

## Develop a web application using Node-Red Services

Date: 19-11-2022

Team Id: PNT2022TMID19657

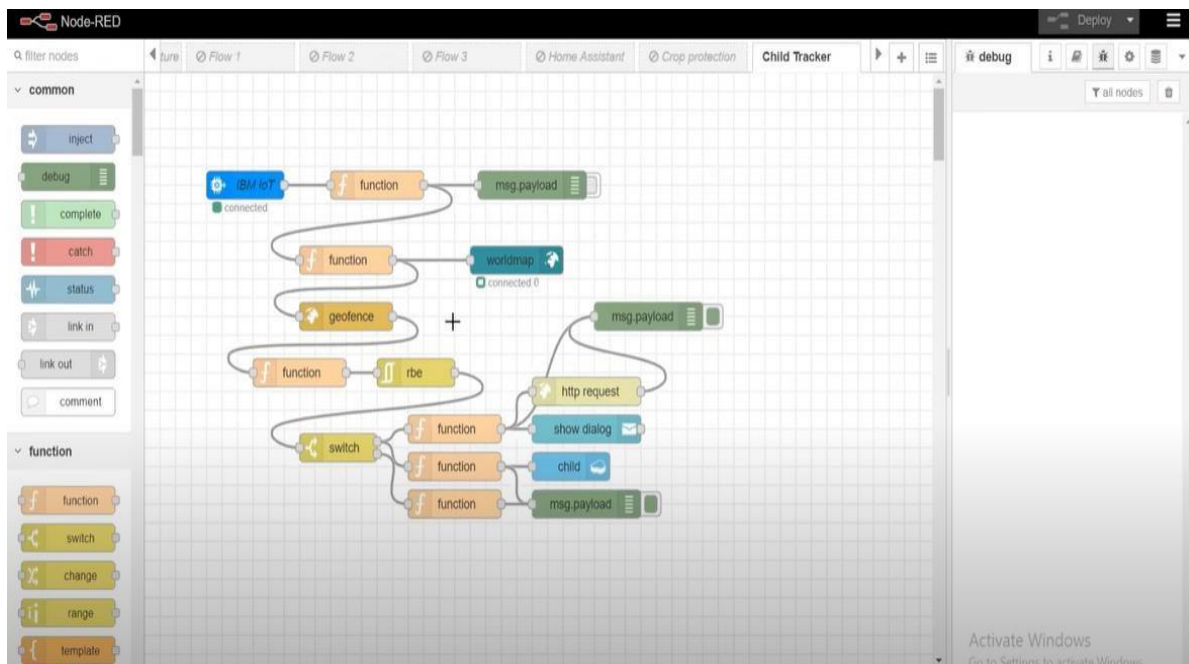
Project Name: IoT Based Safety Gadget for Child Safety Monitoring and Notification

