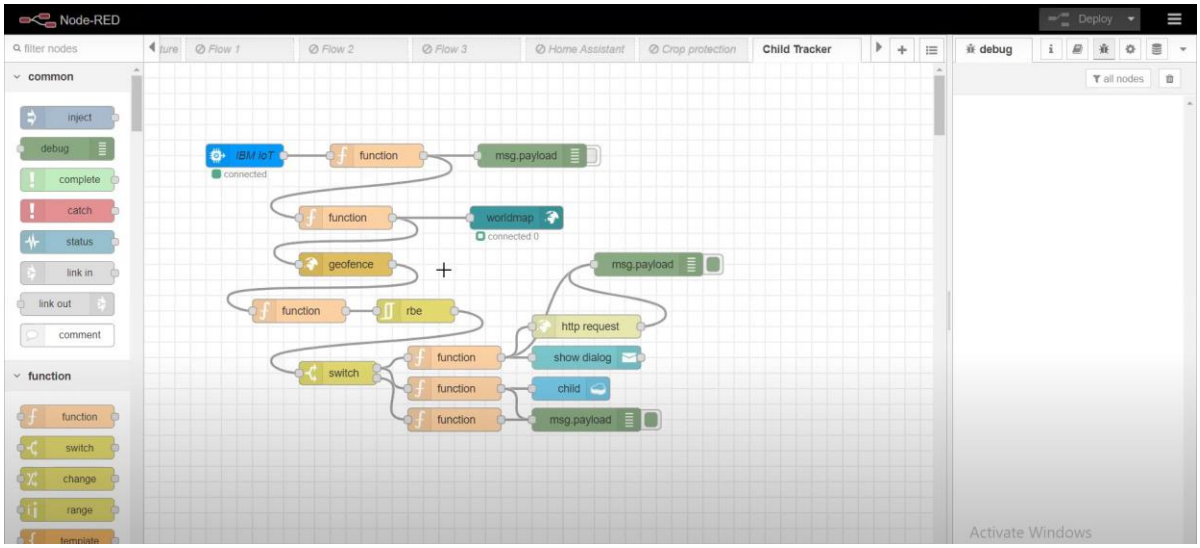
Develop The Web Application Using Node-RED

Develop The Web Application Using Node-RED	14 November 2022
Project name	IoT Based Safety Gadget for Child Safety Monitoring and Notification
Team Id	PNT2022TMID33419

