

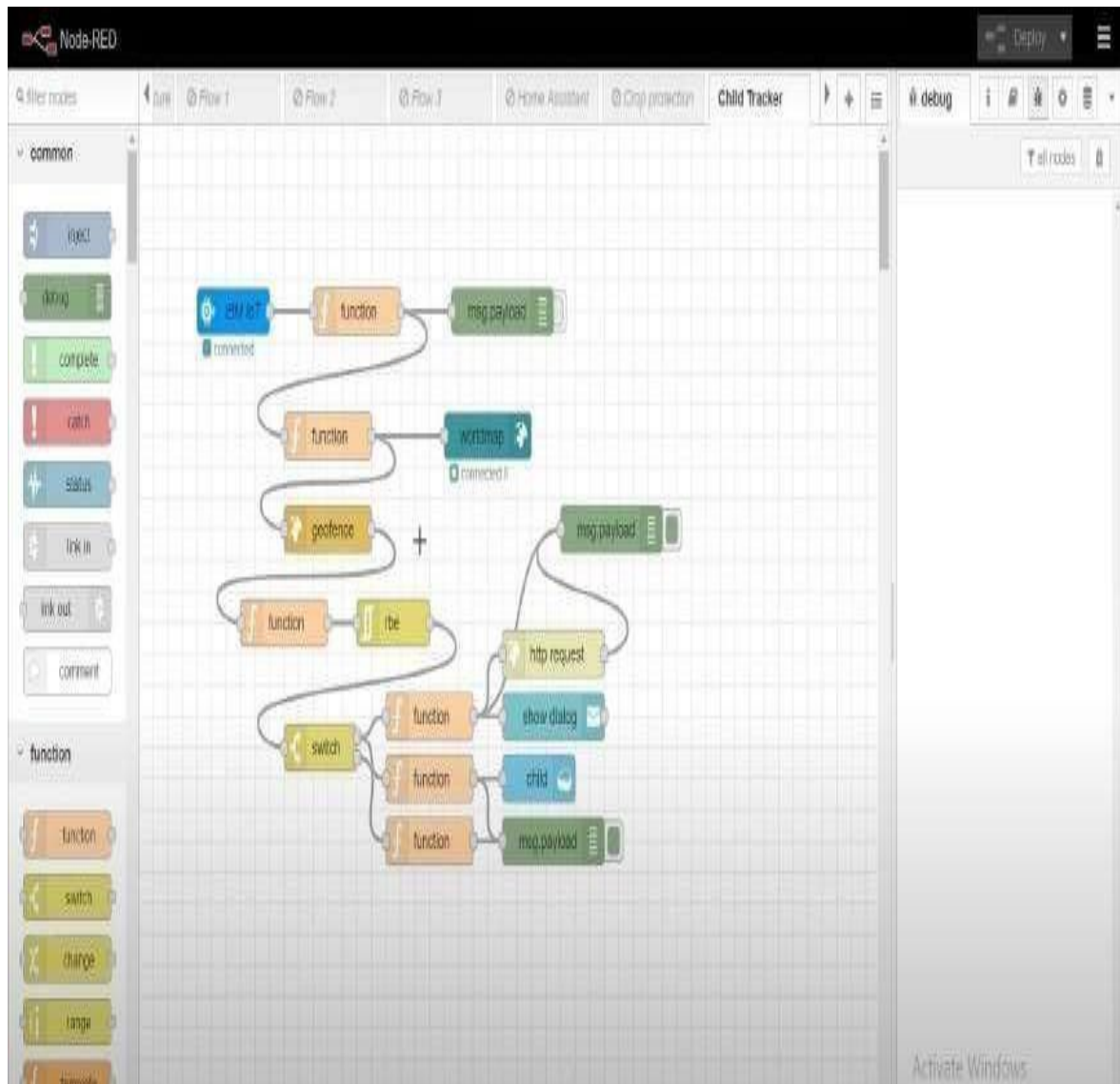
Develop a web application using Node-Red Services

Date	14 September 2022
Team ID	PNT2022TMID00392
Project Name	Project – IoT Based Safety Gadget for Child Safety Monitoring & Notification
Maximum Marks	4 Marks

IoT Based Safety Gadget for Child Safety Monitoring & Notification

Develop a web application using Node-Red Services Steps :

