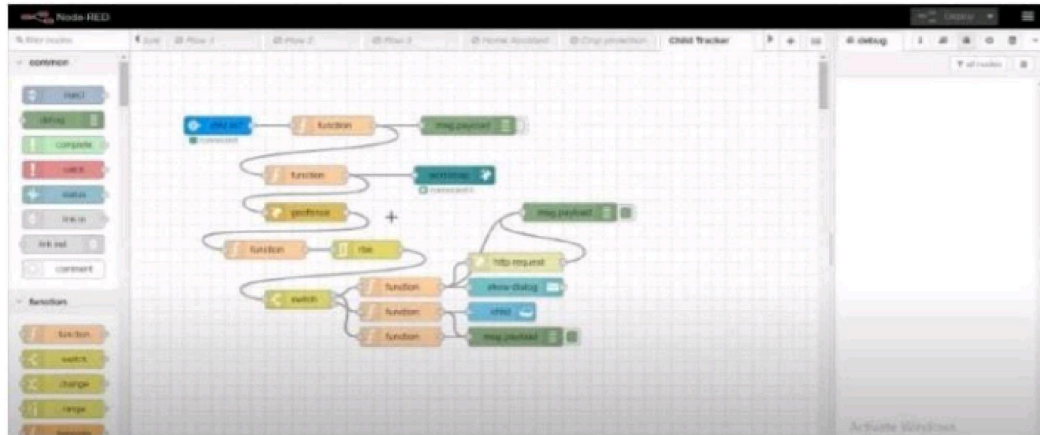


Steps :

1. Open a Node-RED project



2. 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

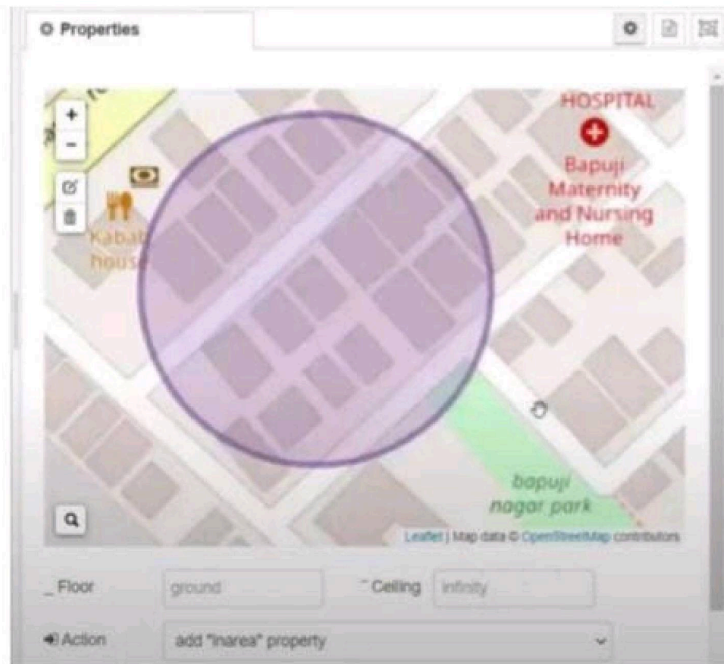
    latitude= 17.4225176
    longitude= 78.5458842

    #out area location

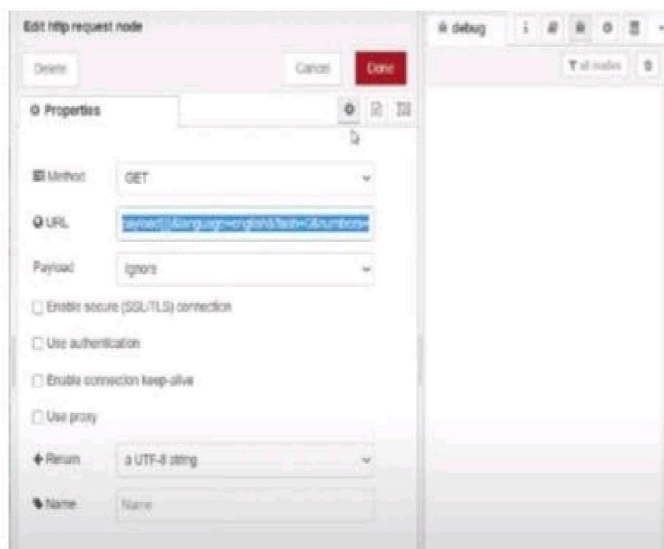
    #latitude= 17.4219272
    #longitude= 78.5488783
    myData={'name': name, 'lat':latitude, 'lon':longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ",myData)
    time.sleep(5)

