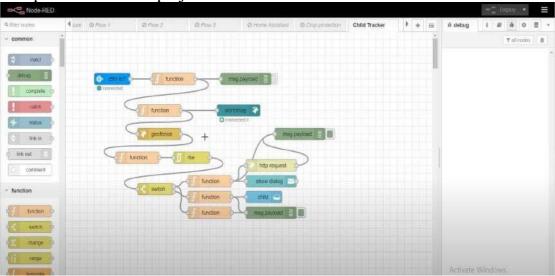
# Develop The Web Application Using Node-RED PNT2022TMID25493

1. To Develop the web application using Node-RED

#### Steps:

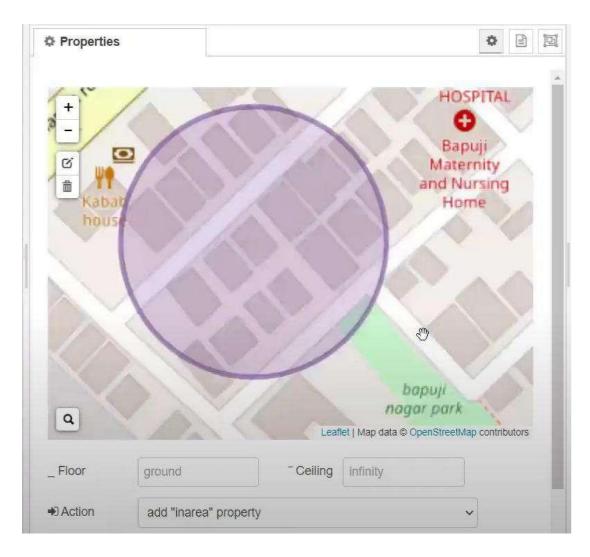
1. Open a Node-RED project



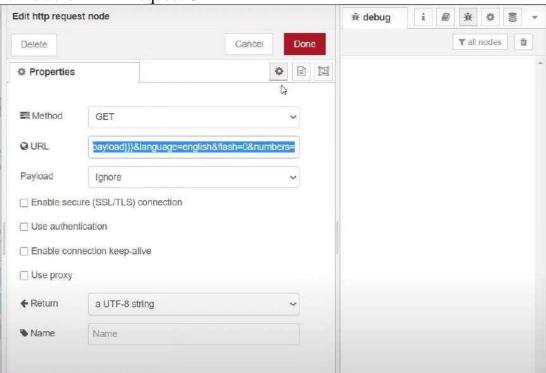
2. Add code to get child location in python

```
import json
import wiotp.sdk.device
import time
myConfig = [
     miig = {
  "identity": {
    "orgId": "hjsfmy",
    "typeId": "NodeMcU",
    "deviceId": "12345"
     ),
"auth": {
"toke
           "token": "12345678"
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
Thile 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()
```

