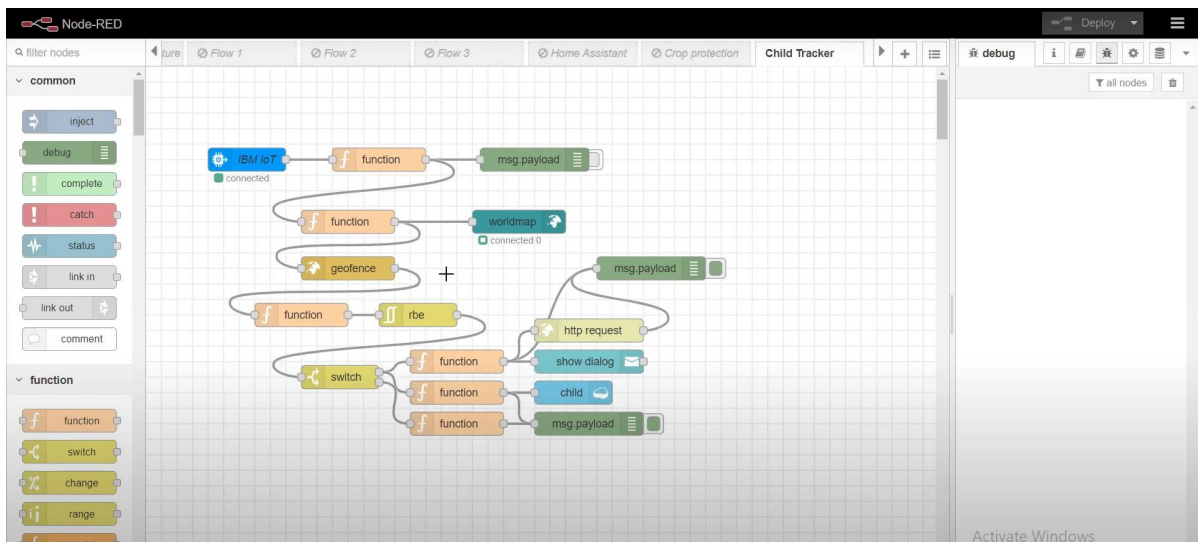


## DEVELOP A WEB APPLICATION USING NODE-RED SERVICE DEVELOP THE WEB APPLICATION USING NODE-RED

DATE	29 OCTOBER 2022
TEAM ID	PNT2022TMID20466
PROJECT NAME	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION
TEAM LEADER	MONALISA M
TEAM MEMBERS	KIRUTHIKA D MADHUSRI J RAHAMATH SHIHANA S

**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": "NodeMCD",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}

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

while True:
    name= "Smartbridge"
    #in area location

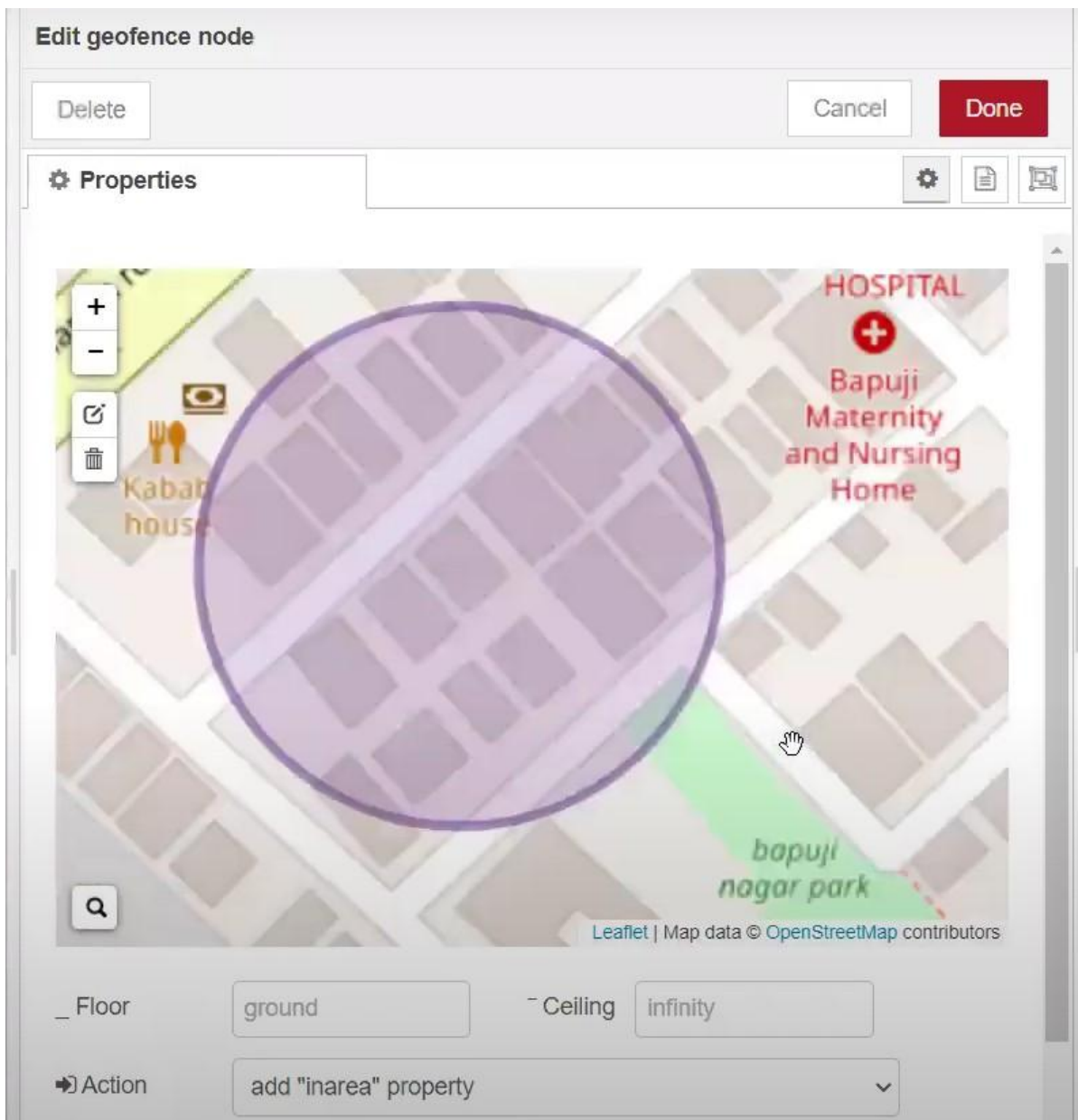
    latitude= 17.4225176
    longitude= 78.5458842

