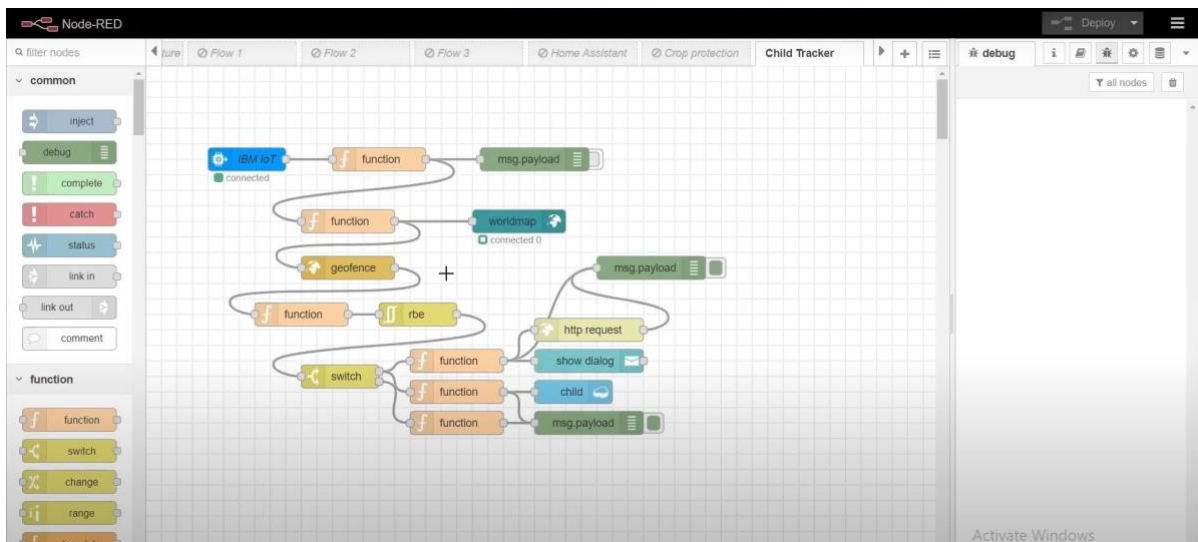


## DEVELOP A WEB APPLICATION USING NODE-RED SERVICE DEVELOP THE WEB APPLICATION USING NODE-RED

DATE	29 OCTOBER 2022
TEAM ID	PNT2022TMID41585
PROJECT NAME	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION
TEAM LEADER	DURAI S
TEAM MEMBERS	PASUPATHI R NAGAVALLI K SIVA M

