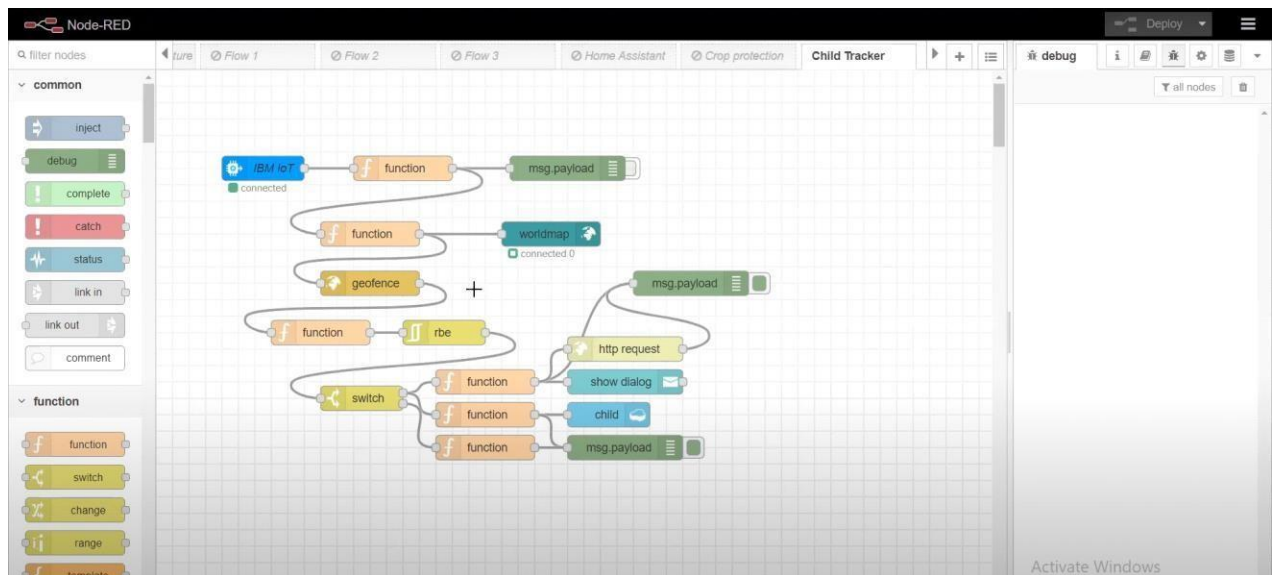


## Develop A Web Application Using Node-RED

|               |  |
|---------------|--|
| Team ID       | PNT2022TMID17348   |
| 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

