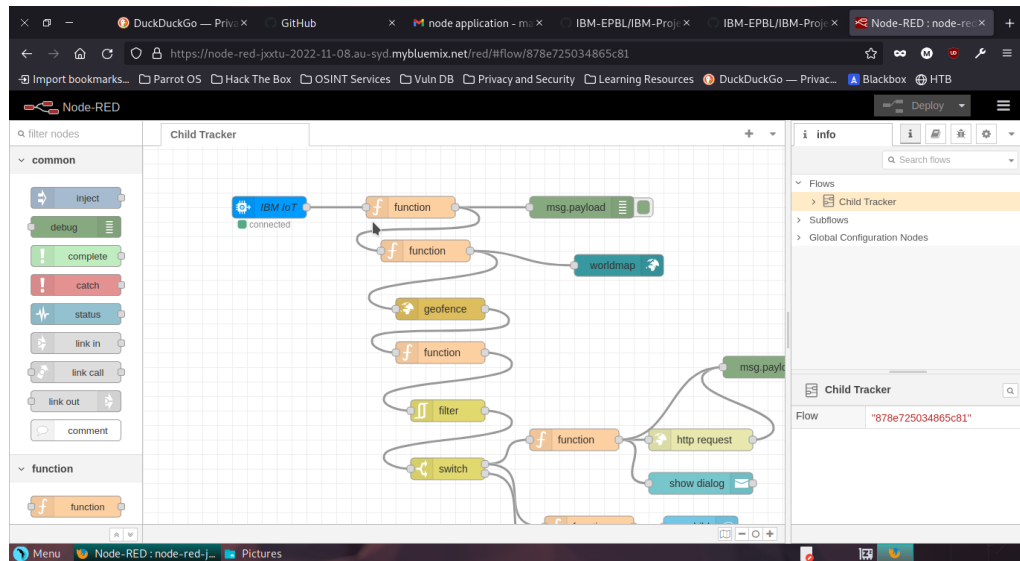


Develop A Web Application Using Node-RED

Date	28 October 2022
Team ID	PNT2022TMID44574
Project Name	Project - IoT Based Safety Gadget For Child Safety Monitoring & Notification
Maximum Marks	2 Marks

Steps Followed:



