SPRINT 2

creating web application using RED node
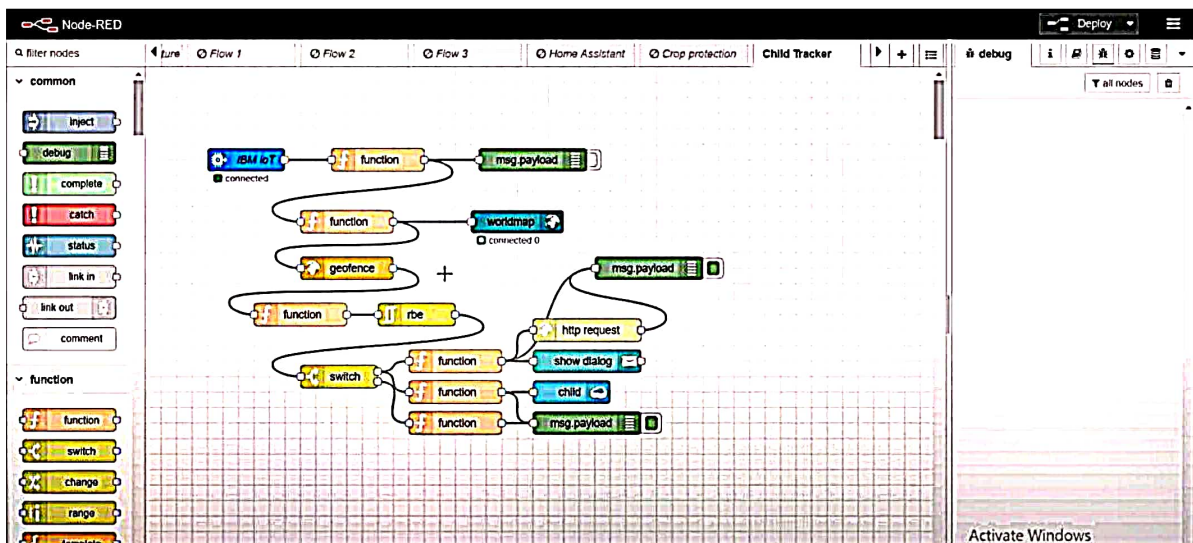
TEAM ID	PNT2022TMID50300
PROJECT NAME	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

Aim:

Develop the web application using Node-RED Steps

Followed:

- Opened a Node-RED project

- Added code to get child location in python

```python
import json
import wiotp.sdk.device
import time

myConfig = {
    "identity": {
        "orgId": "hj5fmy",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

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

        latitude= 17.4225176
        longitude= 78.5458842

        #out area location

        #latitude= 17.4219272
        #longitude= 78.5488783
        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()
```
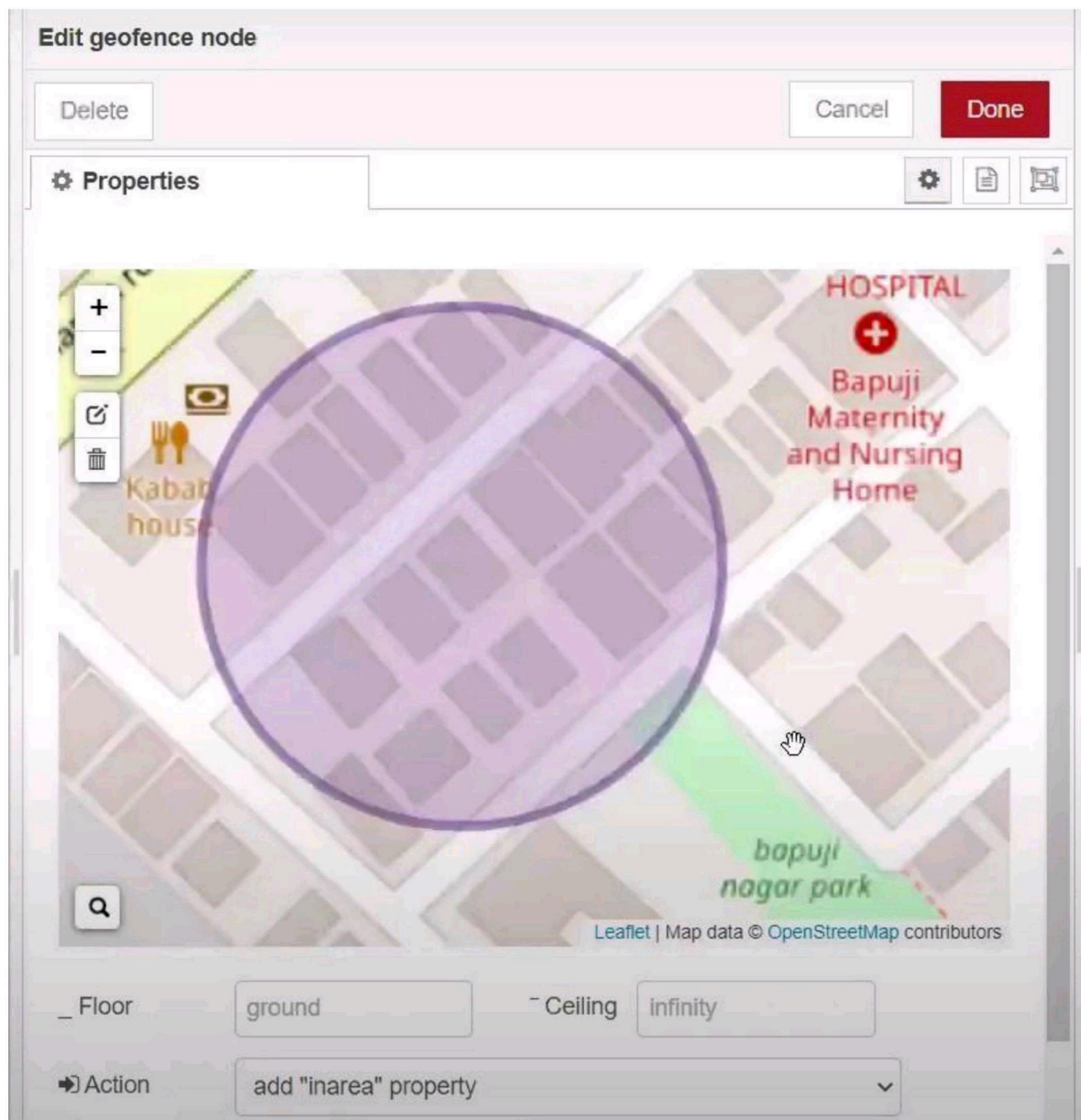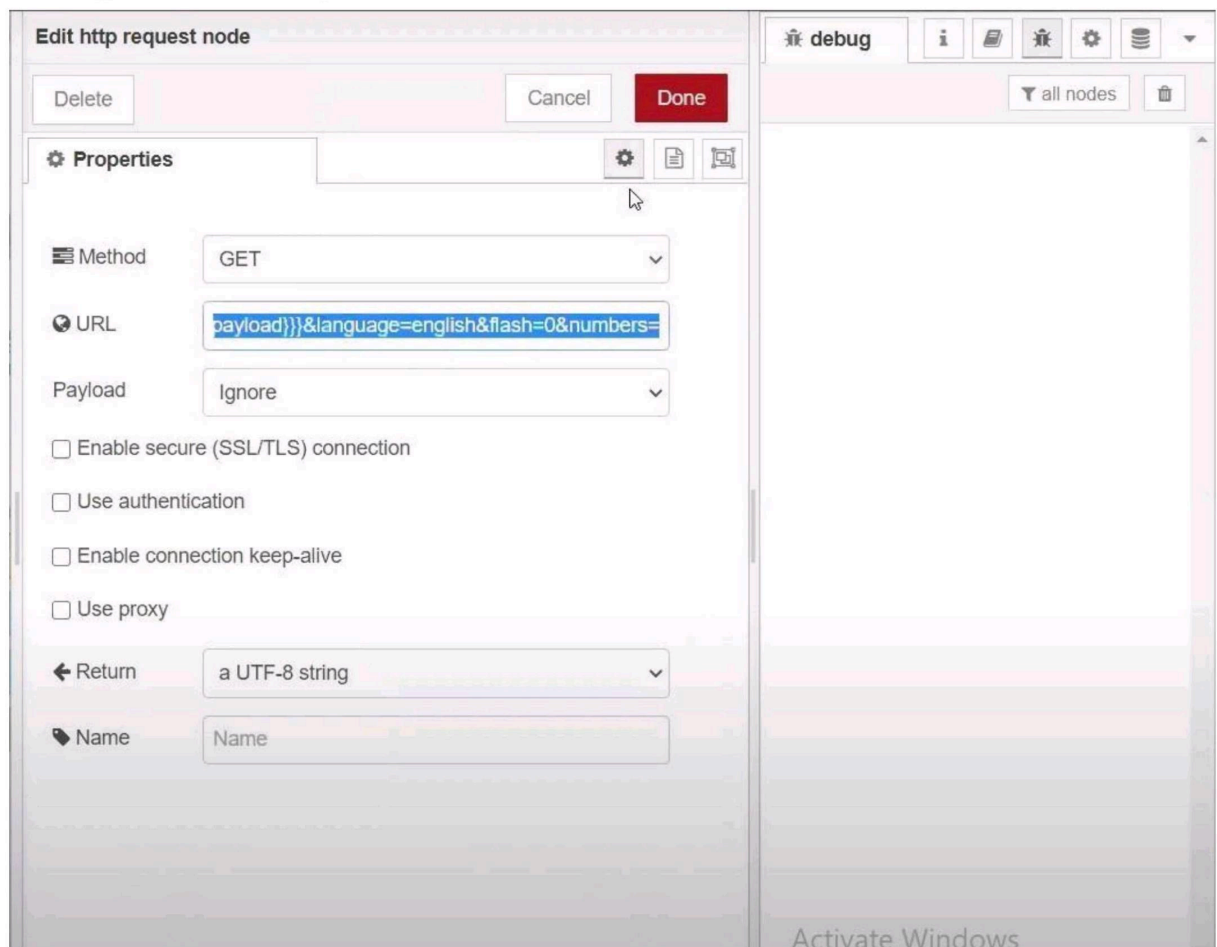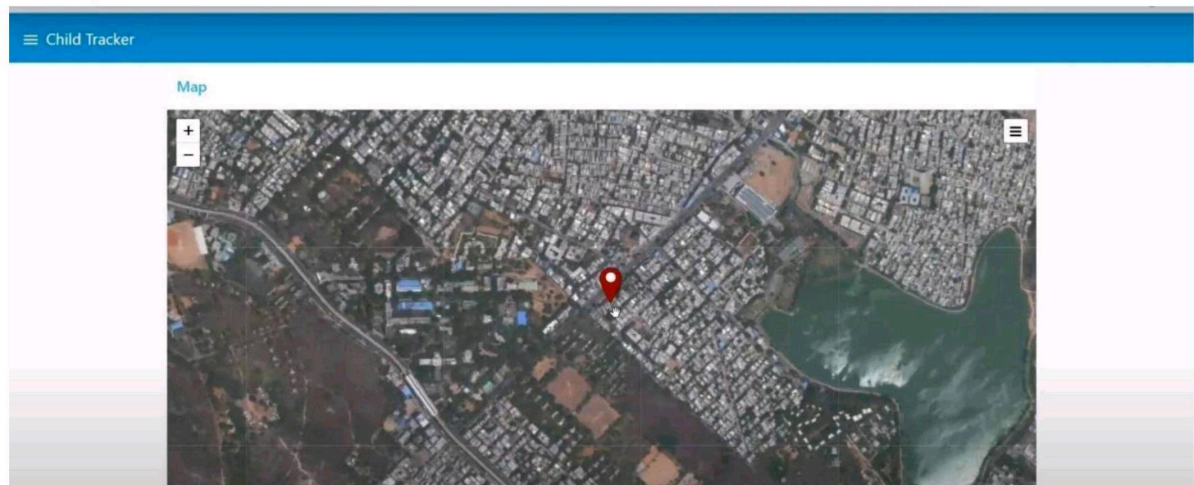
- Created the GeoFence
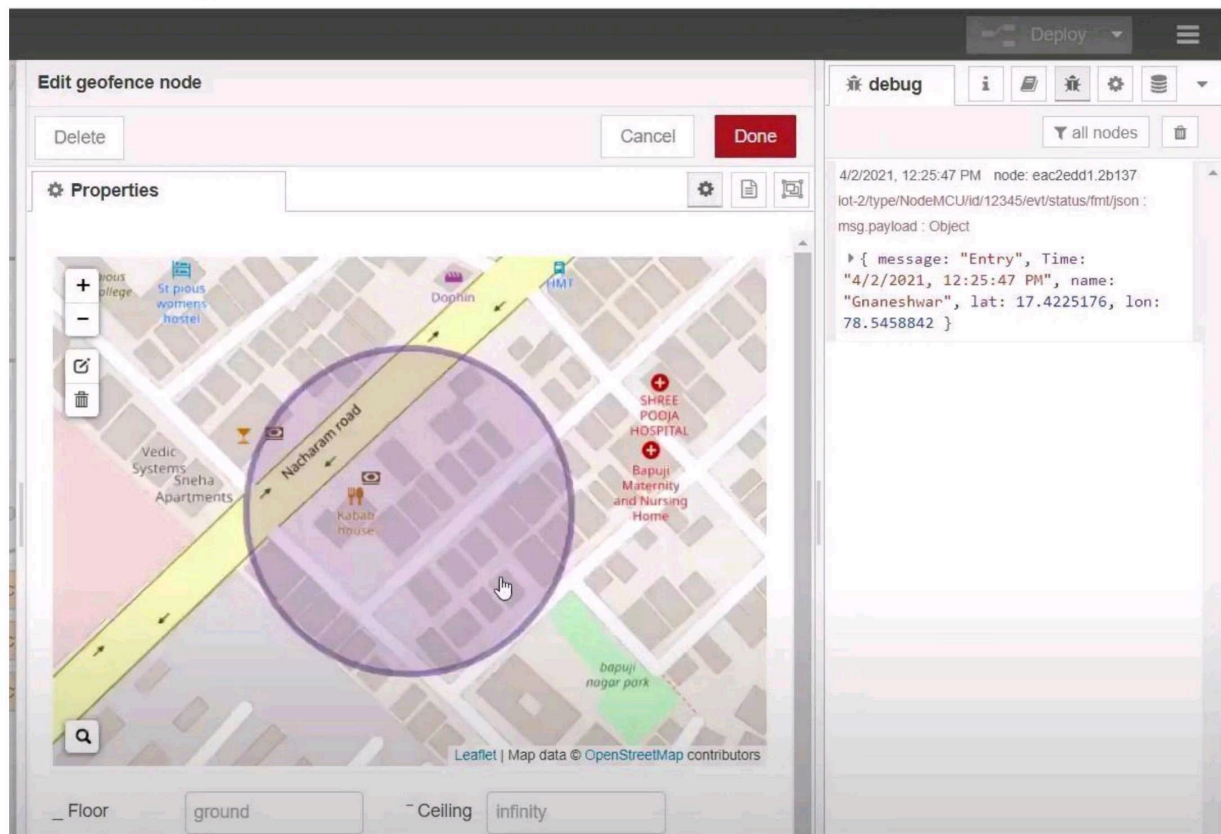
- Editing the HTTP Request URL