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

- Opened a Node-RED project

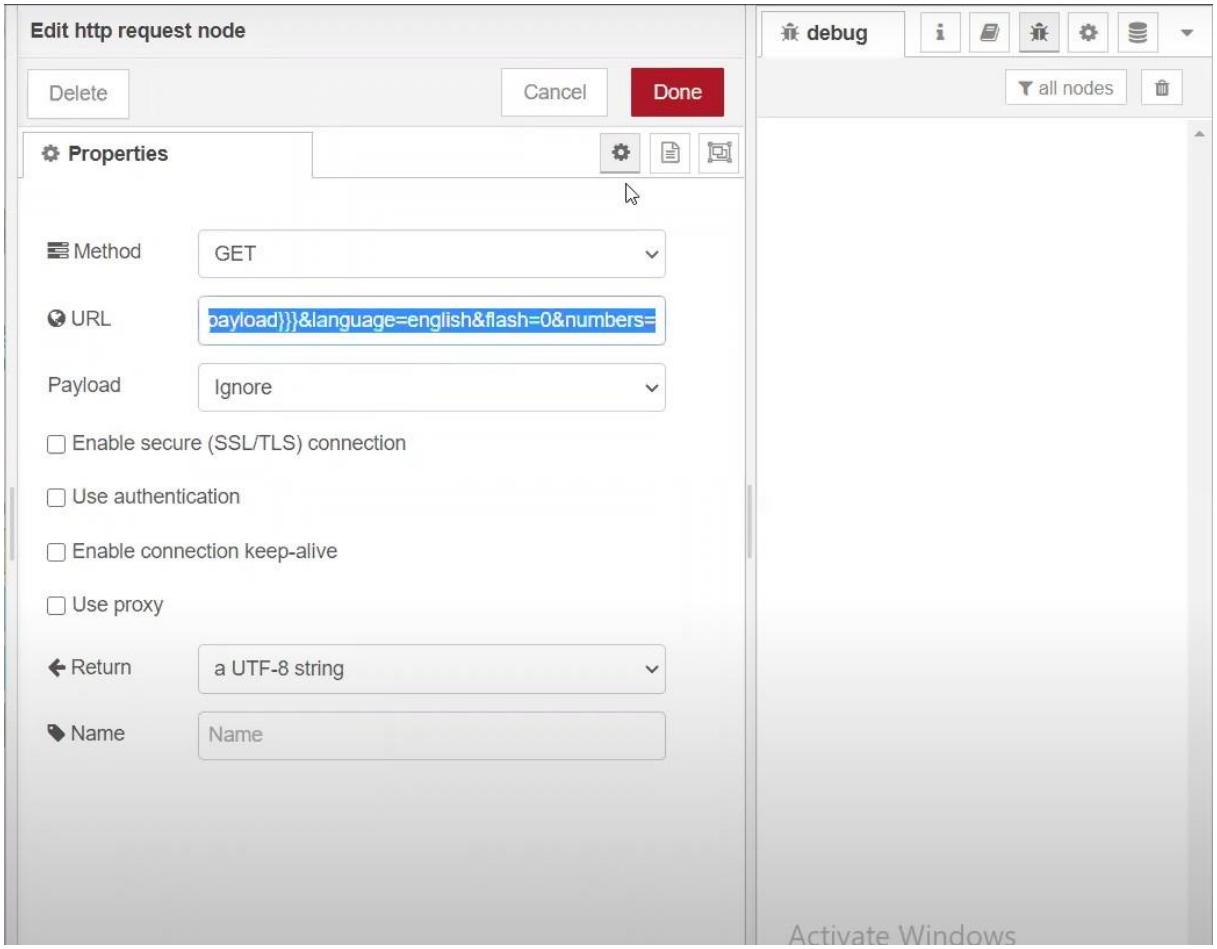


- Added code to get child location in python

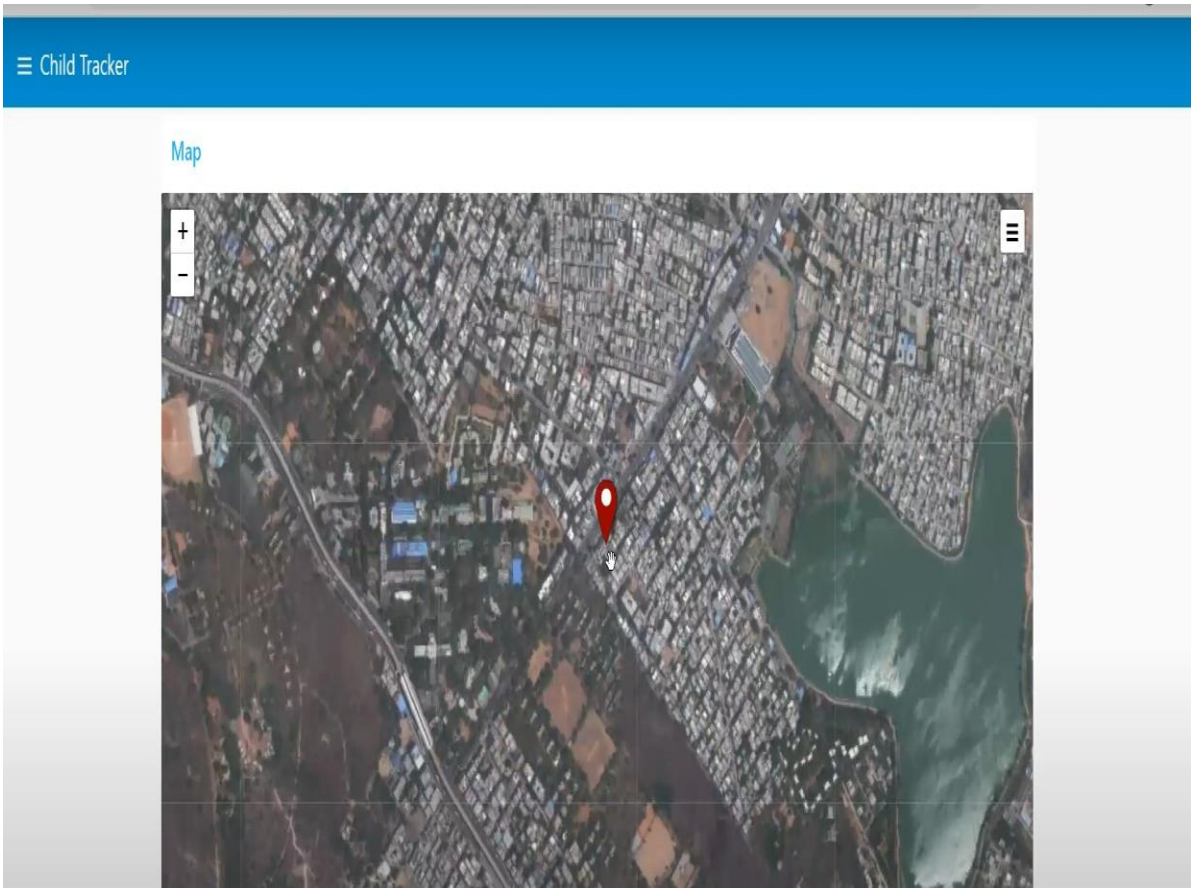
```
import json
