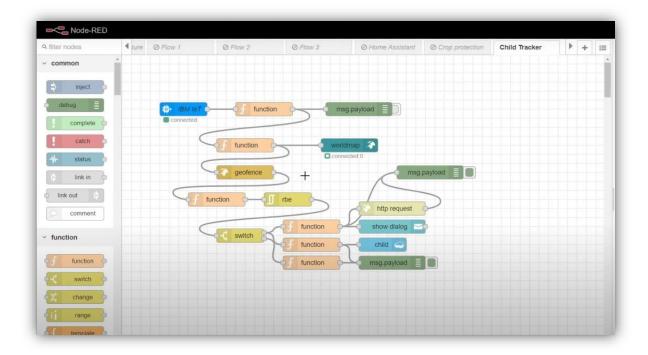
# Develop The Web Application Using Node-RED

Date	15/11/2022
Team ID	PNT2022TMID33201
Project Name	Project-IoT Based Safety Gadget For
	Child
	Safety Monitoring & Notification
MaximumMarks	2 Marks

#### Aim:

To Develop the web application using Node-RED platform

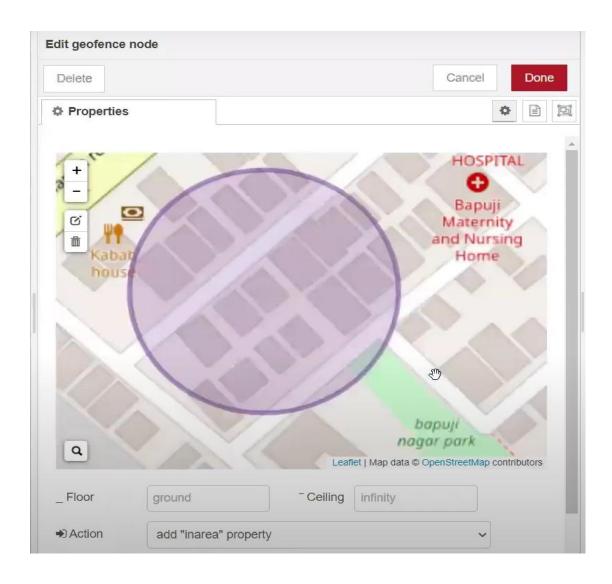


### **Steps to be Followed:**

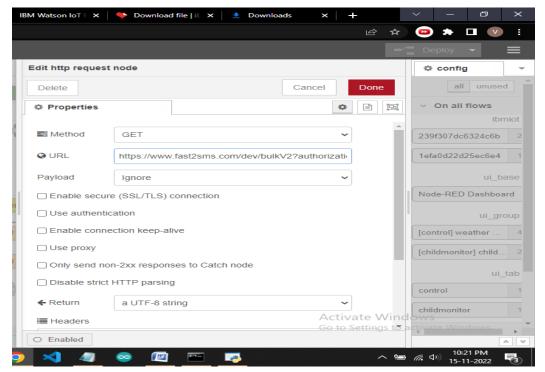
- Open a Node-RED project
- Add source code to get child location in python

```
script.py - C:\Users\McVin\script.py (3.7.9)
File Edit Format Run Options Window Help
 import json
 import time
 import wiotp.sdk.device
myconfig = {
  "identity": {
  "orgId": "af19wm",
  "typeId": "12345678",
  "deviceId": "12345678"
},
"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 platform :", myData) time.sleep(3)
 client.disconnect()
Type here to search
                                                         O # 🔚 🗓 🚺 🥥 💢 🐠 🚳 🖺 🔄
```

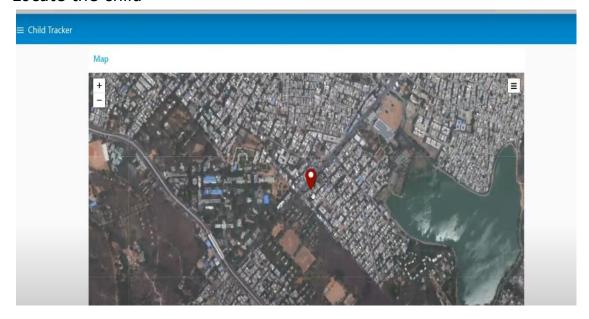
# Created the GeoFence



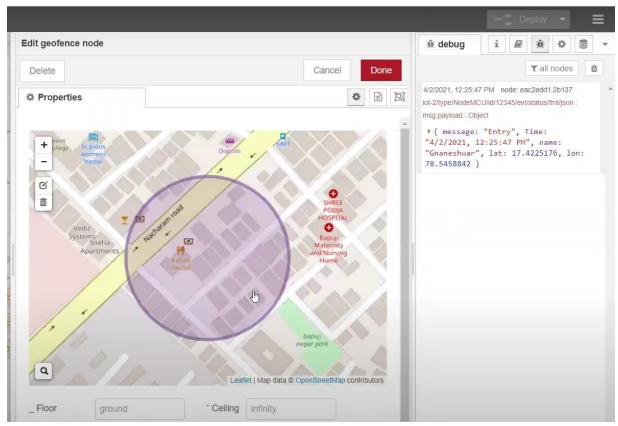
# • Edit the HTTP Request URL



• Locate the child



Create the geofence node



Python script sending requests to IBM Cloud

```
Editor - C:\Users\HP\Desktop\child.py
                                                                                                                                8 × Python console
                                                                                                                                 Console 2/A CO
child.py
    1 import json
                                                                                                                                      Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
    2 import wiotp.sdk.device
    3 import time
                                                                                                                                      Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
    5 myConfig = {
           "identity": {
                                                                                                                                       Data published to IBM IoT platfrom:
           "orgid": "af19wm", "typeId": "12345678",
                                                                                                                                      Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
            "deviceId": "12345678"
                                                                                                                                      Data published to IBM IOT platfrom:
Data published to IBM IOT platfrom:
Data published to IBM IOT platfrom:
            "auth": {
           "token": "12345678"
                                                                                                                                       Data published to IBM IoT platfrom:
                                                                                                                                      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:
Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
  18 while True:
            name= "Smartbridge"
                                                                                                                                      Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
            #in area Locatio
            #latitude= 17.4225176
                                                                                                                                      Data published to IBM IoT platfrom:
            #longitude= 78.5458842
                                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                                       Data published to IBM IoT platfrom:
            #out area Location
                                                                                                                                       Data published to IBM IoT platfrom:
                                                                                                                                      Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
            latitude= 17,4219272
           longitude= 78.5488783

myData=('name': name, 'lat':latitude, 'lon':longitude)

client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPub

print("Data published to IBM IoT platfrom: ",myData)
  28
                                                                                                                                       Data published to IBM IoT platfrom:
                                                                                                                                      Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
                                                                                                                                       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:
                                                                                                                                       Data published to IBM IoT platfrom:
                                                                                                                                       Data published to IBM IoT platfrom:
                                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                                      Data published to IBM IoT platfrom:
```

• After running the script, the web UI shows "Person is not in the particular area"



### **Result:**

Thus to develop a web application using Node-RED to find the location of the child has been created successfully.