

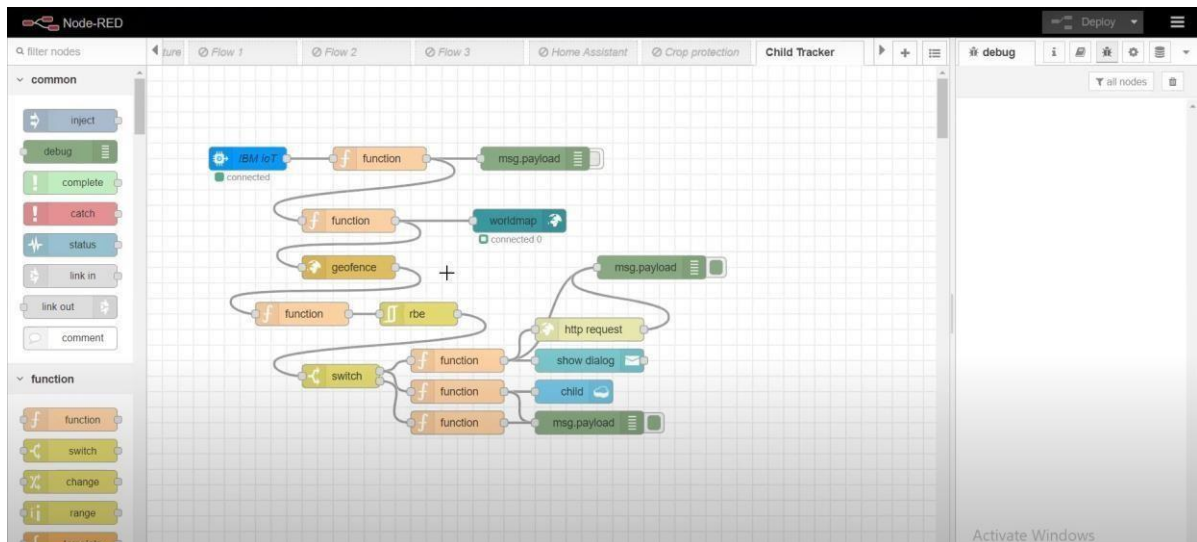
Developing Web Application Using Node-RED

Date	11-11-2022
Team ID	PNT2022TMID42919
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification

Aim: Develop the web application using Node-RED

Steps Followed:

Opened a Node-RED project:



Add code in python to track child location:

```
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()

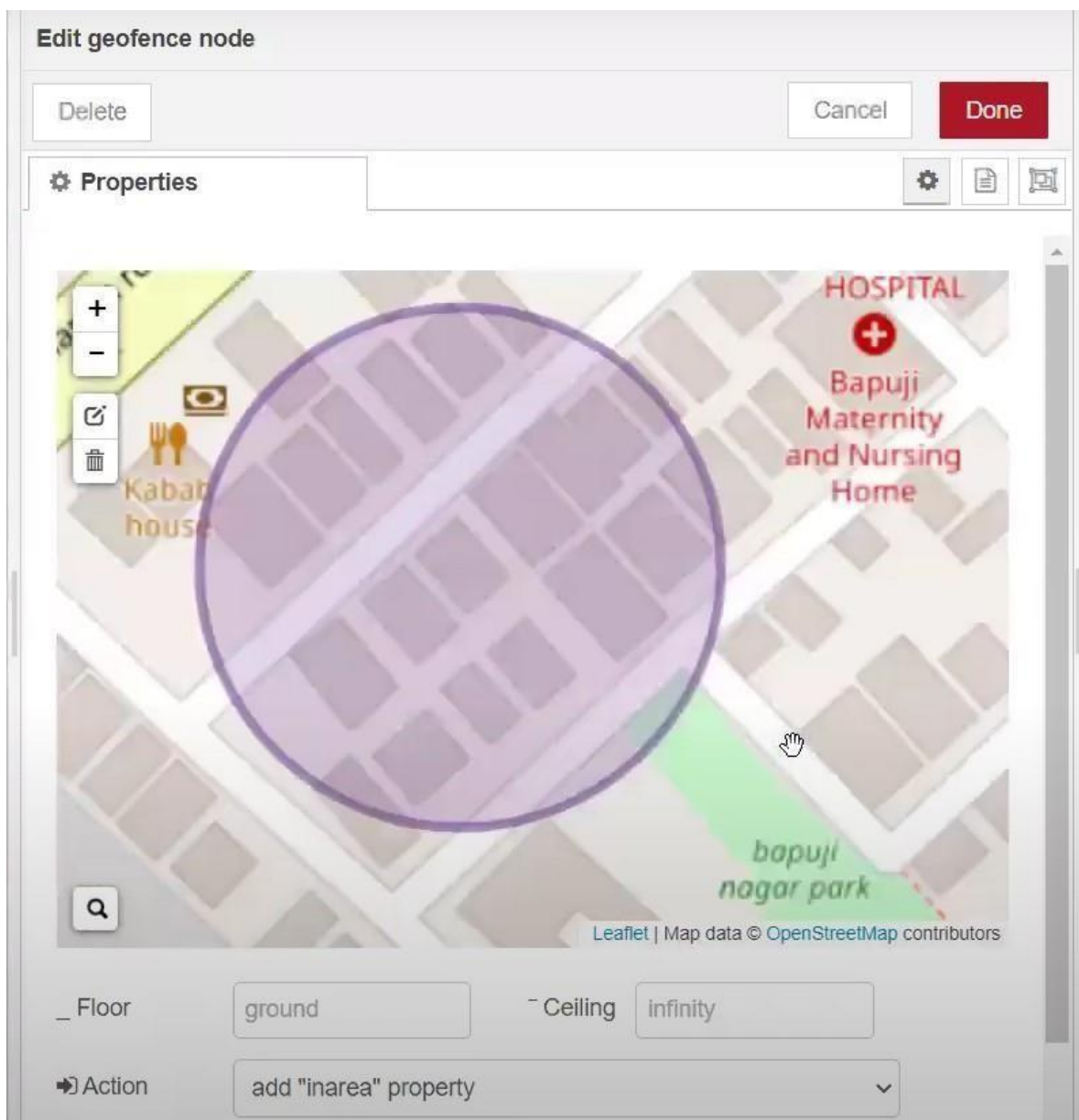
while True:
    name= "Smartbridge"
    #in area location

    latitude= 17.4225176
    longitude= 78.5458842

    #out area location