import wiotp.sdk.device
import time

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 Geo Fence

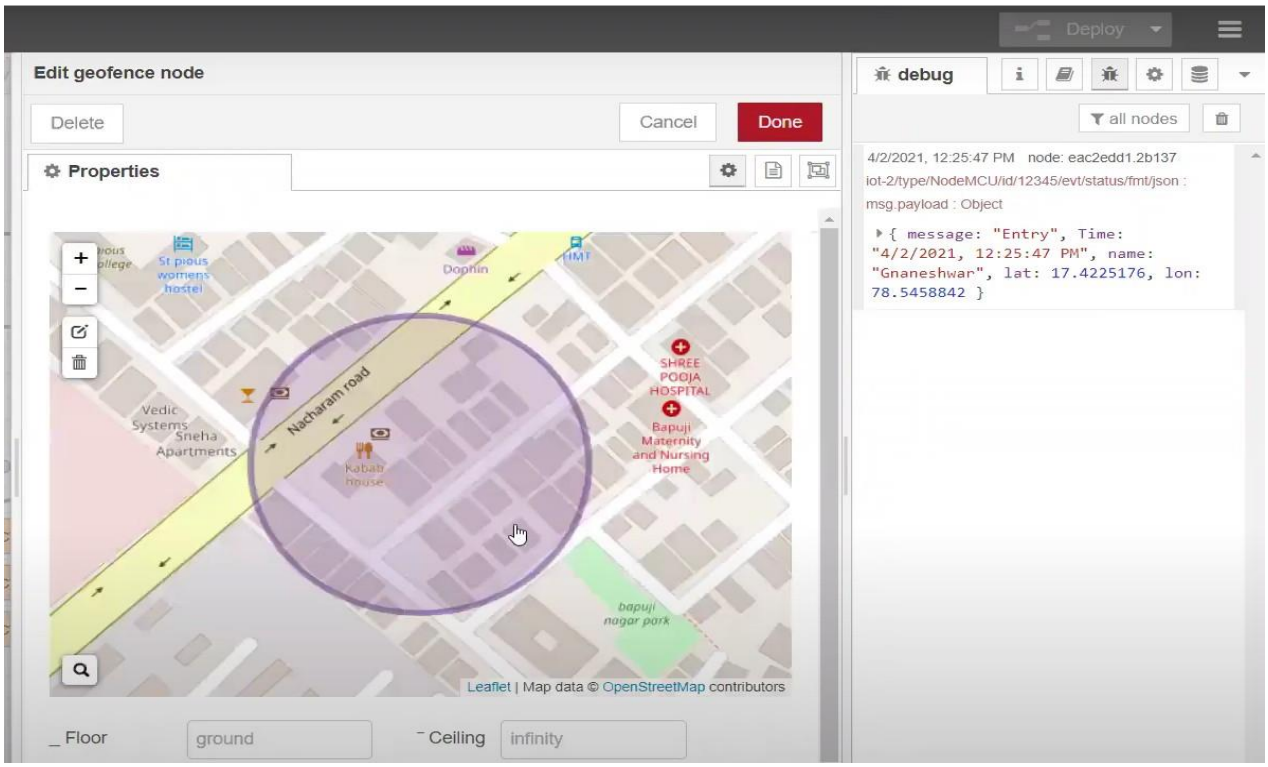
- Editing the HTTP Request URL



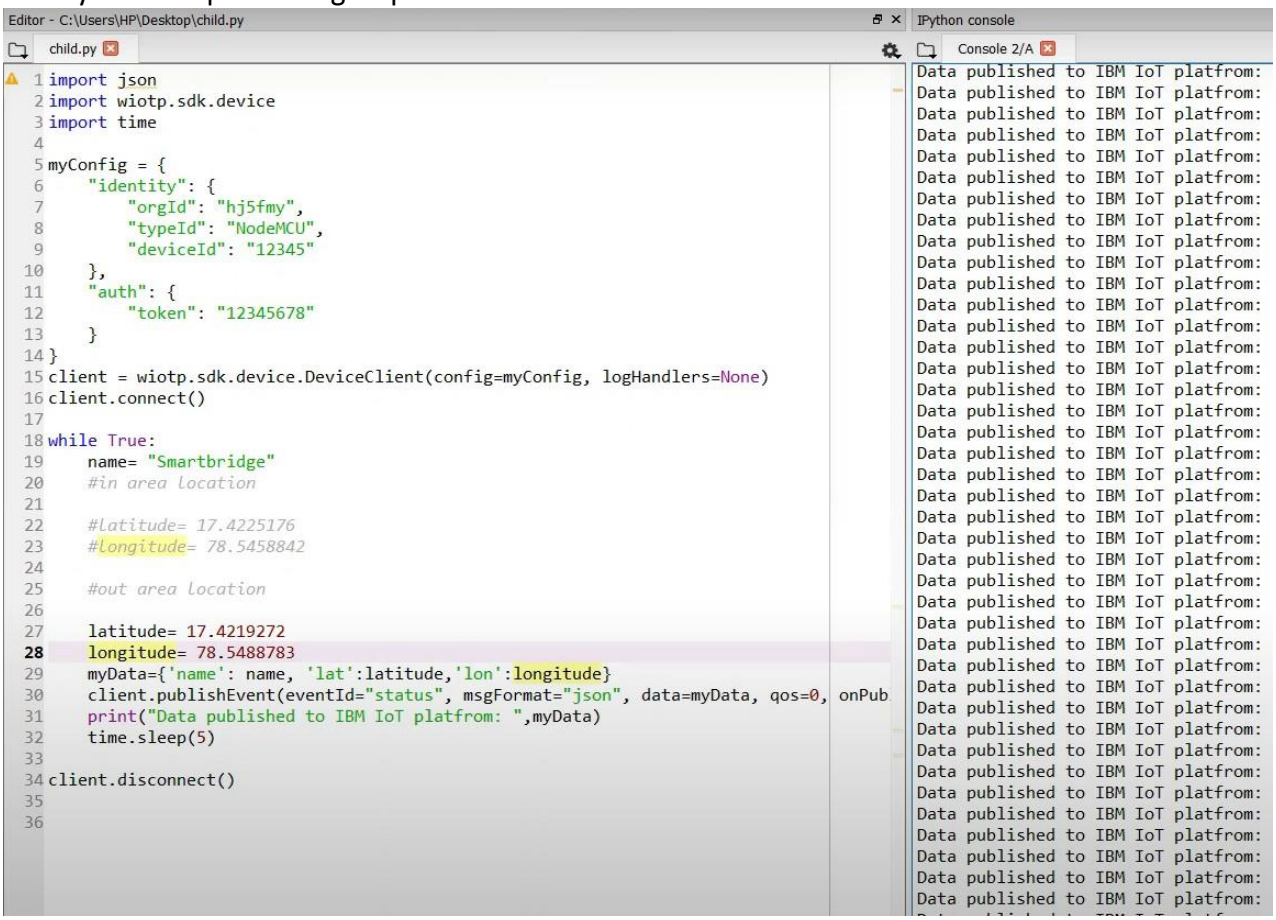
- Located the child