**Aim: Develop the web application using Node-RED Steps Followed:**

### Opened a Node-RED project



### Added 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

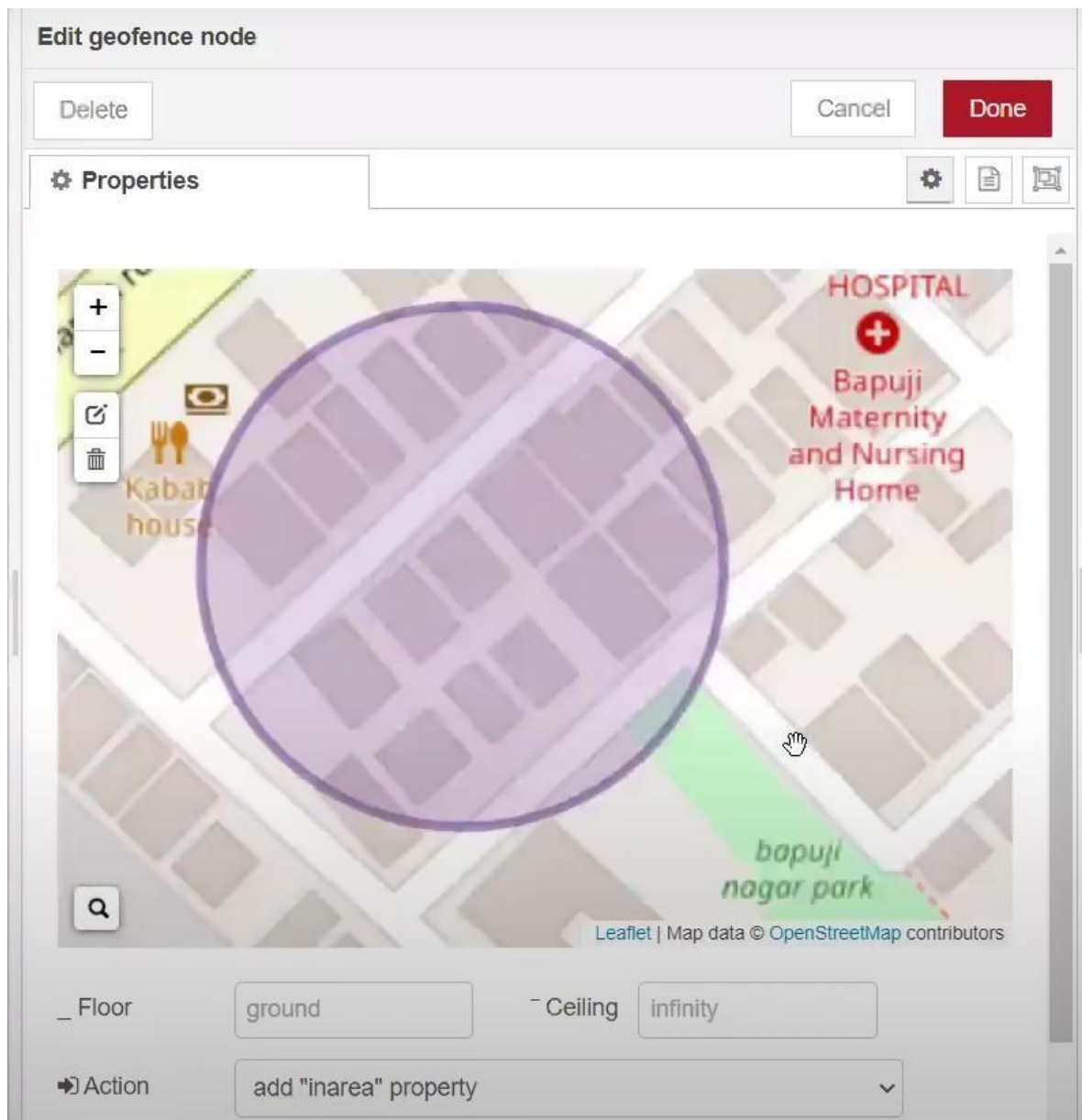
    latitude= 17.4225176
    longitude= 78.5458842