```
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()

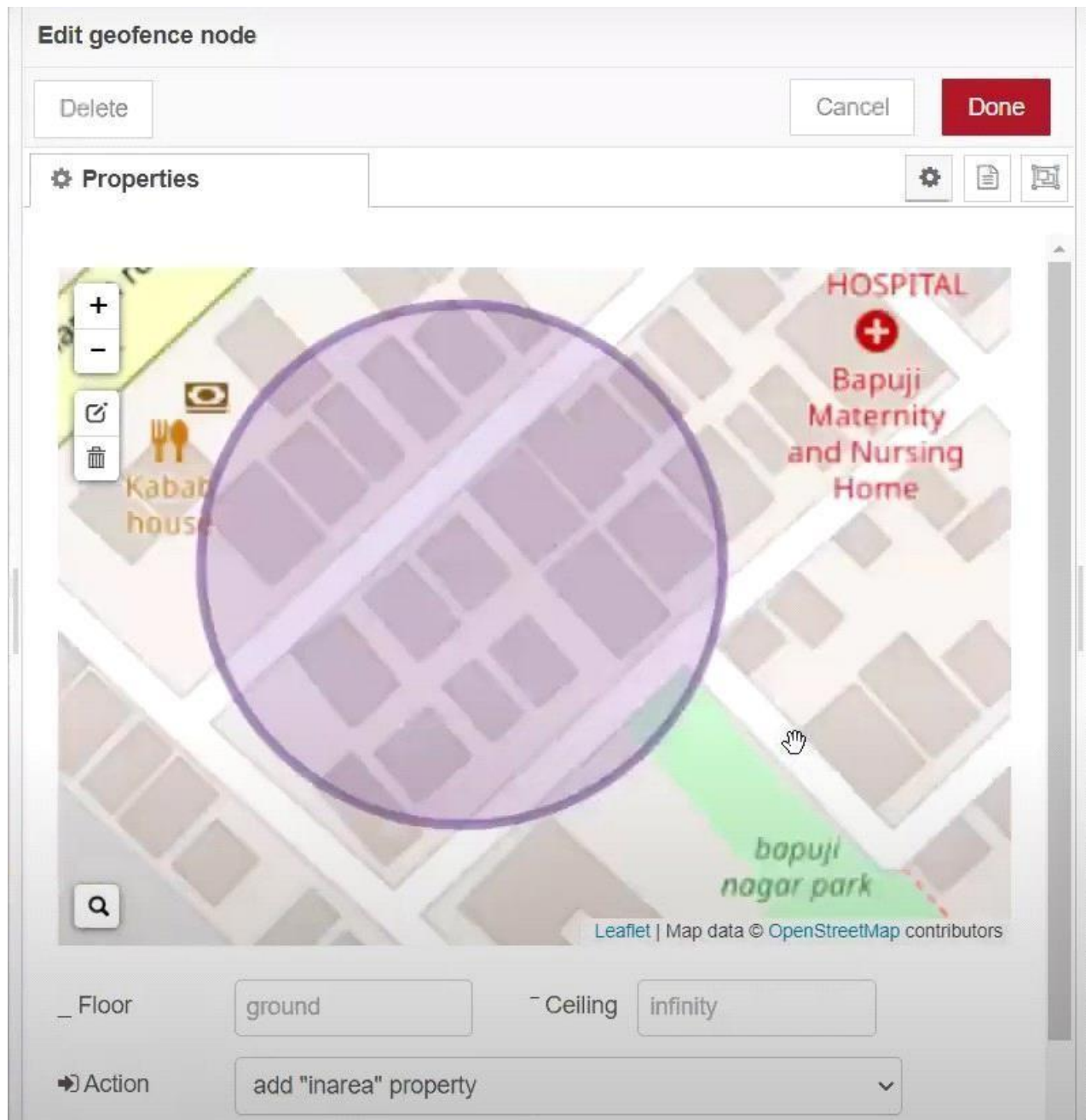
while True:
    name= "Smartbridge"
    #in area location

    latitude= 17.4225176