Maximum marks: 4

***IoT Based Safety Gadget for Child Safety Monitoring and Notification:***

***Develop a web application using Node-Red Services Steps:***

1. Open a Node-Red Project:



## 2. Add code to get location in Python:

```
import json
import wiotp.sdk.device
import time

myConfig = {
    "identify": {
        "orgId": "fy2vxg",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    name = "Sri Eshwar College of Engineering"
    #in area location

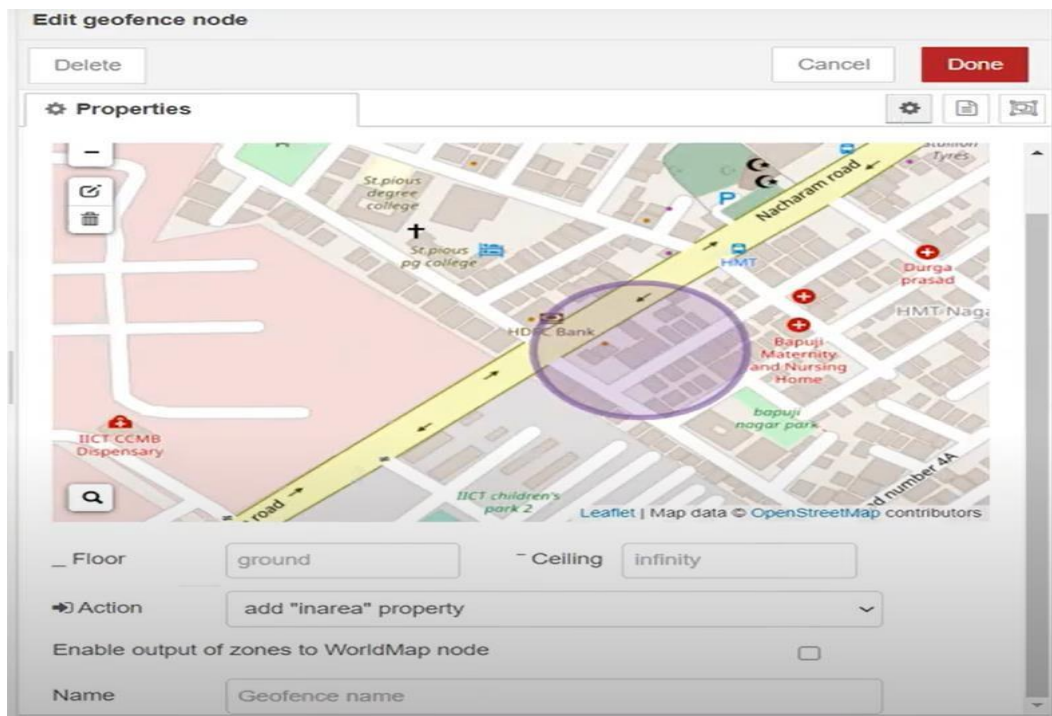
    #latitude= 17.4225176
    #longitude= 78.5458842

    #out area location

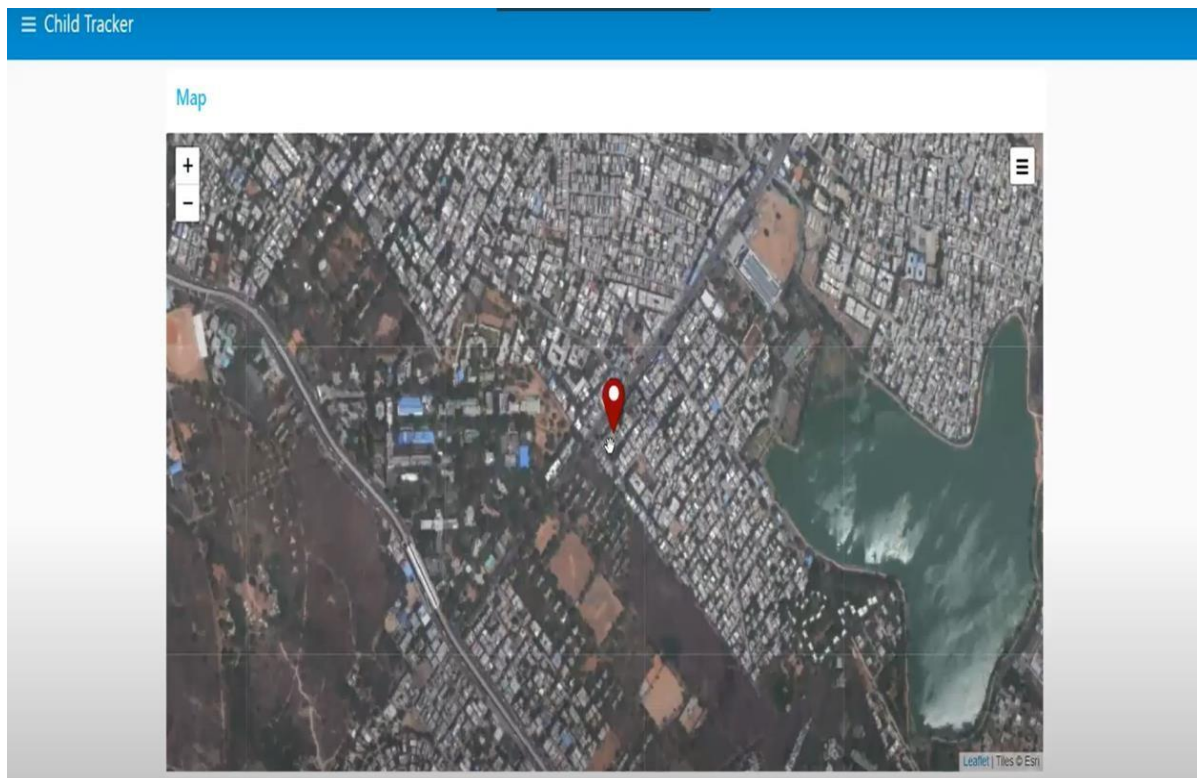
    latitude= 17.4219272
    longitude= 78.5488783
    myData={'name':name,'lat':latitude,'lon':longitude}
    client.publishEvent(eventId="Status",msgformat="json",data=myData,,qos=0,onPublish=None)
    print("Data published to IM IoT platform:",myData)
    time.sleep(5)

client.disconnect
```