Edit http request node

Delete   Cancel   Done

⚙ Properties

⊟ Method	GET ⌄
🌐 URL	payload}}}&language=english&flash=0&numbers=
Payload	Ignore ⌄

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

☐ Use proxy

← Return	a UTF-8 string ⌄
🏷 Name	Name

🐞 debug   i 📖 🐞 ⚙ 🗄 ▼

▼ all nodes 🗑

Activate Windows

- Located the child
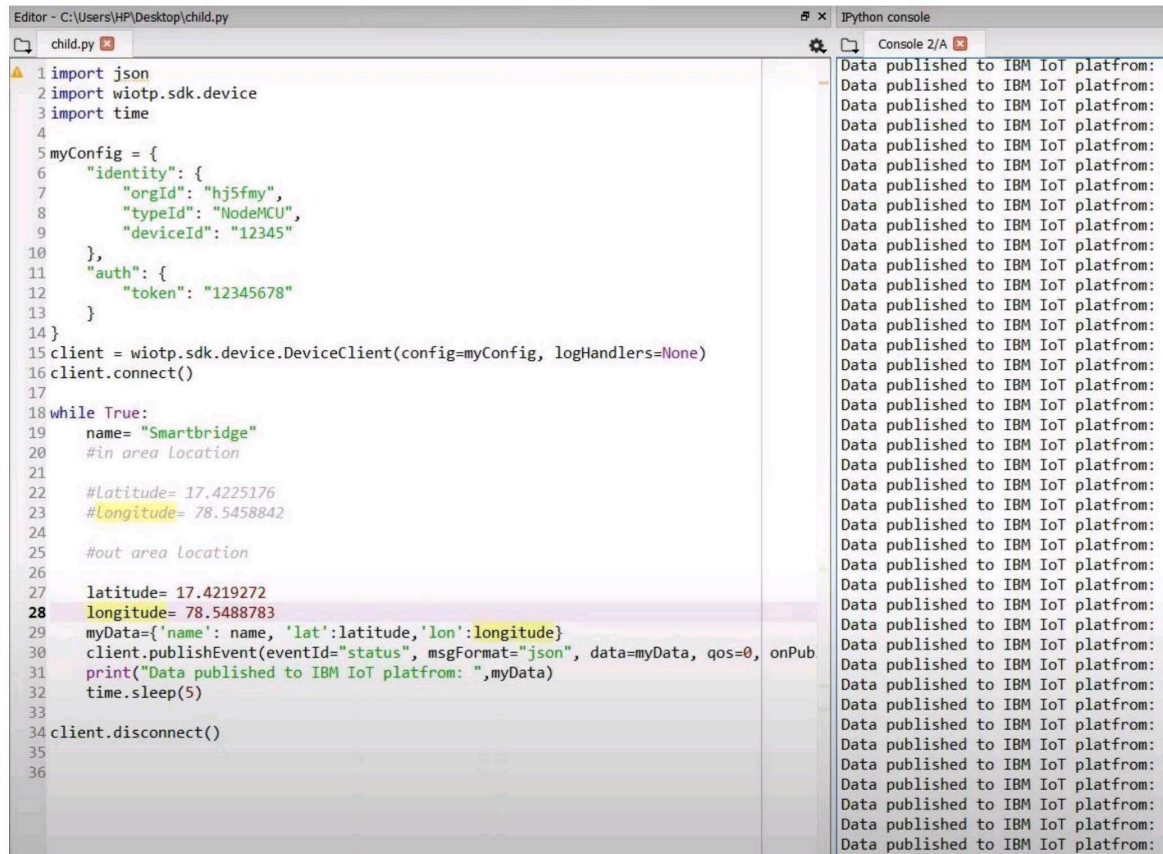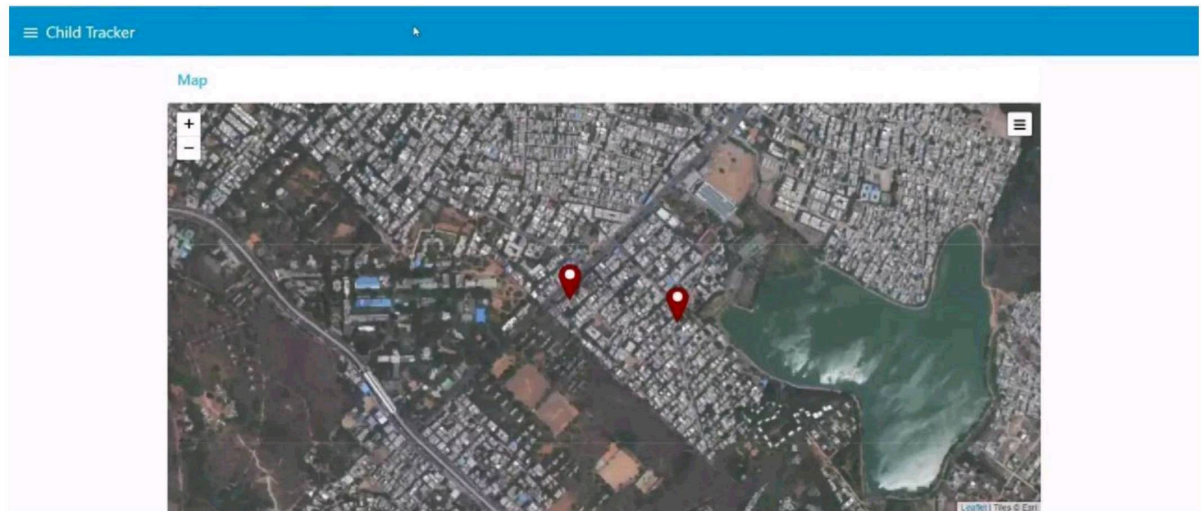
≡ Child Tracker

Map

- 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