client.disconnect()
```

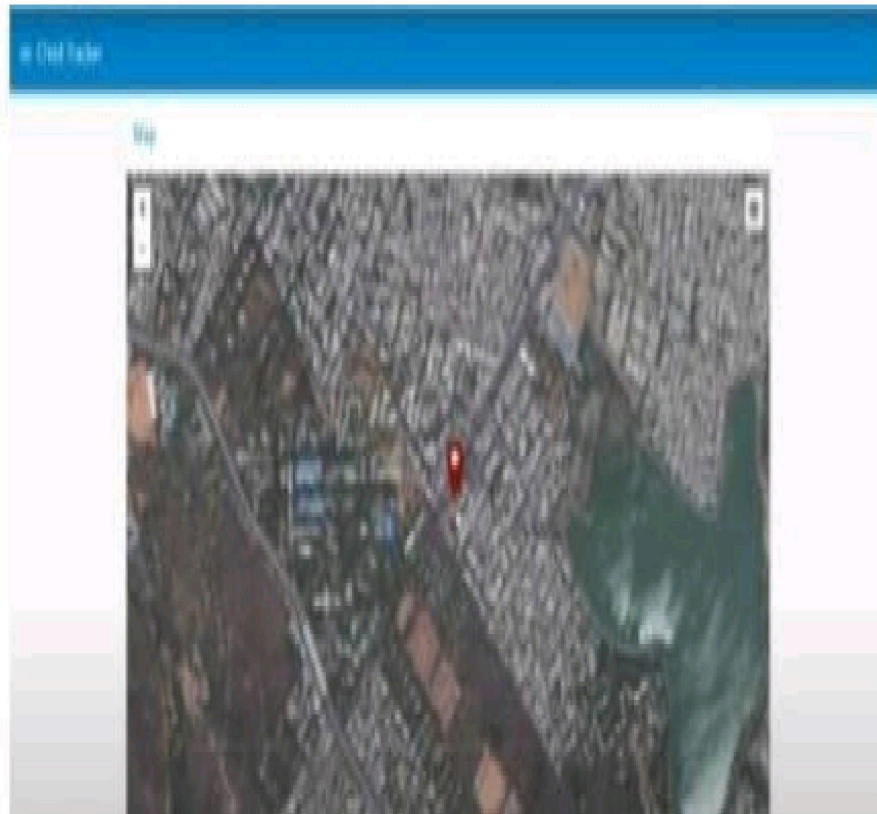
3. Create the GeoFence



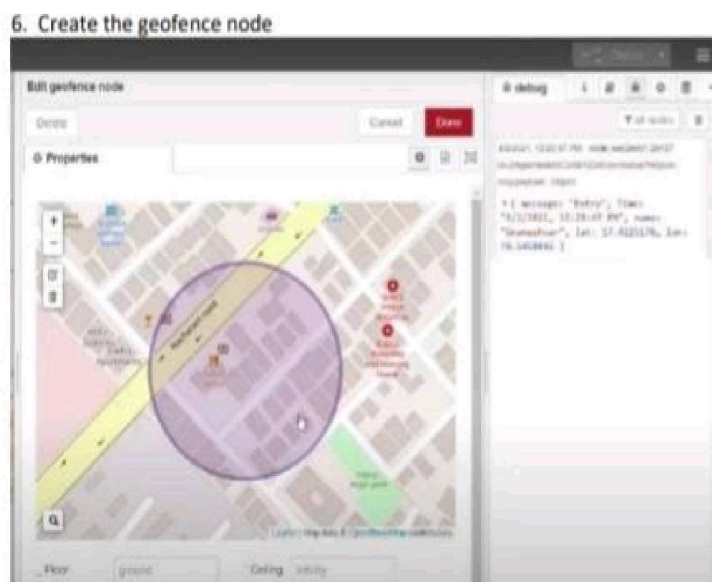
4. Edit the HTTP Request URL



5. Locate the child



6. Create the geofence node



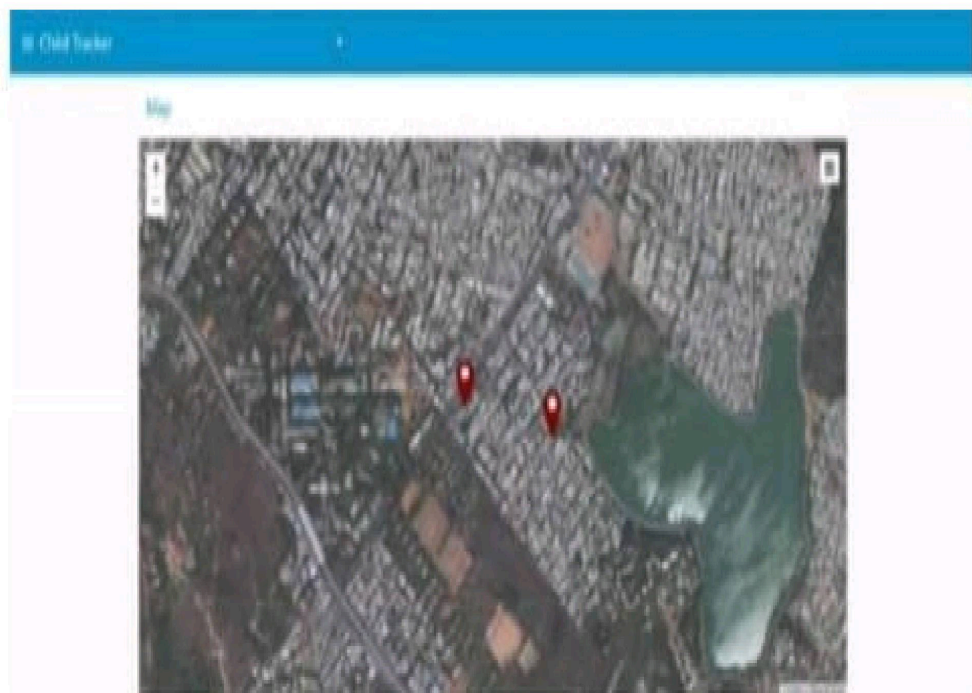
7. Python script send requests to IBM Cloud

```

1 import json
2 import mqtt.sdk.device
3 import time
4
5 myConfig = {
6     "identity": {
7         "orgId": "h355wq",
8         "typeId": "NodeMCU",
9         "deviceId": "11140"
10    },
11    "auth": {
12        "token": "12345678"
13    }
14 }
15 client = mqtt.sdk.device.DeviceClient(myConfig, logHandlers=None)
16 client.connect()
17
18 while True:
19     name = "SensorEdge"
20     # Pin setup declaration
21
22     #lat=17.4219372
23     #long=78.5488793
24
25     #out = sensor_declaration
26
27     latitude= 17.4219372
28     longitude= 78.5488793
29     myData={ 'name': name, 'lat': latitude, 'lon': longitude }
30     client.publish(topic="newData/status", msgFormat="json", data=myData, qos=0, retain=False)
31     print("Data published to IoT IoT platform: ", myData)
32     time.sleep(5)
33
34 client.disconnect()
35

```

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



Conclusion:

Developed the web application using Node-RED Successfully