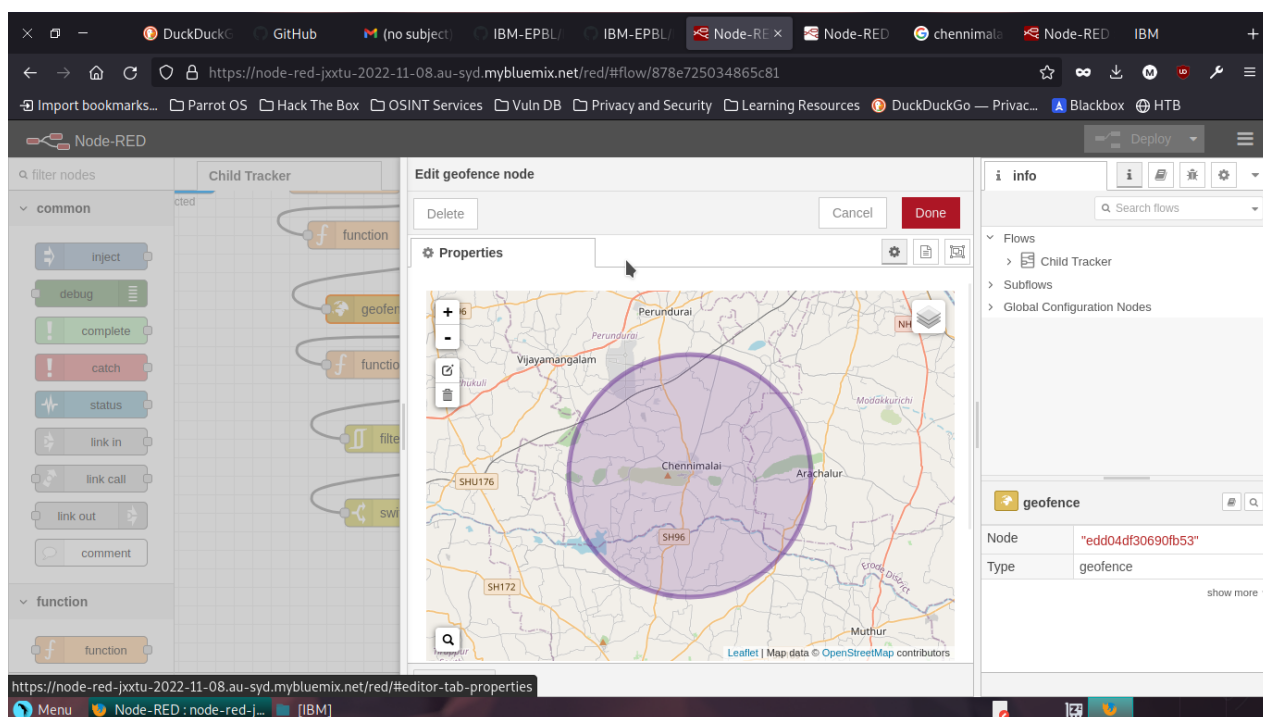
Opened a Node-RED project

- Added code to get child location in python

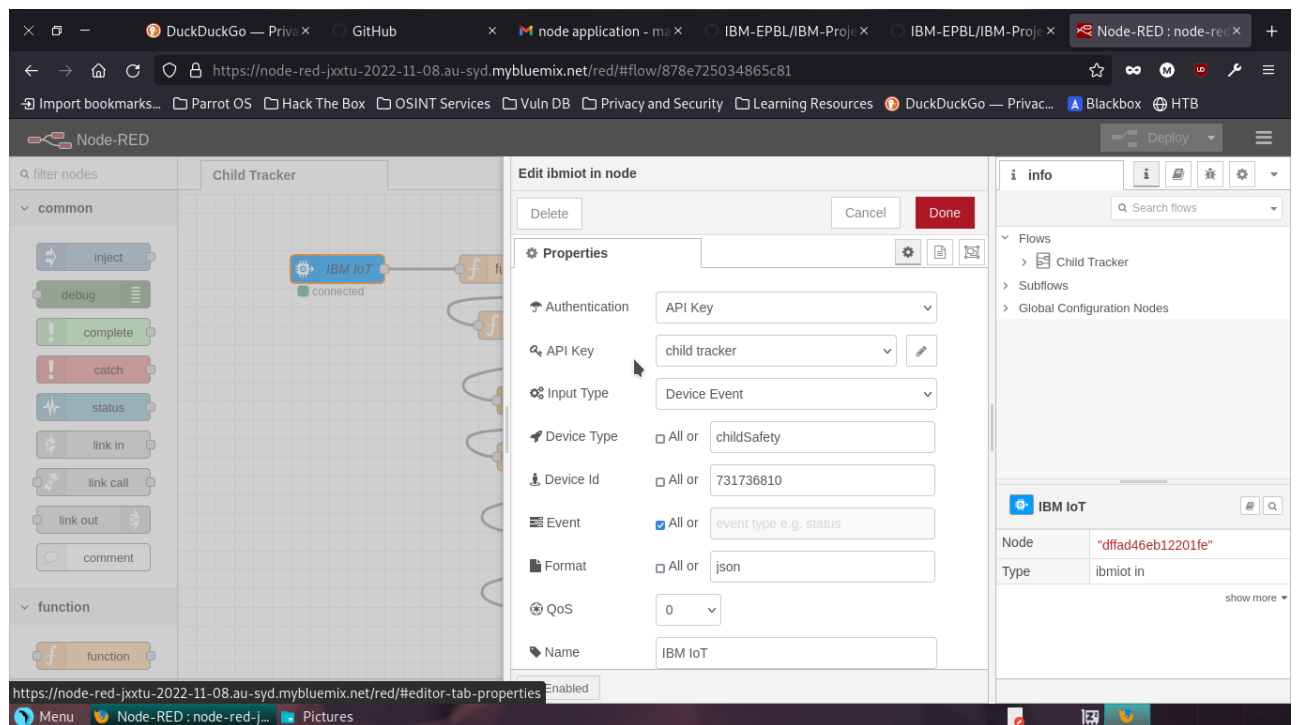
```
File Edit Selection View Go Run Terminal Help
child safety py script.py
home > mathi > Desktop > child safety py script.py > longitude
1 import json
2 import wiotp.sdk.device
3 import time
4
5 myConfig = {
6     "identity": {
7         "orgId": "948e13",
8         "typeId": "childsafety",
9         "deviceId": "731736810"
10    },
11    },
12    "auth": {
13        "token": "12345678"
14    }
15 }
16 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
17 client.connect()
18
19 while True:
20     name= "Smartbridge"
21     #in area location
22
23     #latitude=
24     #longitude=
25
26     #out area location
27
28     latitude=11.165198
29     longitude=77.6037642
30     myData={'name': name, 'lat':latitude, 'lon':longitude}
31     client.publishEvent(eventId="status",msgFormat="json",data=myData,qos=0, onPublish=None)
32     print("Data published to IoT platform:",myData)
```