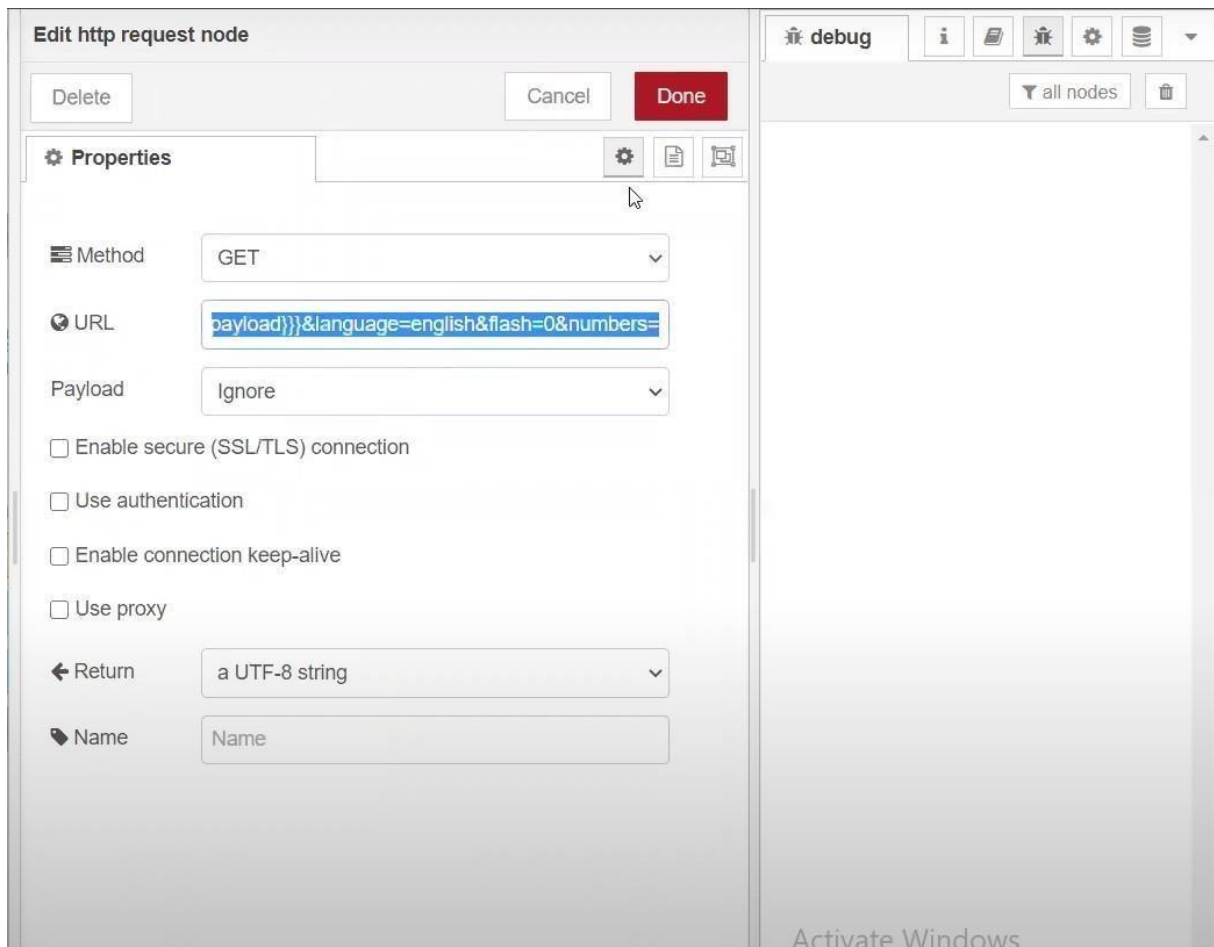
    #latitude= 17.4219272
    #longitude= 78.5488783
    myData={'name': name, 'lat':latitude, 'lon':longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBM IoT platfrom: ",myData)
    time.sleep(5)

client.disconnect()
```