    #out area location

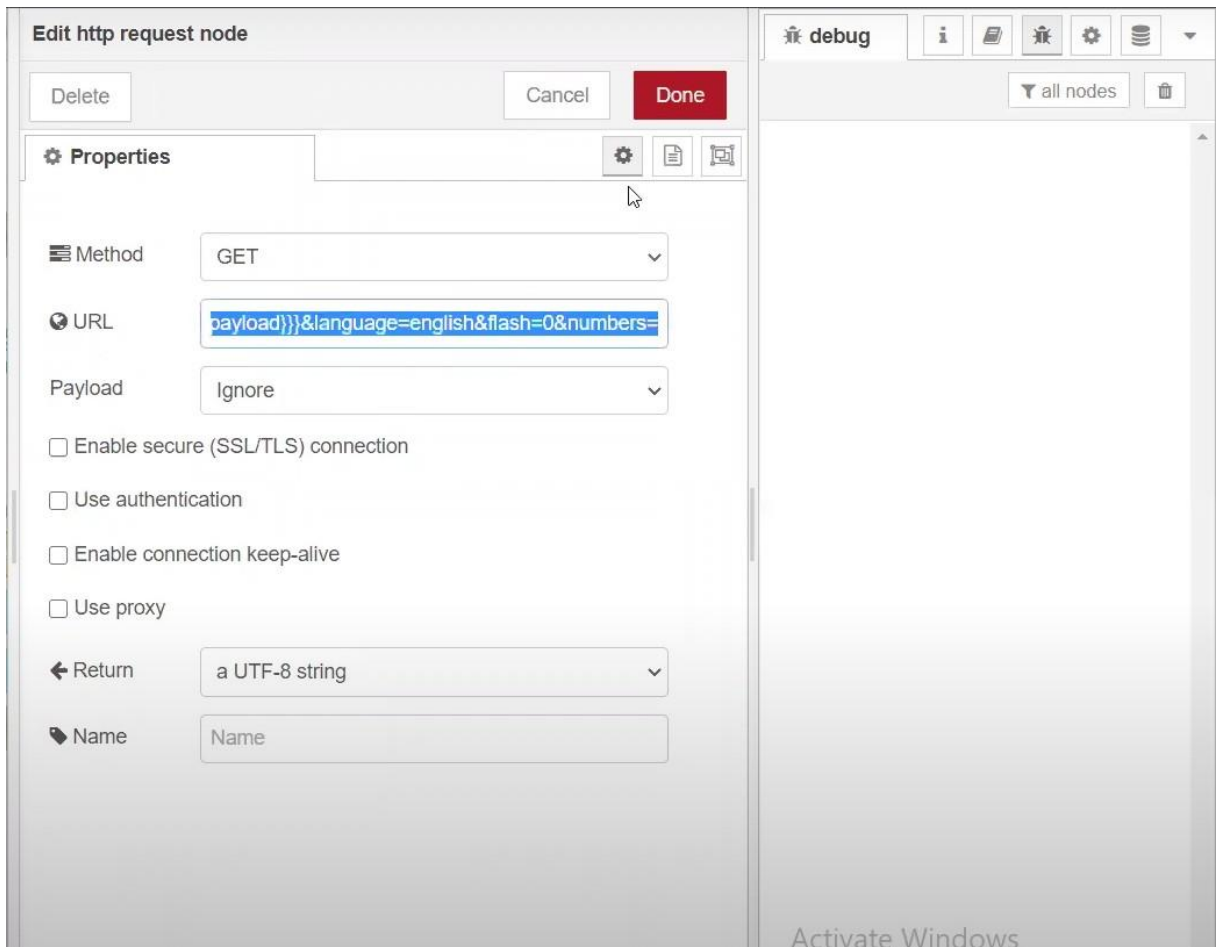
    #latitude= 17.4219272
    #longitude= 78.5488783
    myData={'name': name, 'lat':latitude,'lon':longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ",myData)
    time.sleep(5)