Ln 29, Col 25 Spaces: 4 UTF-8 CRLF Python 3.9.2 64-bit

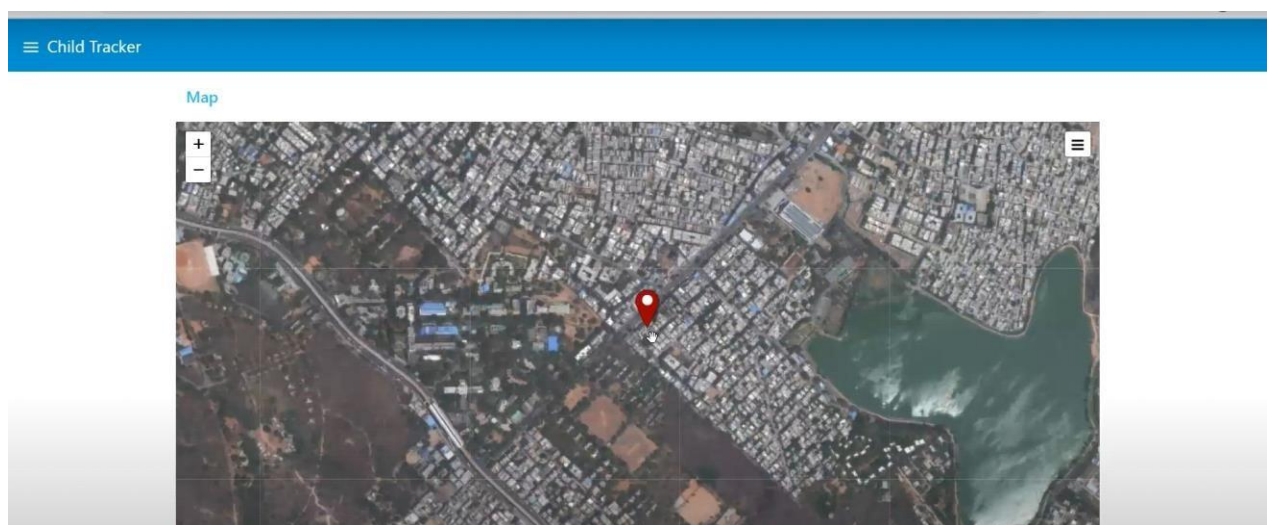
Menu chennimalai latitude an... [IBM] child safety py script.p...