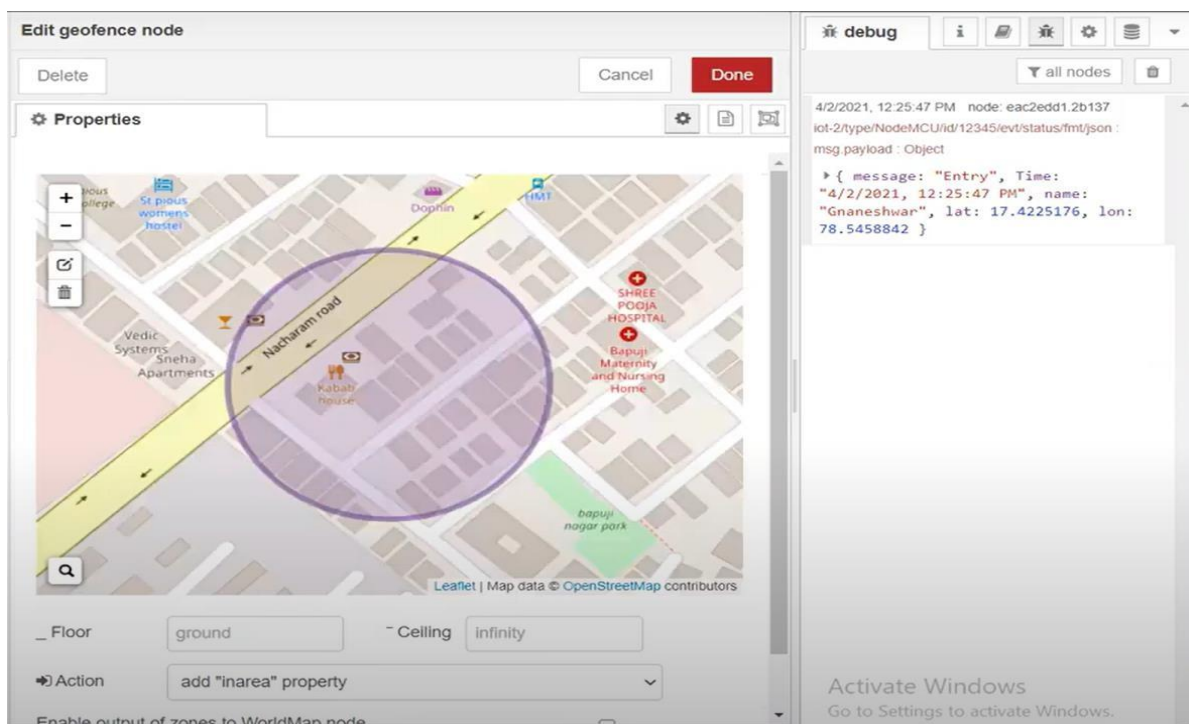
## 3. Create the Geofence:



#### 4. Locate the place:




#### 5. Create the Geofence:



```
child.py 1
1 import json
2 import wiopb.sdk.device
3 import time
4
5 myConfig = {
6     "identity": {
7         "orgId": "hj5fmy",
8         "typeId": "NodeMCU",
9         "deviceId": "12345"
10     },
11     "auth": {
12         "token": "12345678"
13     }
14 }
15 client = wiopb.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
16 client.connect()
17
18 while True:
19     name = "Smartbridge"
20     # in area location
21
22     #latitude= 17.4225176
23     #longitude= 78.5458842
24
25     #out area location
26
27     latitude= 17.4219272
28     longitude= 78.5488783
29     myData = {'name': name, 'lat': 'latitude', 'lon': 'longitude'}
30     client.publishEvent(eventId='status', msgFormat='json', data=myData, qos=0, onPub
31     print("Data published to IBM IoT platform: ", myData)
32     time.sleep(5)
33
34 client.disconnect()
35
36
```

Child Tracker

Map



A satellite map view of a city area, likely San Francisco, showing a dense urban landscape with a large body of water (San Francisco Bay) on the right. Two red location pins are placed on the map, indicating specific locations. The map interface includes a zoom control (+/-) in the top left and a menu icon in the top right.

Developed the web application using Node-Red Successfully.