Open a Node-RED project



Add code to get 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 78.5450842
    #out area location
    latitude = 17.4219272
    longitude = 70.5400783
```

Ln: 1 Col: 0

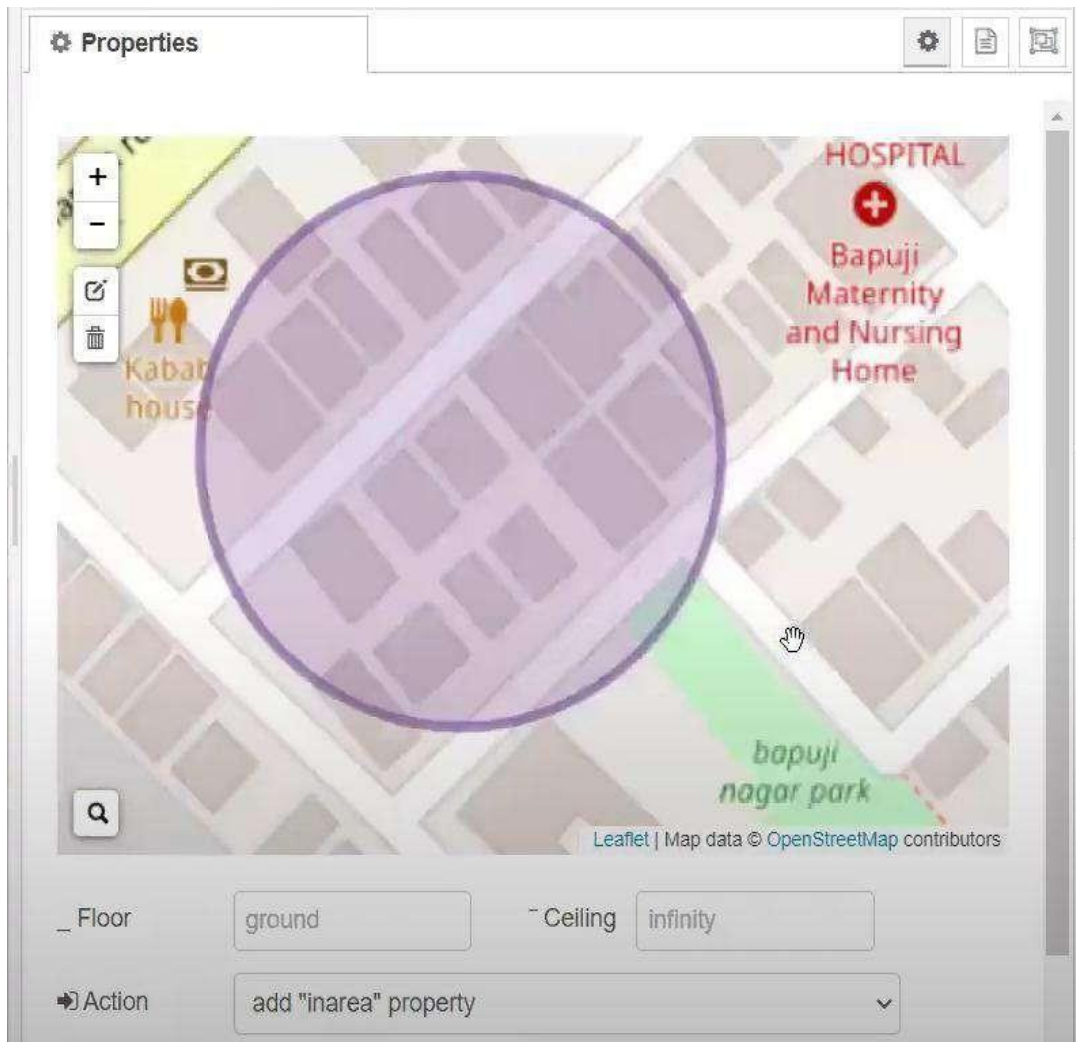
```
    "auth": {
        "token": "12345678"
    }
}
client = wiotp.sdk.device.DeviceClient (config=myConfig, logHandlers=None)
client.connect()

while True:
    name= "Smartbridge"
    #in area location
    #latitude- 17.4225176 longitude 78.5450842
    #out area location
    latitude = 17.4219272
    longitude = 70.5400783
    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)