client.disconnect()
```

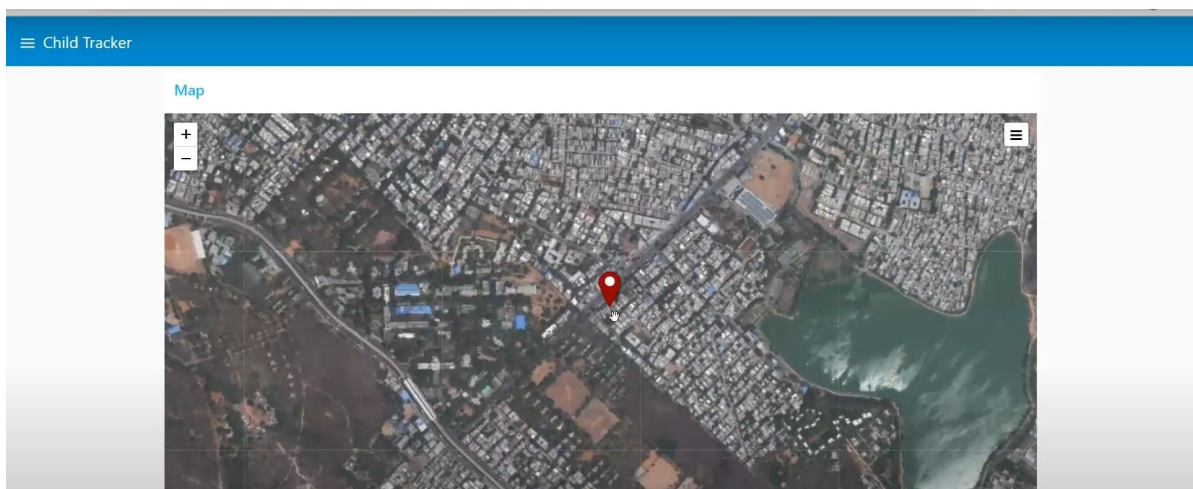
## Created the GeoFence



## Editing the HTTP Request URL



## Located the child



### Edit geofence node

Delete
Cancel
Done

---

⚙️ Properties

⚙️
📄
🗺️

debug
i
📄
⛔
⚙️
☰

all nodes
🗑️

```

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

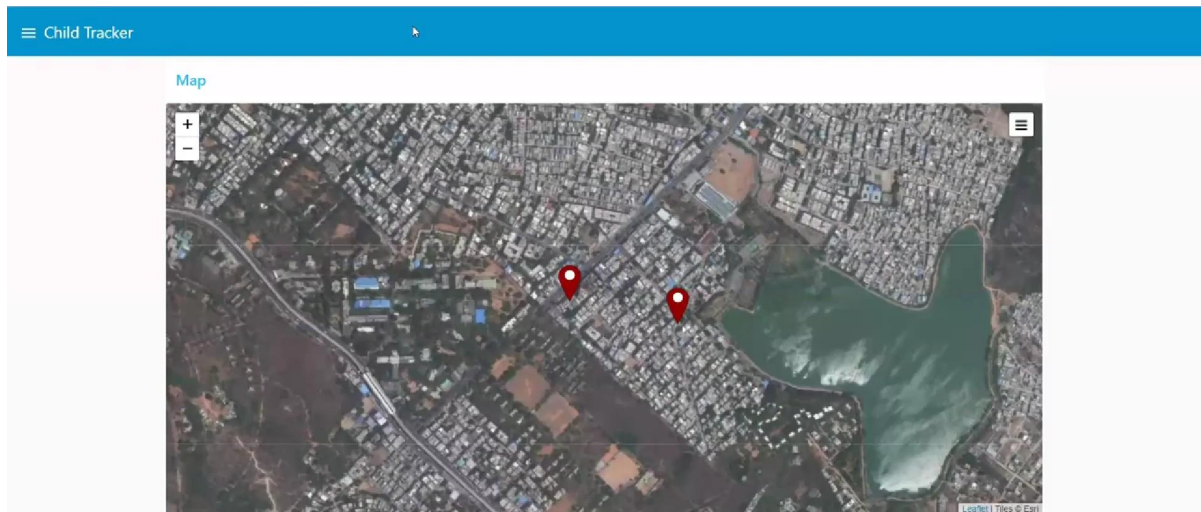
▶ { message: "Entry", Time:
  "4/2/2021, 12:25:47 PM", name:
    "Gnaneshwar", lat: 17.4225176, lon:
      78.5458842 }
        
```

\_ Floor
ground
- Ceiling
infinity

```
Editor - C:\Users\HP\Desktop\child.py
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= 17.4225176
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**