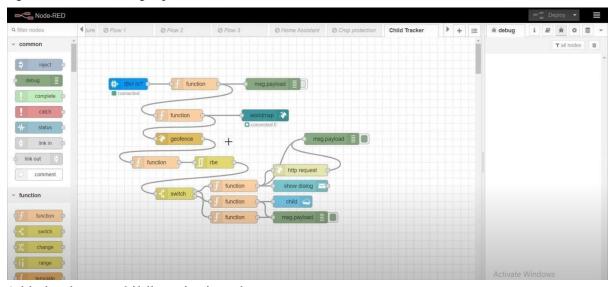
### Develop AWebApplicationUsingNode-RED

Date	15 November 2022
TeamID	PNT2022TMID48398
ProjectName	Project-IoTBasedSafetyGadgetForChild SafetyMonitoring& Notification
MaximumMarks	2 Marks
Submitted by	N.Rathimalar

#### StepsFollowed:

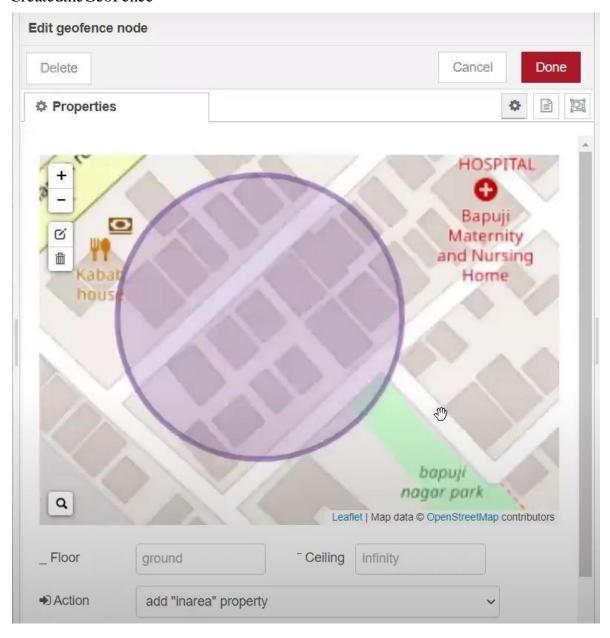
• OpenedaNode-REDproject



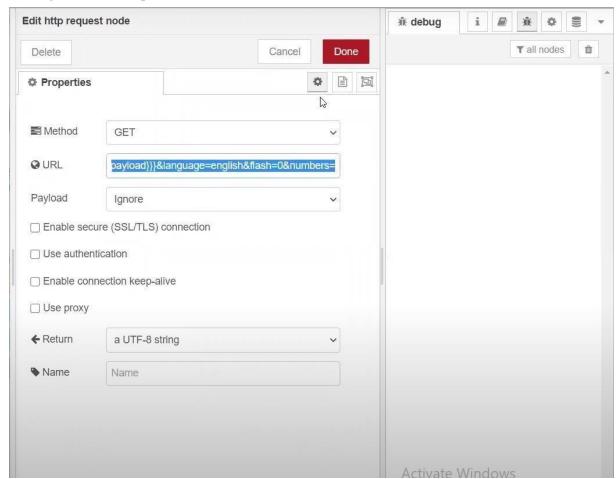
Addedcodetogetchildlocationinpython

```
import wiotp.sdk.device
import time
myConfig = {
    mid = {
  "identity": {
    "orgId": "hj5fmy",
    "typeId": "NodeMCU",
    "deviceId": "12345"
     "auth": {
         "token": "12345678"
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
         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()
```

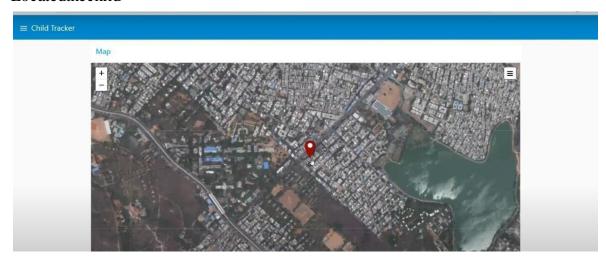
## • CreatedtheGeoFence



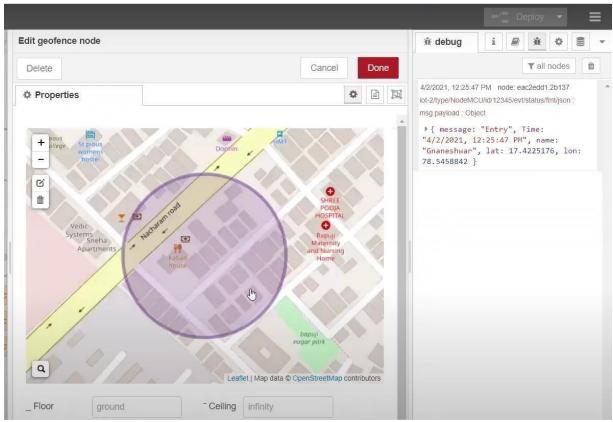
# $\bullet \ \ Editing the HTTPR equest URL$



#### • Locatedthechild



• Createdthegeofencenode



• PythonscriptsendingrequeststoIBMCloud

```
₽ × IPython console

child.py
                                                                                                                 Console 2/A 🔯
                                                                                                                 Data published to IBM IoT platfrom:
 1 import json
                                                                                                                 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:
Data published to IBM IoT platfrom:
   5 myConfig = {
          "identity": {
    "orgId": "hj5fmy",
    "typeId": "NodeMCU"
    "deviceId": "12345"
                                                                                                                 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:
            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:
          #in area location
                                                                                                                 Data published to IBM IoT platfrom:
  21
22
                                                                                                                 Data published to IBM IoT platfrom:
          #Latitude= 17.4225176
                                                                                                                 Data published to IBM IoT platfrom:
          #longitude= 78.5458842
                                                                                                                 Data published to IBM IoT platfrom:
  24
25
                                                                                                                 Data published to IBM IoT platfrom:
          #out area location
                                                                                                                 Data published to IBM IoT platfrom:
                                                                                                                 Data published to IBM IoT platfrom:
  27
28
          latitude= 17.4219272
         latitude= 17.4219272
longitude= 78.5488783
myData={\text{"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)
                                                                                                                 Data published to IBM IoT platfrom:
                                                                                                                  Data published to IBM IoT platfrom:
                                                                                                                 Data published to IBM IoT platfrom:
  30
                                                                                                                 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:
```

• Afterrunningthescript, the webUIshows "Personis not in the particular area"



Result: Successfully developed a we bapplication using Node-RED