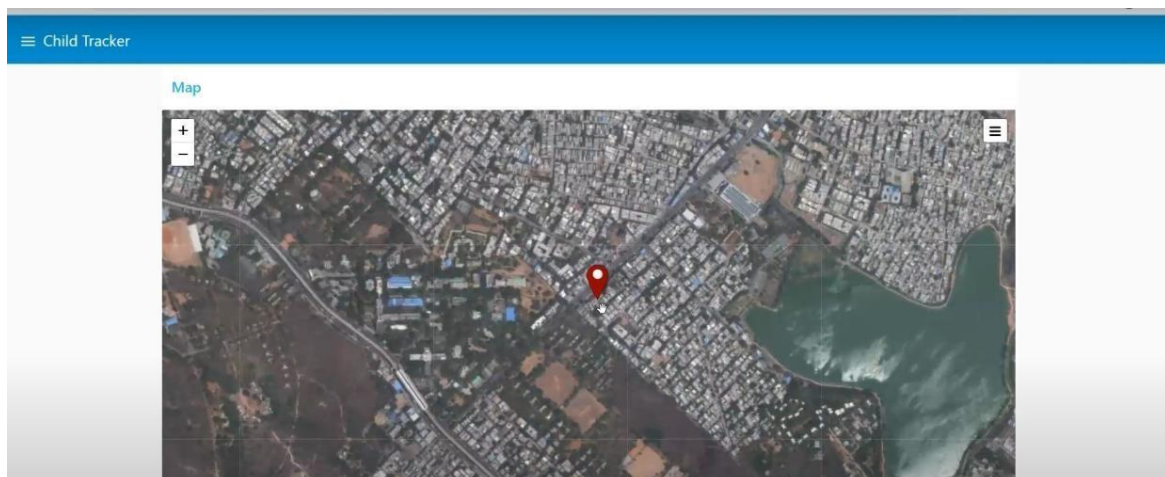


- Create the GeoFence

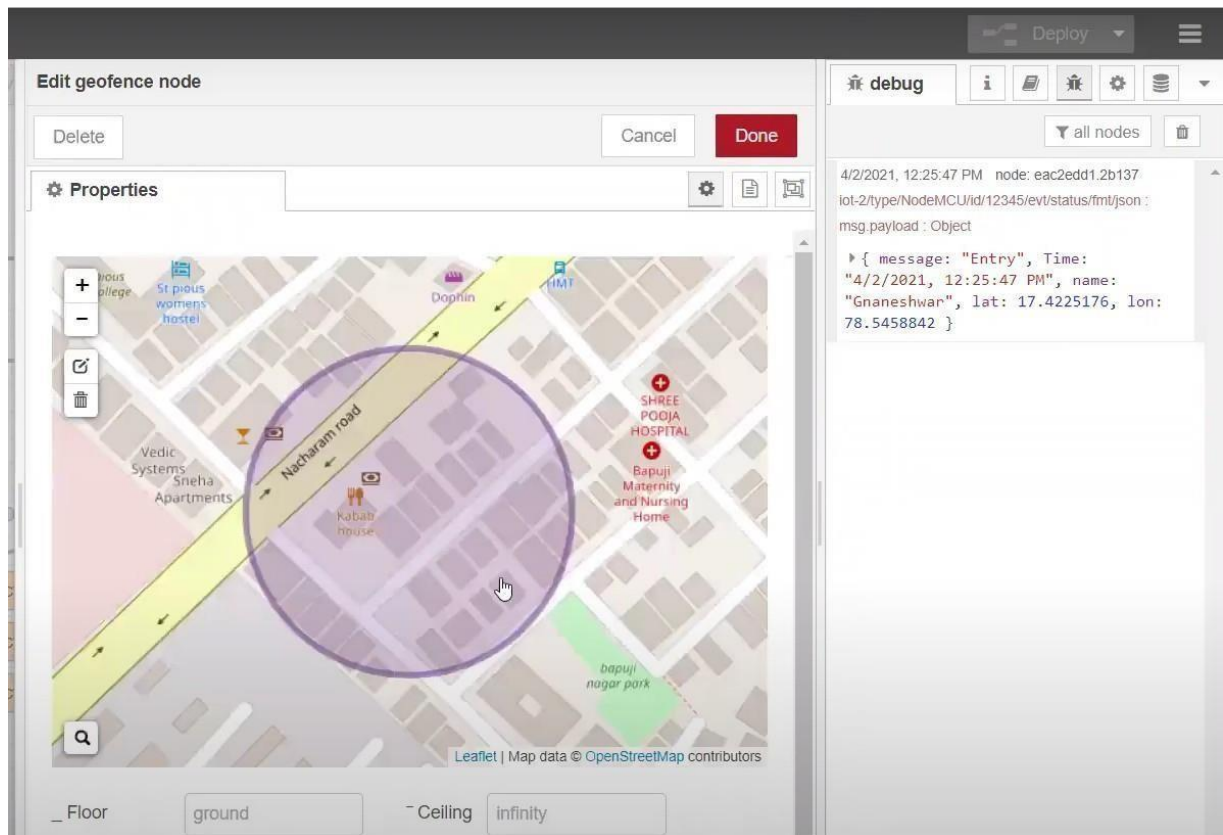
- Editing the HTTP Request URL:



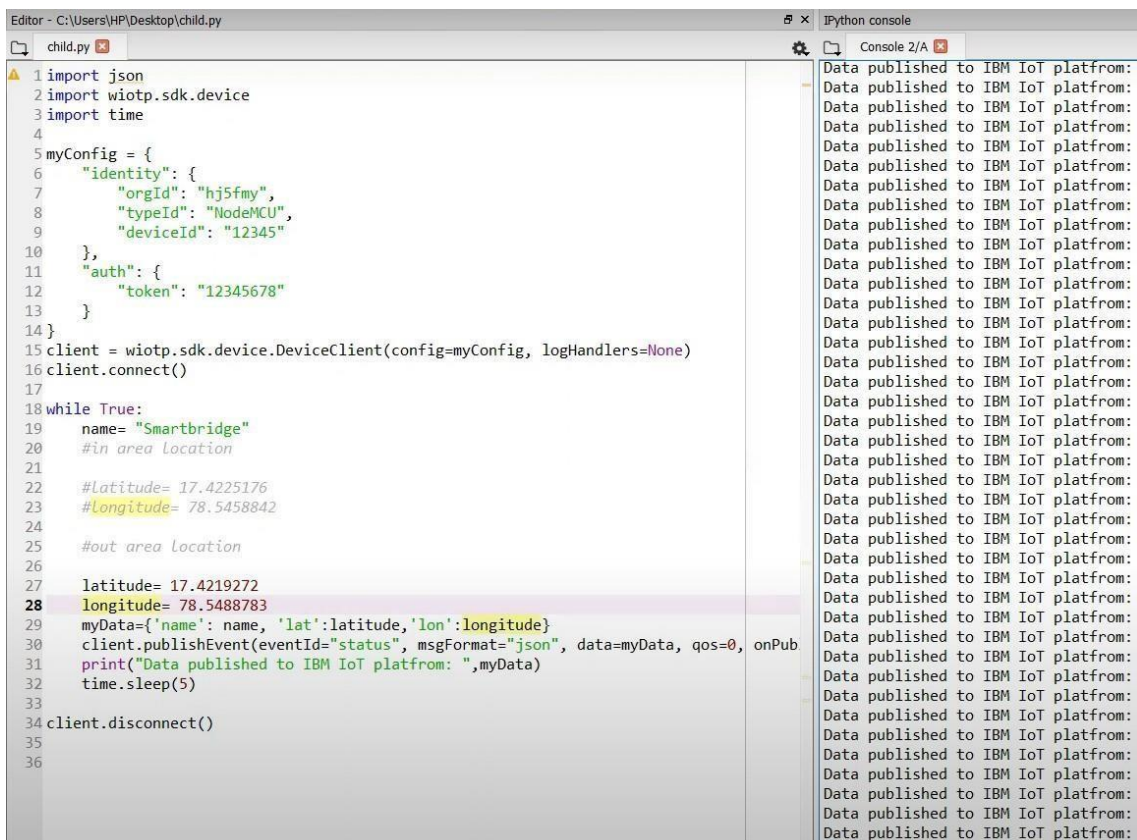
- Locating the child:



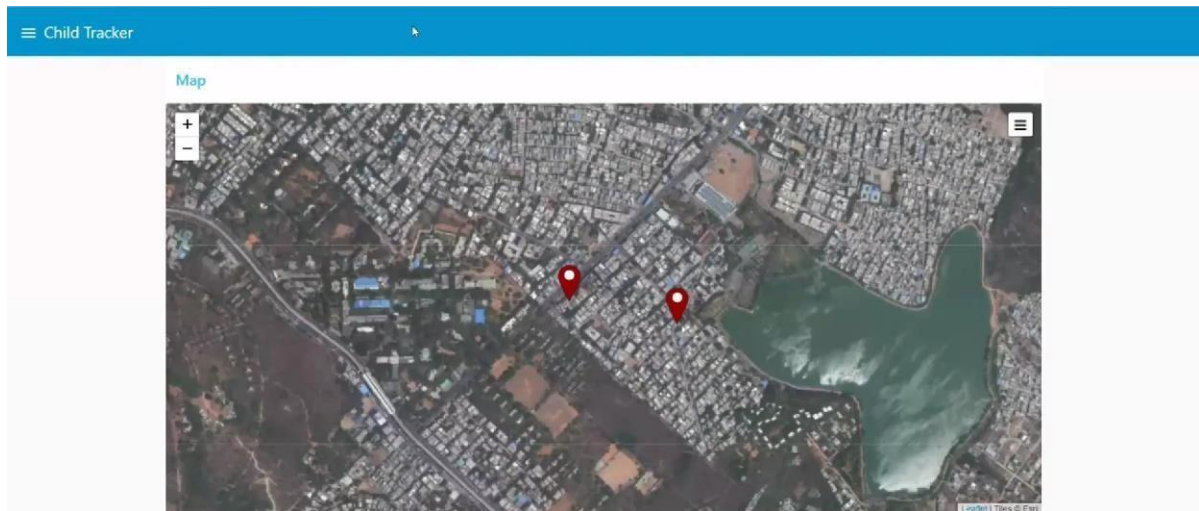
- Created the geofence node:



- 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