    longitude= 78.5458842

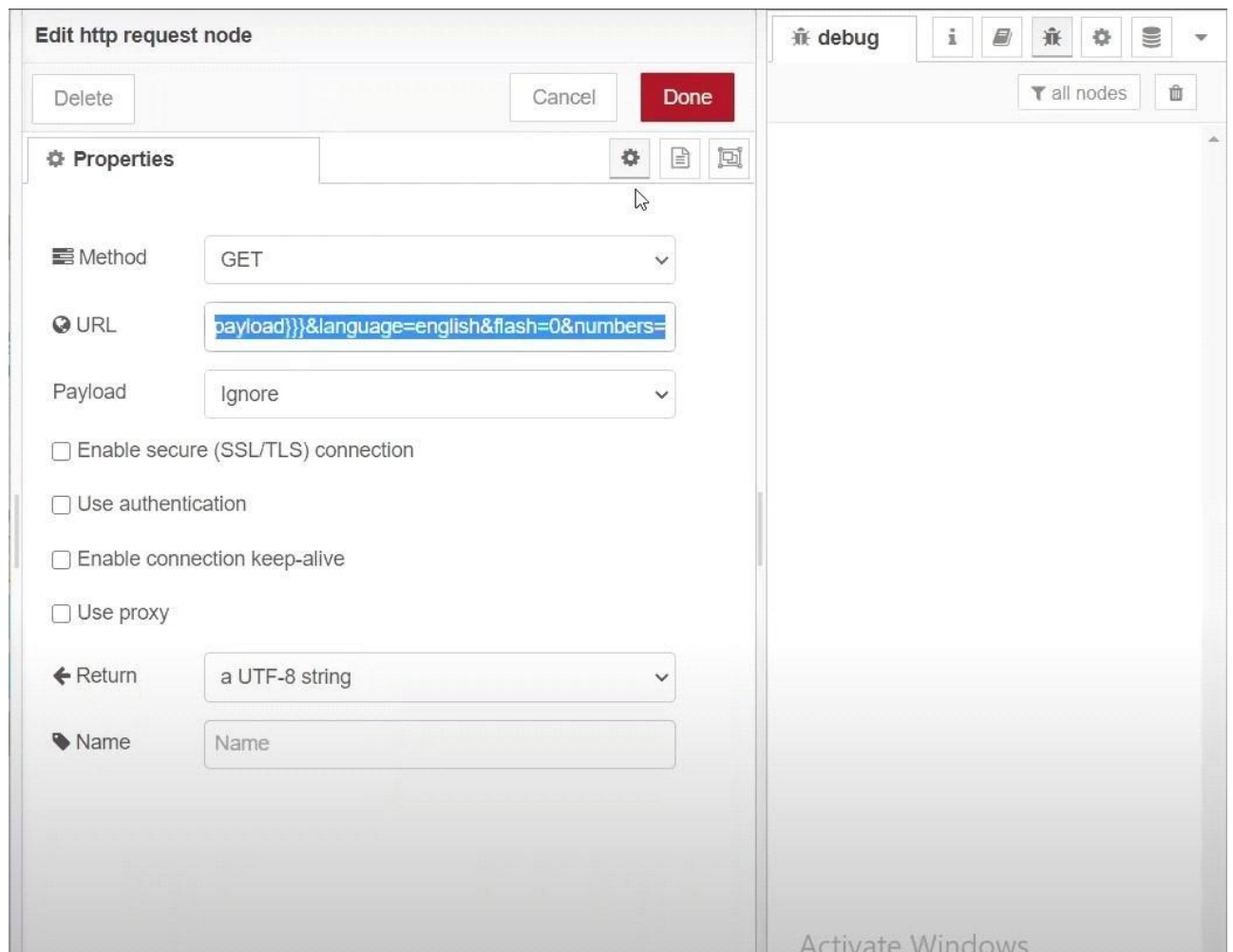
    #out area location

    #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)

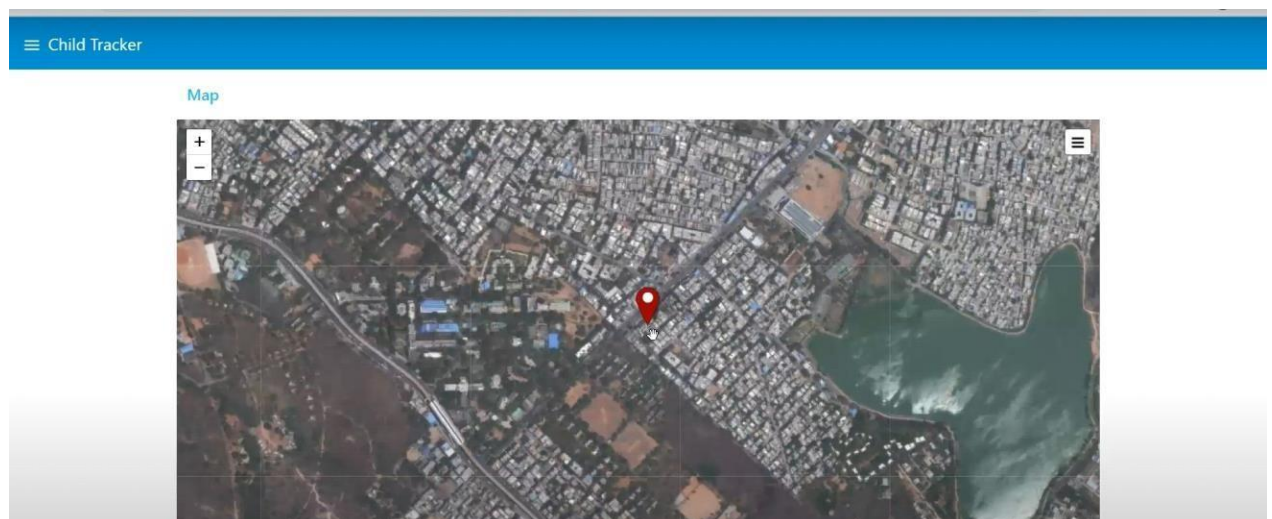
client.disconnect()
```