    #out area location

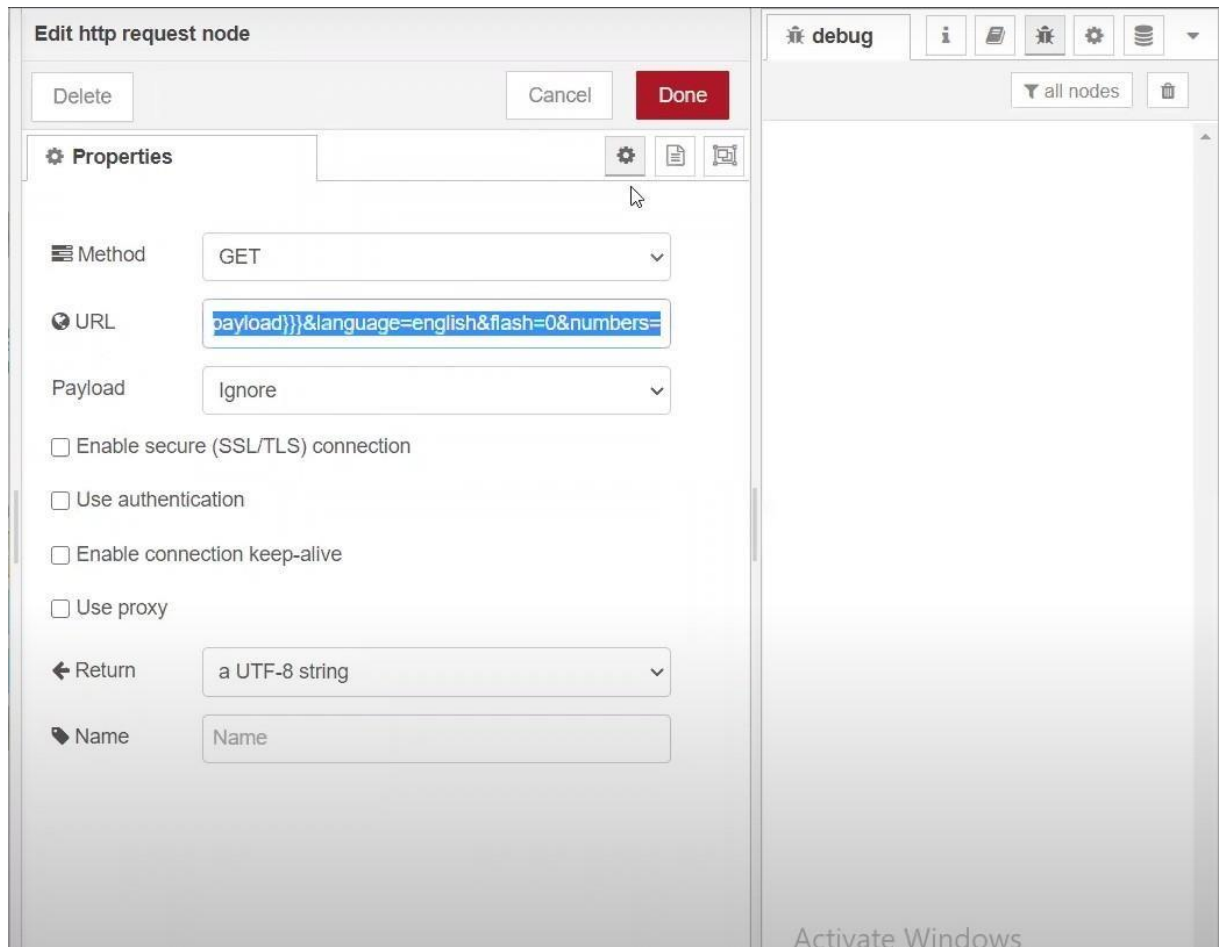
    #latitude= 17.4219272
    #longitude= 78.5488783
    myData={'name': name, 'lat':latitude,'lon':longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ",myData)
    time.sleep(5)

client.disconnect()
```

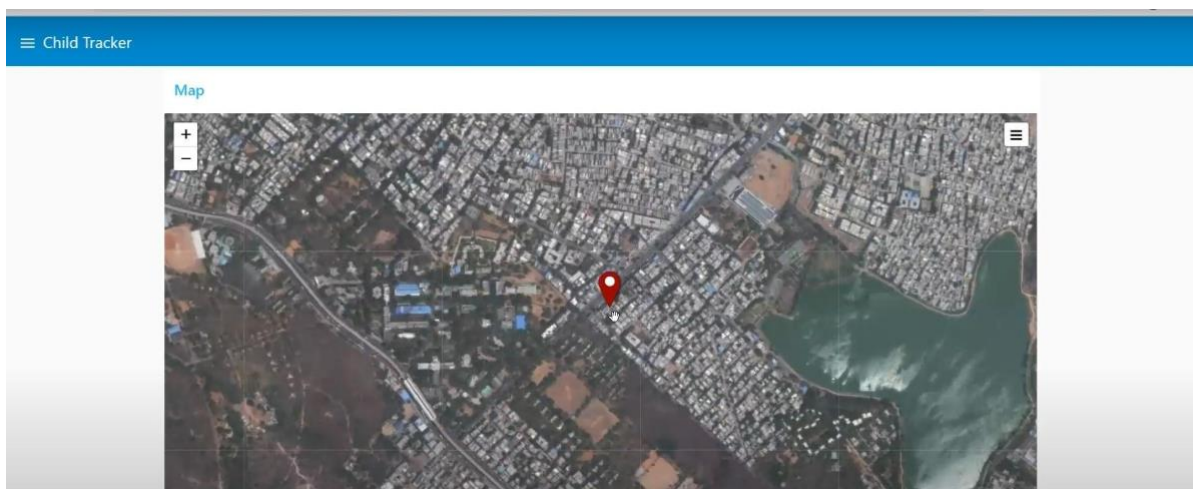
## Created the GeoFence



## Editing the HTTP Request URL



## Located the child



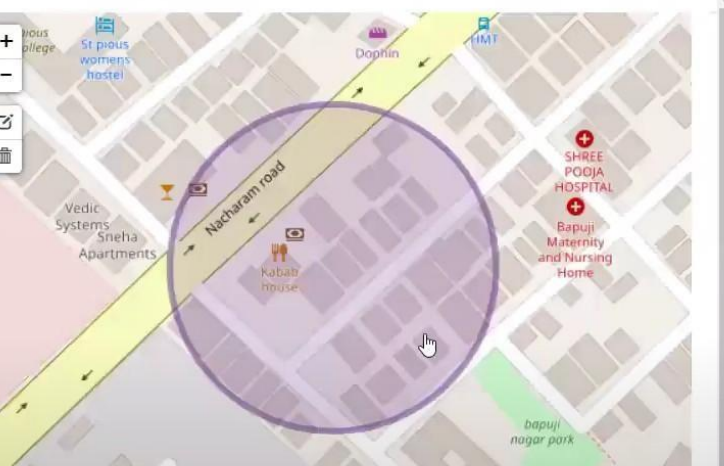
### Edit geofence node

Delete
Cancel
Done

---

⚙️ Properties

⚙️
📄
🗺️



The map displays a street grid with a yellow road labeled 'Nacharam road'. A purple circular geofence is centered over a building icon labeled 'Kabab house'. Other landmarks include 'St. pious womens hostel', 'Vedic Systems Sneha Apartments', 'Dolphin', 'HMT', 'SHREE POOJA HOSPITAL', 'Bapuji Maternity and Nursing Home', and 'babuji nagar park'. Map controls like zoom (+/-), pan, and search are visible on the left.

Leaflet | Map data © OpenStreetMap contributors

\_ Floor

ground

- Ceiling

infinity

debug
🔍 all nodes
🗑️