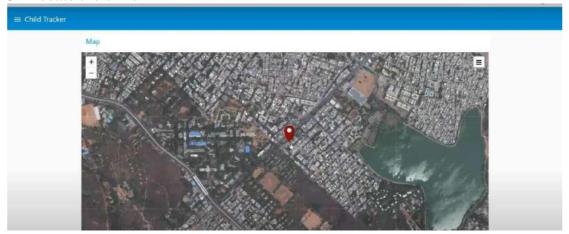
## 3. Create the Geofence



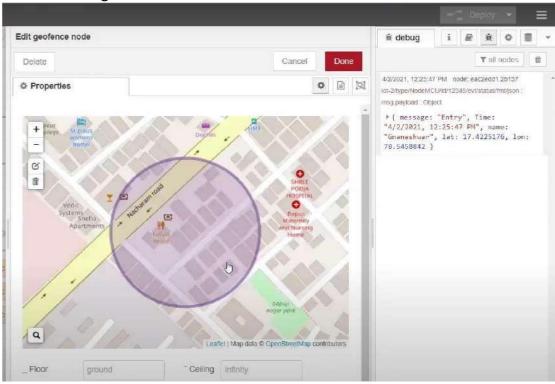
4. Edit the HTTP Request URL



## 5. Locate the child



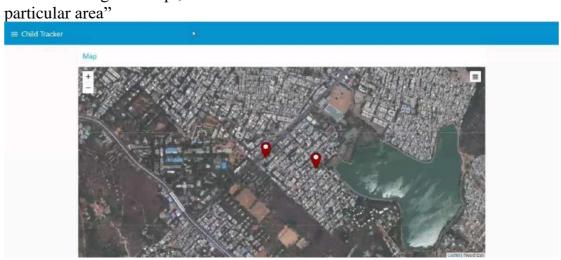
6. Create the geofence node



#### 7. Python script send requests to IBM Cloud

```
Editor - C:\Users\HP\Desktop\child.py
                                                                                         # X IPython console
                                                                                         Console 2/A 🔯
Ca child.py [3]
                                                                                             Data published to IBM IoT platfrom:
A 1 import ison
                                                                                             Data published to IBM IoT platfrom:
  2 import wiotp.sdk.device
                                                                                             Data published to IBM IoT platfrom:
  3 import time
                                                                                             Data published to IBM IoT platfrom:
                                                                                             Data published to IBM IoT platfrom:
  5 myConfig = {
                                                                                             Data published to IBM IoT platfrom:
        "identity": {
                                                                                             Data published to IBM IoT platfrom:
            "orgId": "hj5fmy",
                                                                                             Data published to IBM IoT platfrom:
            "typeId": "NodeMCU",
                                                                                             Data published to IBM IoT platfrom:
            "deviceId": "12345"
                                                                                             Data published to IBM IoT platfrom:
 10
        },
                                                                                             Data published to IBM IoT platfrom:
        "auth": {
 11
                                                                                             Data published to IBM IoT platfrom:
            "token": "12345678"
 12
                                                                                             Data published to IBM IoT platfrom:
 13
                                                                                             Data published to IBM IoT platfrom:
 14 }
                                                                                             Data published to IBM IoT platfrom:
 15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
                                                                                             Data published to IBM IoT platfrom:
 16 client.connect()
                                                                                             Data published to IBM IoT platfrom:
 17
                                                                                             Data published to IBM IoT platfrom:
 18 while True:
                                                                                             Data published to IBM IoT platfrom:
        name= "Smartbridge"
 39
                                                                                             Data published to IBM IoT platfrom:
 20
        #in area location
                                                                                             Data published to IBM IoT platfrom:
 21
                                                                                             Data published to IBM IoT platfrom:
 22
        #Latitude= 17.4225176
                                                                                             Data published to IBM IoT platfrom:
 23
        #Langitude= 78.5458842
                                                                                             Data published to IBM IoT platfrom:
 24
                                                                                             Data published to IBM IoT platfrom:
 25
        Hout area Location
                                                                                             Data published to IBM IoT platfrom:
 26
                                                                                             Data published to IBM IoT platfrom:
 27
        latitude= 17.4219272
                                                                                             Data published to IBM IoT platfrom:
 28
        longitude= 78.5488783
                                                                                             Data published to IBM IoT platfrom:
        myData={'name': name, 'lat':latitude,'lon':longitude}
                                                                                             Data published to IBM IoT platfrom:
        client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPub
                                                                                             Data published to IBM IoT platfrom:
 31
        print("Data published to IBM IoT platfrom: ",myData)
                                                                                             Data published to IBM IoT platfrom:
        time.sleep(5)
                                                                                             Data published to IBM IoT platfrom:
                                                                                             Data published to IBM IoT platfrom:
 34 client.disconnect()
                                                                                             Data published to IBM IoT platfrom:
                                                                                             Data published to IBM IoT platfrom:
 36
                                                                                             Data published to IBM IoT platfrom:
                                                                                             Data published to IBM IoT platfrom:
                                                                                             Data published to IBM IoT platfrom:
                                                                                             Data published to IBM IoT platfrom:
```

8. After running the script, the web UI shows "Person is not in the



## **Conclusion:**

Developed the web application using Node-RED Successfully