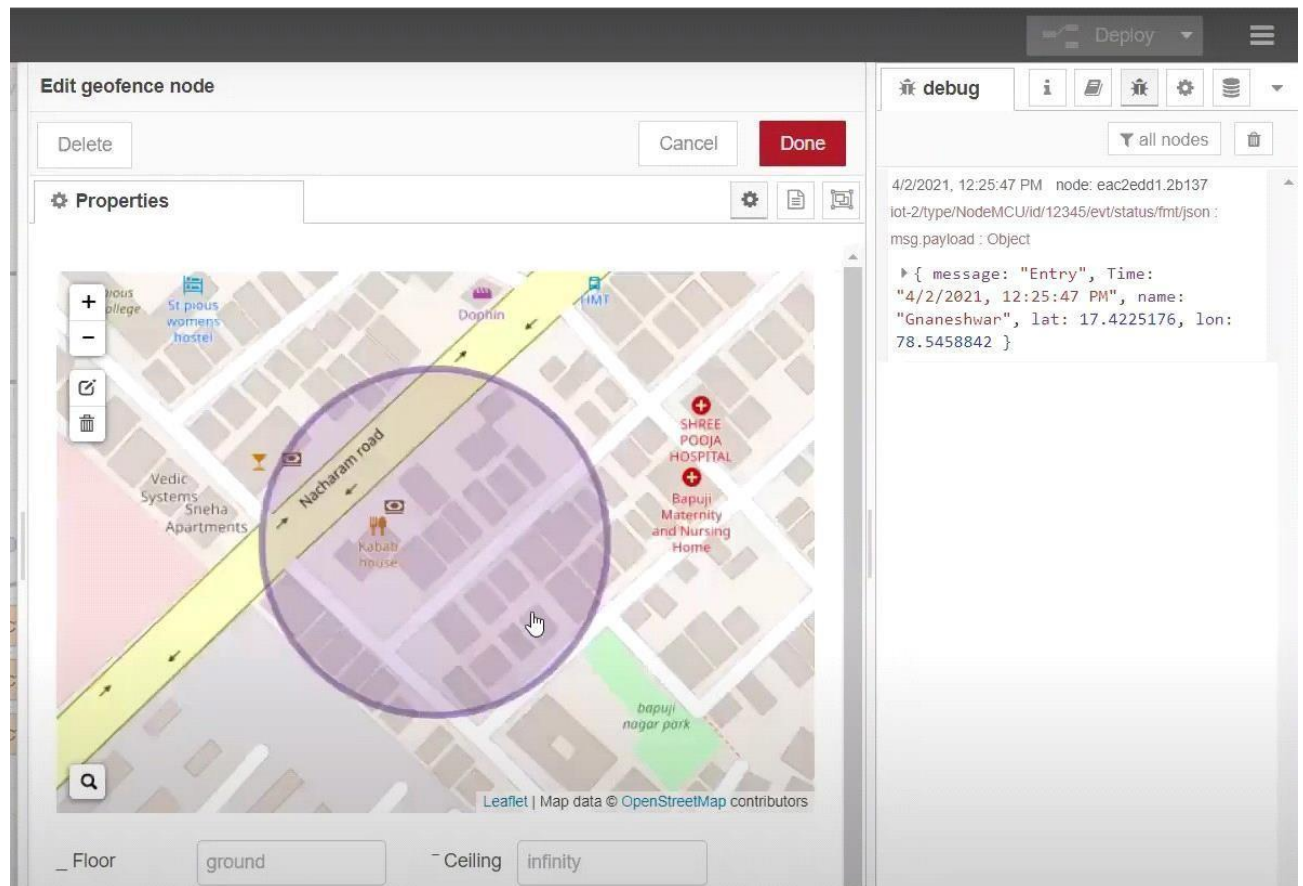


- Created the GeoFence



- Editing the HTTP Request URL
- Located the child





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





Result: Successfully developed a web application using Node-RED