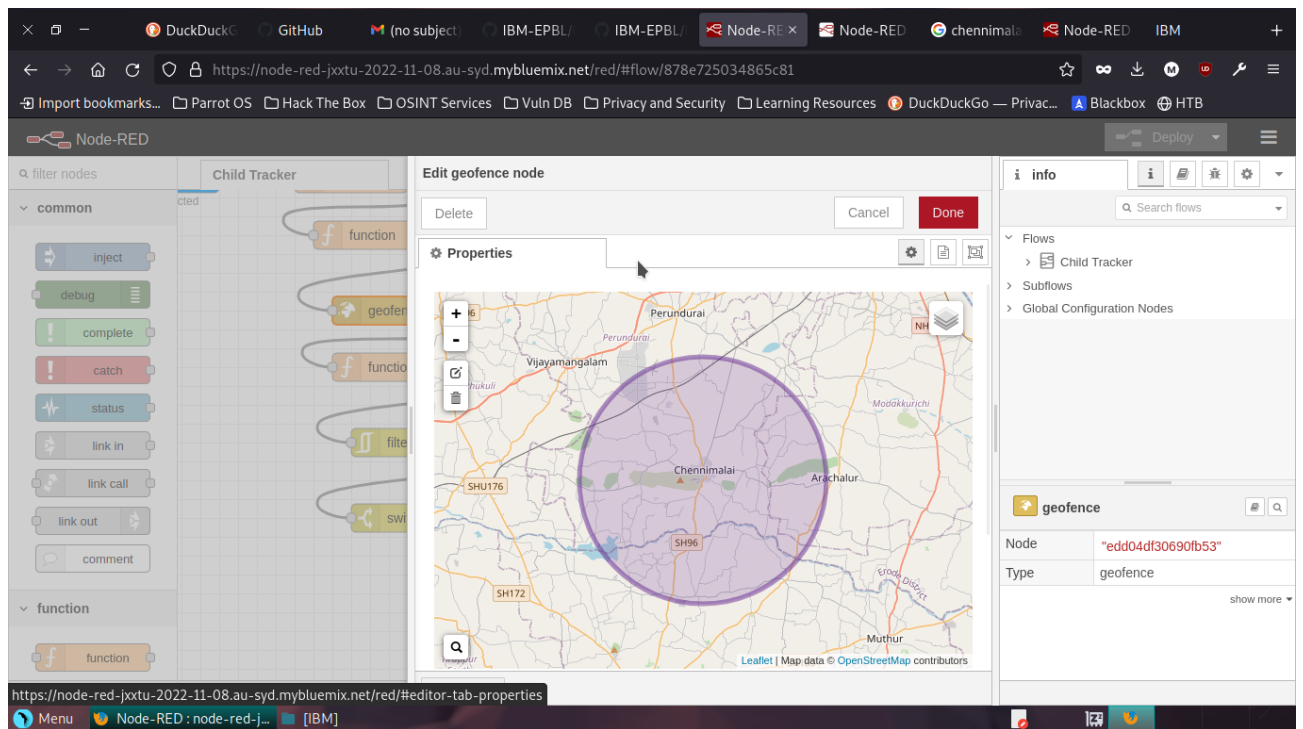
- Created the GeoFence



- Editing the HTTP Request URL



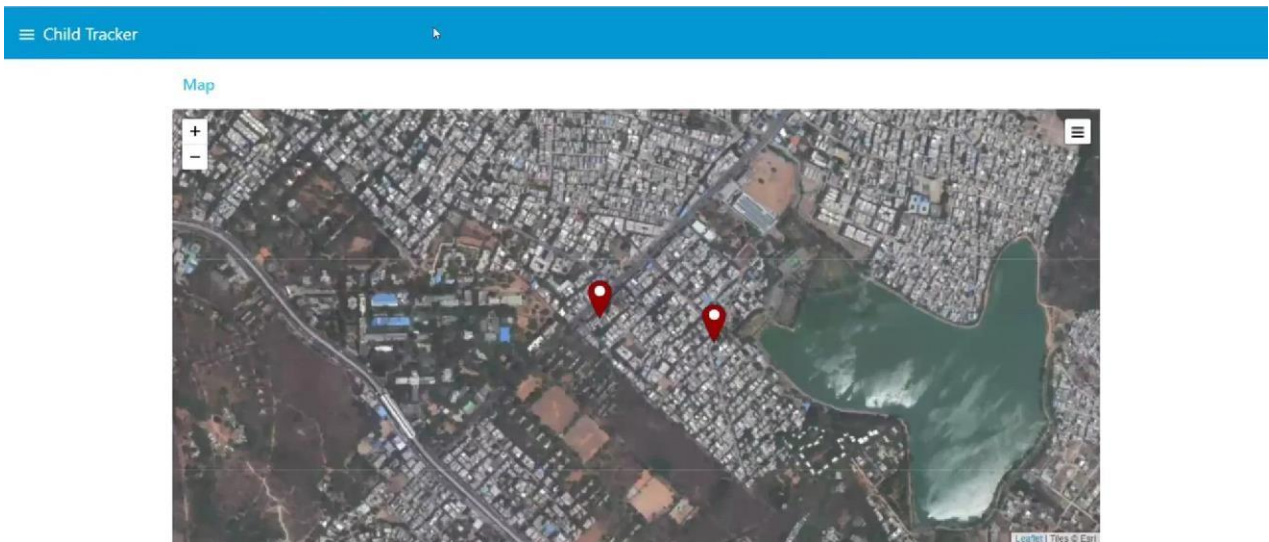
- Located the child



- Created the geofence node
- Python script sending requests to IBM Cloud

```
File Edit Selection View Go Run Terminal Help
• child safety py script.py - VSCodium

home > mathi > Desktop > • child safety py script.py > longitude
1 import json
2 import wiotp.sdk.device
3 import time
4
5 myConfig = {
6     "identity": {
7         "orgId": "948e13",
8         "typeId": "childsafety",
9         "deviceId": "731736810"
10    },
11 },
12 "auth": {
13     "token": "12345678"
14 }
15 }
16 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
17 client.connect()
18
19 while True:
20     name= "Smartbridge"
21     #in area location
22
23     #latitude=
24     #longitude=
25
26     #out area location
27
28     latitude=11.165198
29     longitude=77.6037642
30     myData={'name': name, 'lat': latitude, 'lon': longitude}
31     client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
32     print("Data published to IoT platform:", myData)
```



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

Result: Successfully developed a web application using Node-RED