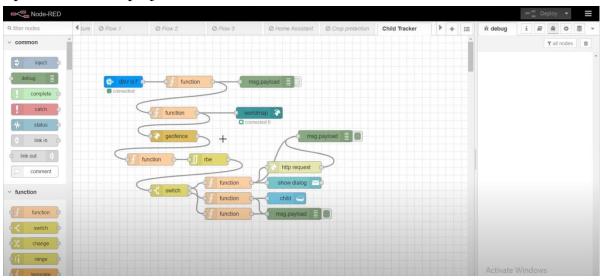
## TEAM ID: PNT2022TMID16119 DEVELOP A WEB APPLICATION USING NODE-RED

## STEPS TO BE FOLLOWED:

• Open Node-RED project



• Add 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
           #latitude= 17.4219272

#longitude= 78.5488783

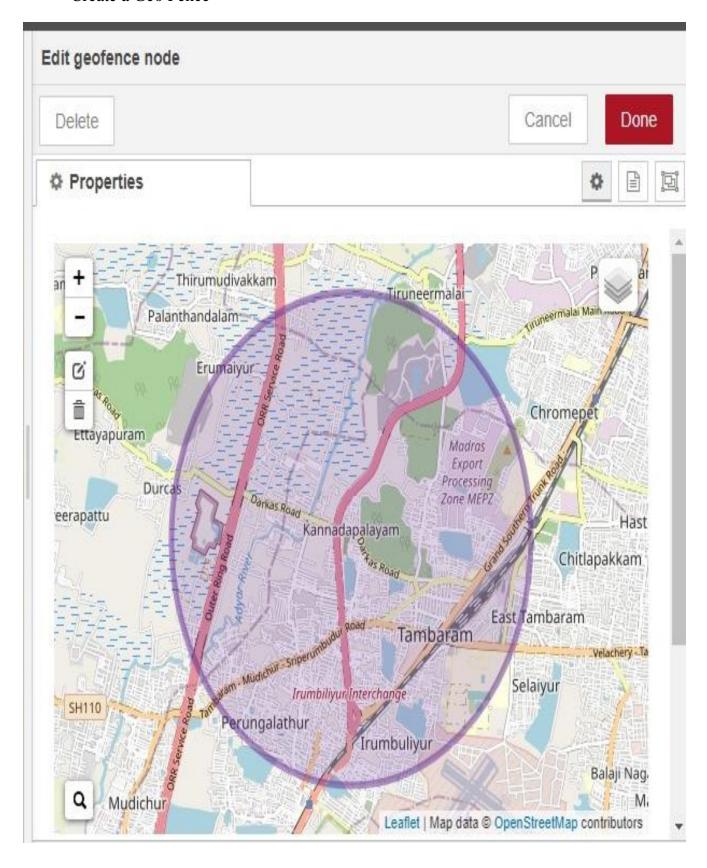
myData={'name': name, 'lat':latitude, 'lon':longitude}

client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)

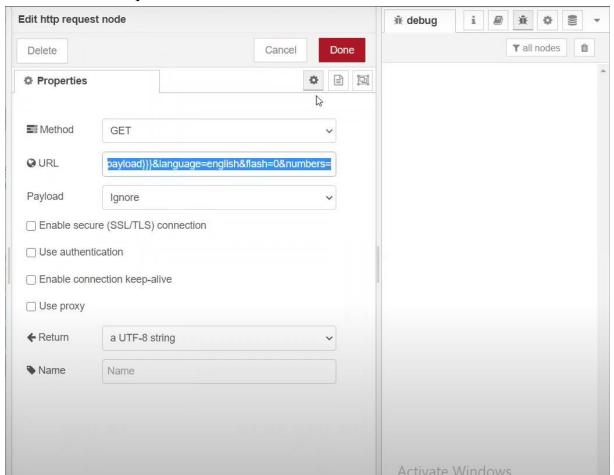
print("Data published to IBM IoT platfrom: ",myData)

time electr(5)
           time.sleep(5)
client.disconnect()
```

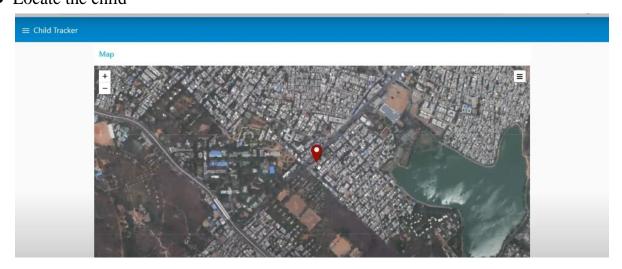
## • Create a Geo Fence



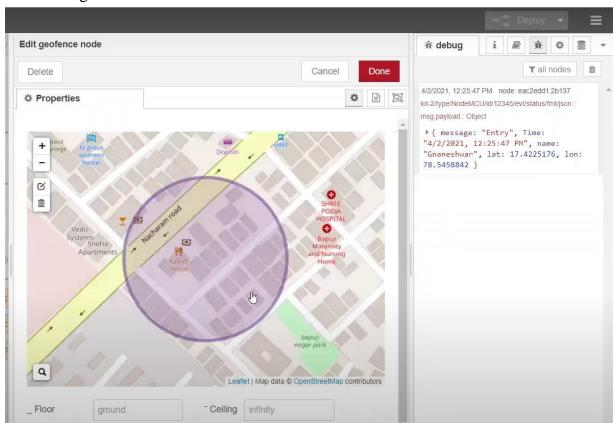
• Edit the HTTP Request URL



## • Locate the child



• Create the geofence node



Python script sends request to IBM Cloud

```
child.py
                                                                                                      Console 2/A 🔯
                                                                                                      Data published to IBM IoT platfrom:
▲ 1 import json
                                                                                                      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 = {
         mrig = {
"identity": {
    "orgId": "hj5fmy",
    "typeId": "NodeMCU",
    "deviceId": "12345"
                                                                                                      Data published to IBM IoT platfrom:
                                                                                                      Data published to IBM IoT platfrom:
          auth": {
                                                                                                      Data published to IBM IoT platfrom:
              "token": "12345678"
                                                                                                      Data published to IBM IoT platfrom:
                                                                                                      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:
 18 while True:
19 name= "Smartbridge"
                                                                                                      Data published to IBM IoT platfrom:
                                                                                                      Data published to IBM IoT platfrom:
 20
        #in area Locatio
                                                                                                      Data published to IBM IoT platfrom:
                                                                                                      Data published to IBM IoT platfrom:
         #Latitude= 17.4225176
                                                                                                      Data published to IBM IoT platfrom:
 23
         #longitude= 78.5458842
                                                                                                      Data published to IBM IoT platfrom:
 24
                                                                                                      Data published to IBM IoT platfrom:
 25
         #out area location
                                                                                                      Data published to IBM IoT platfrom:
                                                                                                      Data published to IBM IoT platfrom:
         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}
        client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPub print("Data published to IBM IoT platfrom: ",myData) time.sleep(5)
                                                                                                      Data published to IBM IoT platfrom:
                                                                                                      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:
```

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

