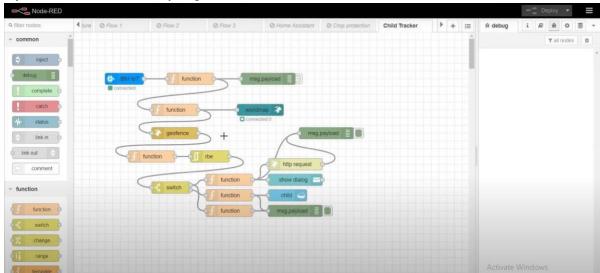
Team ID: PNT2022TMID45173

Develop The Web Application Using Node-RED

Aim: Develop the webapplication using NodeREDS teps Follow ed:

• OpenedaNode-REDproject

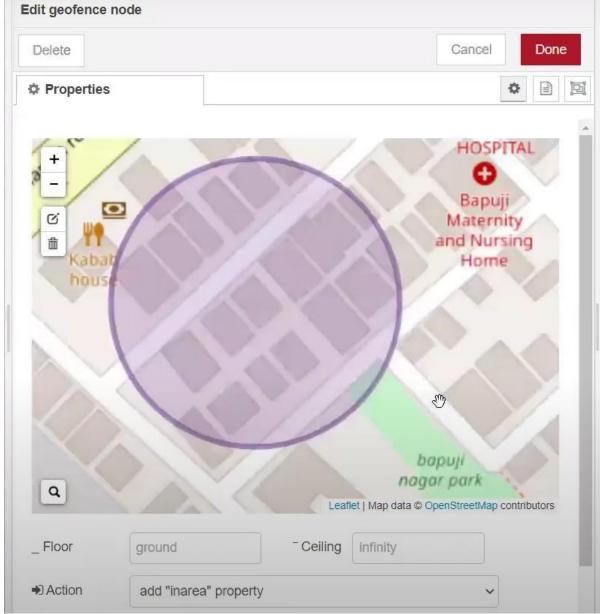


Addedcodetogetchildlocationinpython

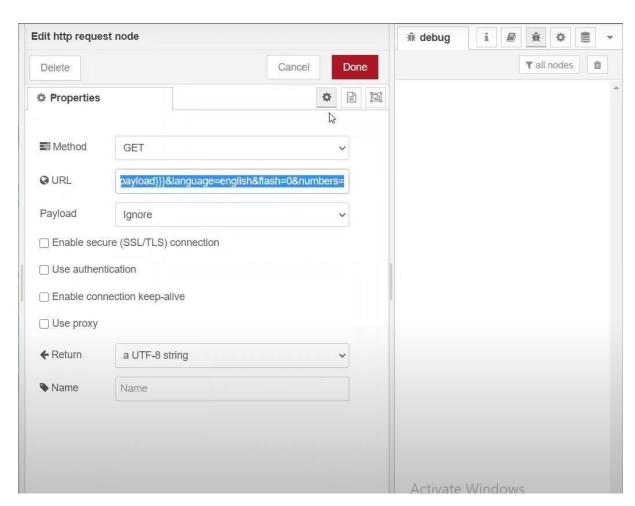
```
import json
import wiotp.sdk.device
import time
myConfig = {
    "identity": {
    "orgId": "hj5fmy",
    "typeId": "NodeMCU",
        "deviceId": "12345"
    "auth": {
        "token": "12345678"
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
While True: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

CreatedtheGeoFence

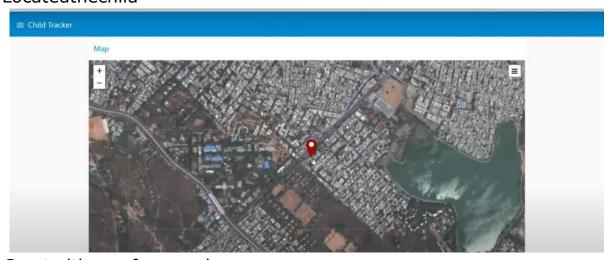
Edit geofence node



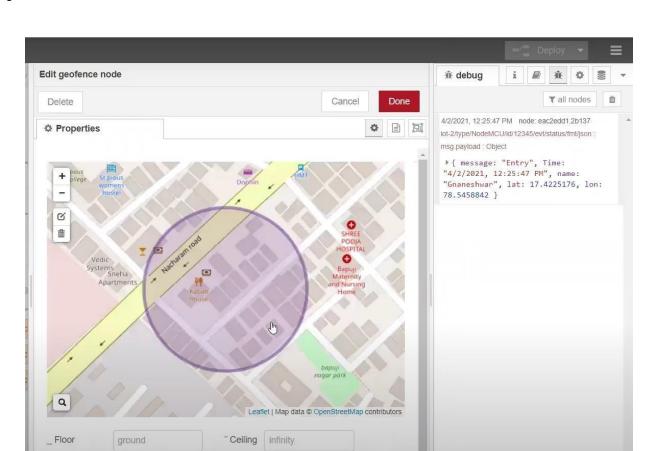
 ${\sf Editing the HTTP Request URL}$



• Locatedthechild

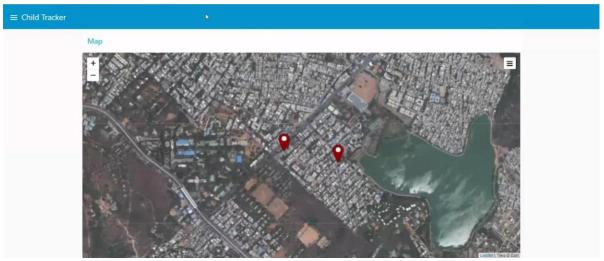


Createdthegeofencenode



PythonscriptsendingrequeststoIBMCloud

```
Console 2/A 🗵
child.py
                                                                                             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:
   myConfig = {
        "identity": {
    "orgId": "hj5fmy",
    "typeId": "NodeMCU",
    "deviceId": "12345"
                                                                                             Data published to IBM IoT platfrom:
                                                                                             Data published to IBM IoT platfrom:
 10
                                                                                             Data published to IBM IoT platfrom:
         'auth": {
                                                                                             Data published to IBM IoT platfrom:
 12
             "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:
                                                                                             Data published to IBM IoT platfrom:
        name= "Smartbridge"
                                                                                             Data published to IBM IoT platfrom:
        #in area location
                                                                                             Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
        #Latitude= 17.4225176
 22
                                                                                             Data published to IBM IoT platfrom:
        #longitude= 78.5458842
                                                                                             Data published to IBM IoT platfrom:
 24
                                                                                             Data published to IBM IoT platfrom:
 25
26
        #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
                                                                                             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:
```



Result: Successfully developed the web application using Node-RED