```

4/2/2021, 12:25:47 PM   node: eac2edd1.2b137
lot-2/type/NodeMCU/id/12345/evl/status/fmt/json :
msg.payload : Object

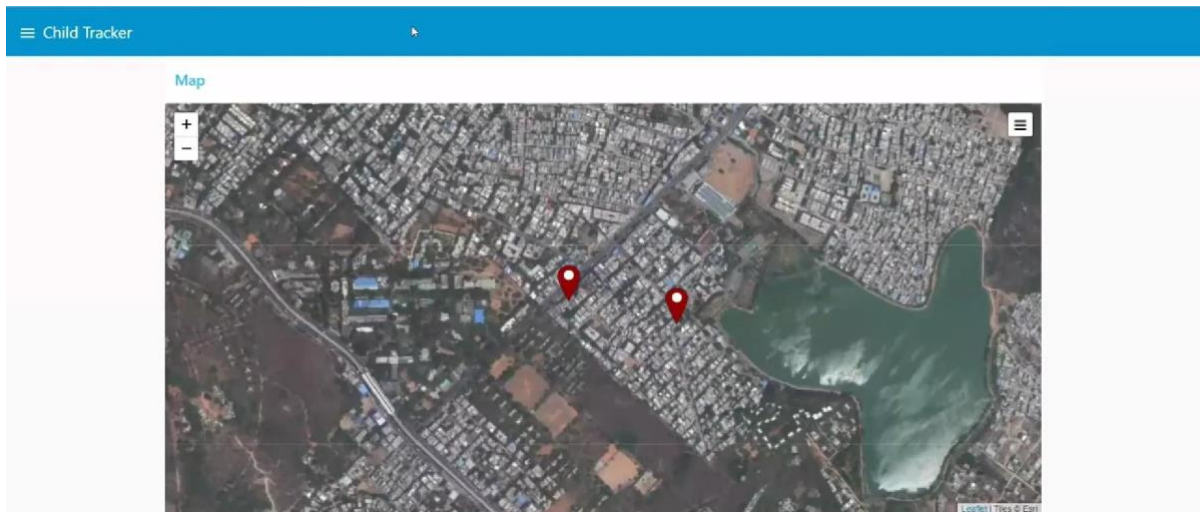
▶ { message: "Entry", Time:
  "4/2/2021, 12:25:47 PM", name:
  "Gnaneshwar", lat: 17.4225176, lon:
  78.5458842 }
        
```

```
Editor - C:\Users\HP\Desktop\child.py Python console
child.py x Console 2/A x

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= 17.4225176
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
```



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



**Result: Successfully developed the web application using Node-RED**