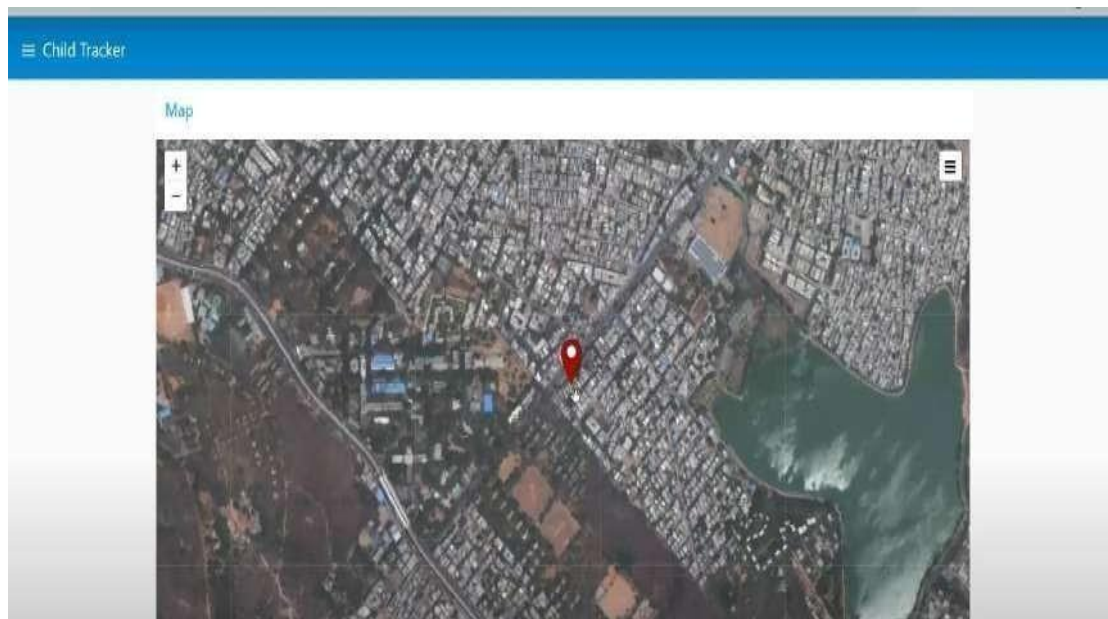
client.disconnect()
```

Ln: 1 Col: 0

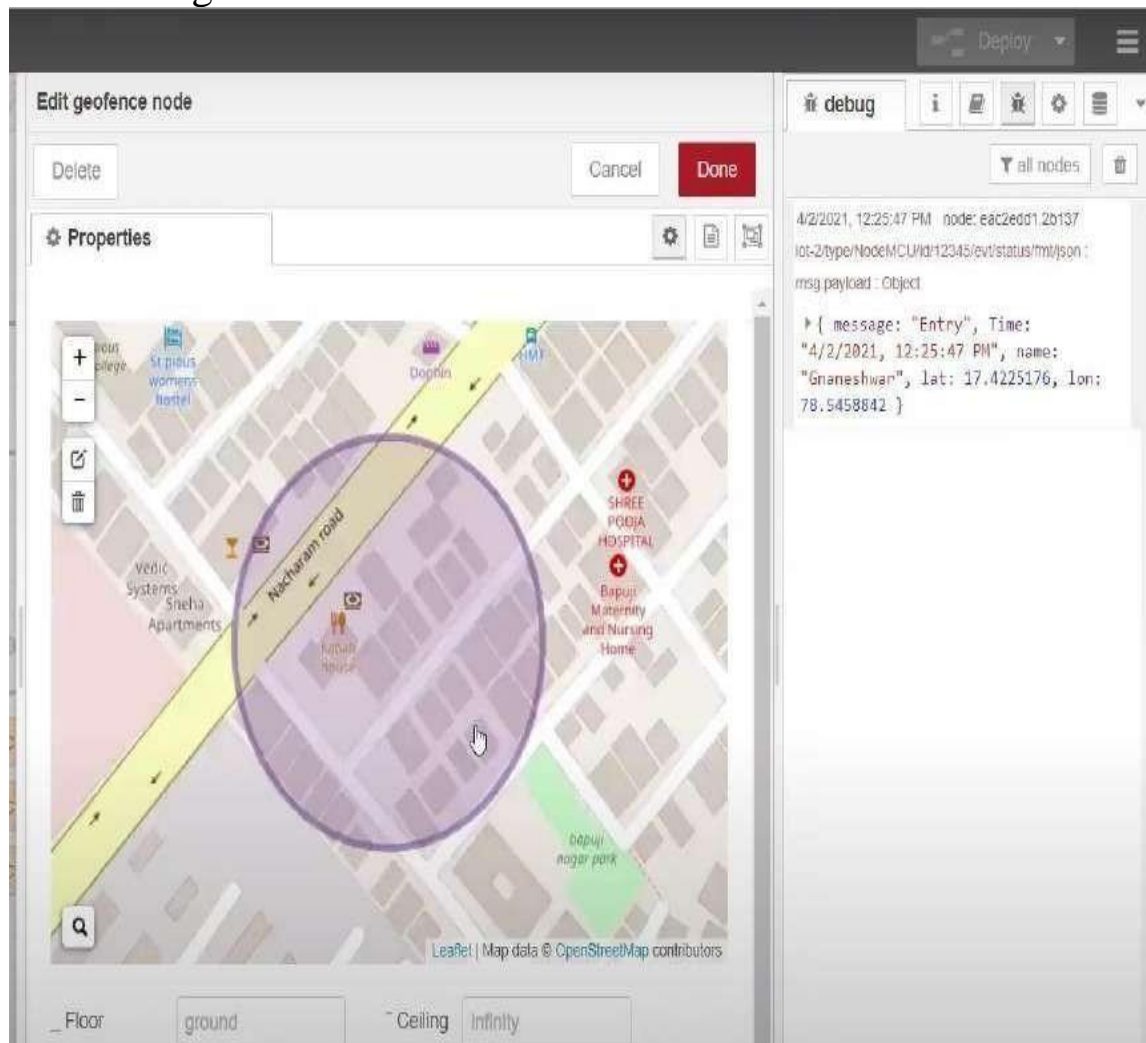
Create the Geofence



Locate the place



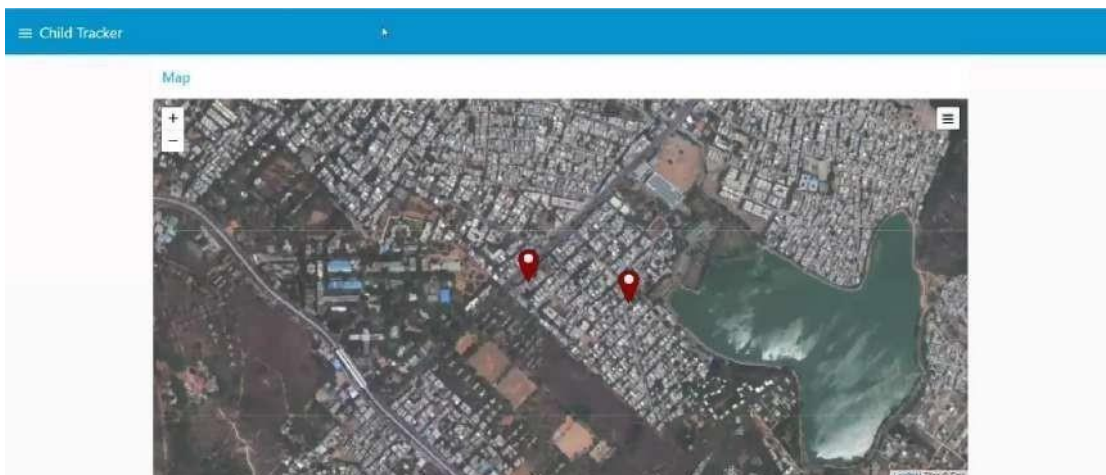
Create the geofence



Python script send requests to IBM Cloud

```
Editor - C:\Users\HP\Desktop\chuld.py Python console  
child.py  
  
1 import json  
2 import wiotp.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 = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)  
16 client.connect()  
17  
18 while True:  
19     name= "Smartbridge"  
20     #in area location  
21  
22     #Latitude= 17.4225776  
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,  
31                         print("Data published to IBM IoT platform: ",myData),onPub=  
32                         time.sleep(5))  
33  
34 client.disconnect()
```

After running the script, the web UI shows “Person is not in the particular area”



Conclusion :
Developed the web application using Node-RED Successfully