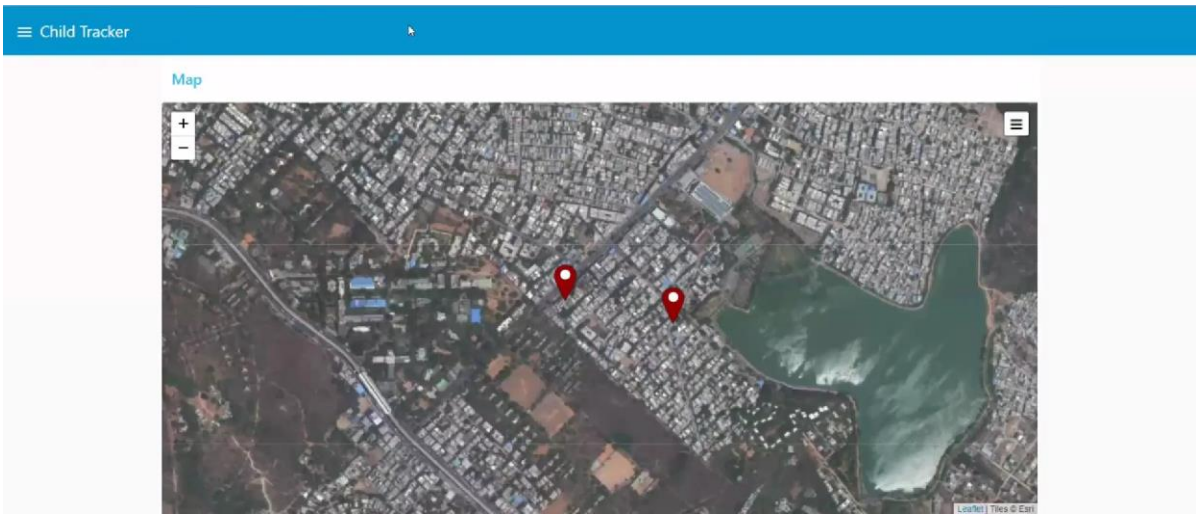
- Created the geofence node



- Python script sending requests to IBM Cloud



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



Result: Successfully developed the web application using Node-RED