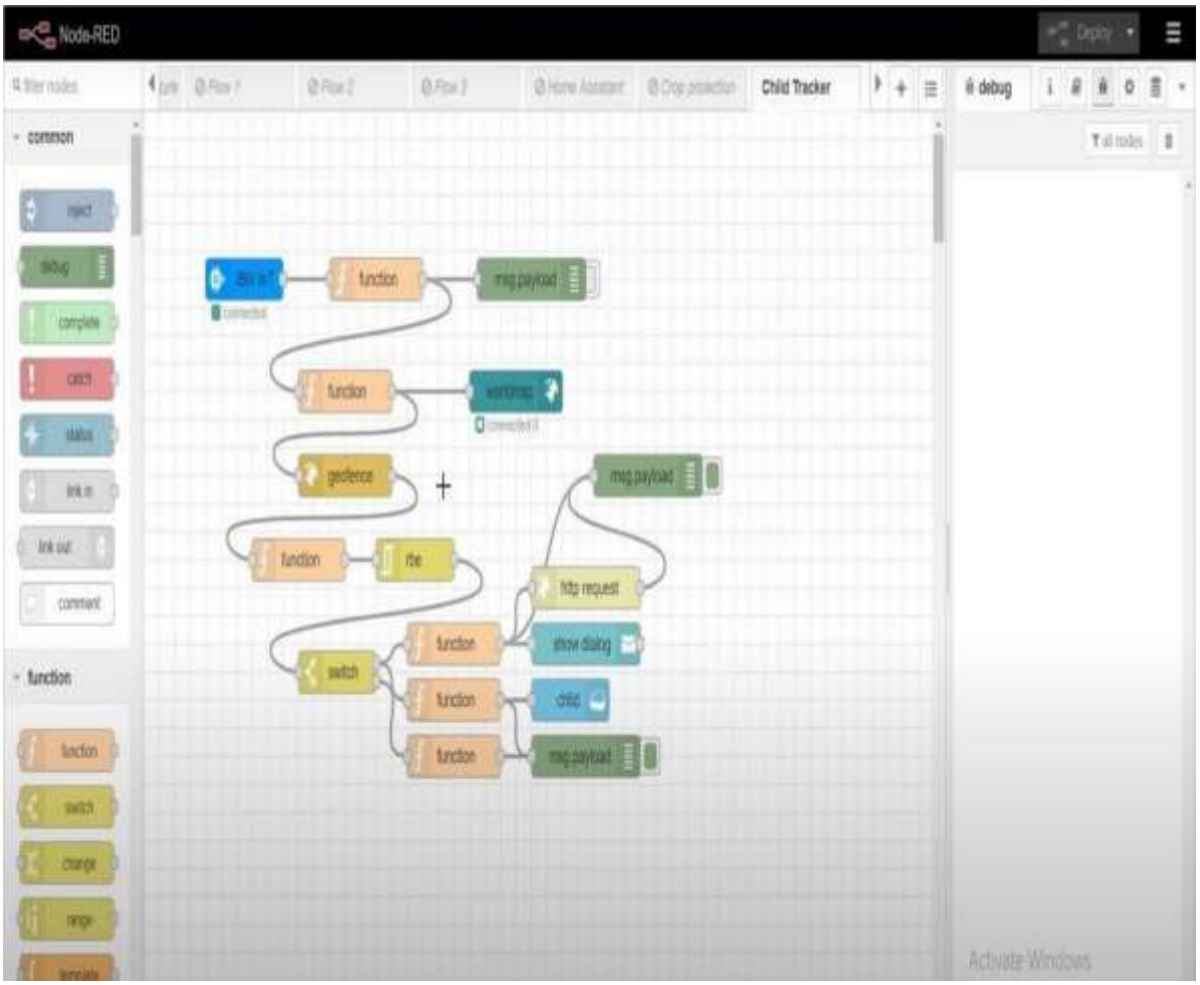
DATE	7-11-2022
TEAM ID	PNT2022TMID25436
PROJECT NAME	Industry-specific intelligent fire management system

Develop A Web Application Using Node-RED

Steps Followed:

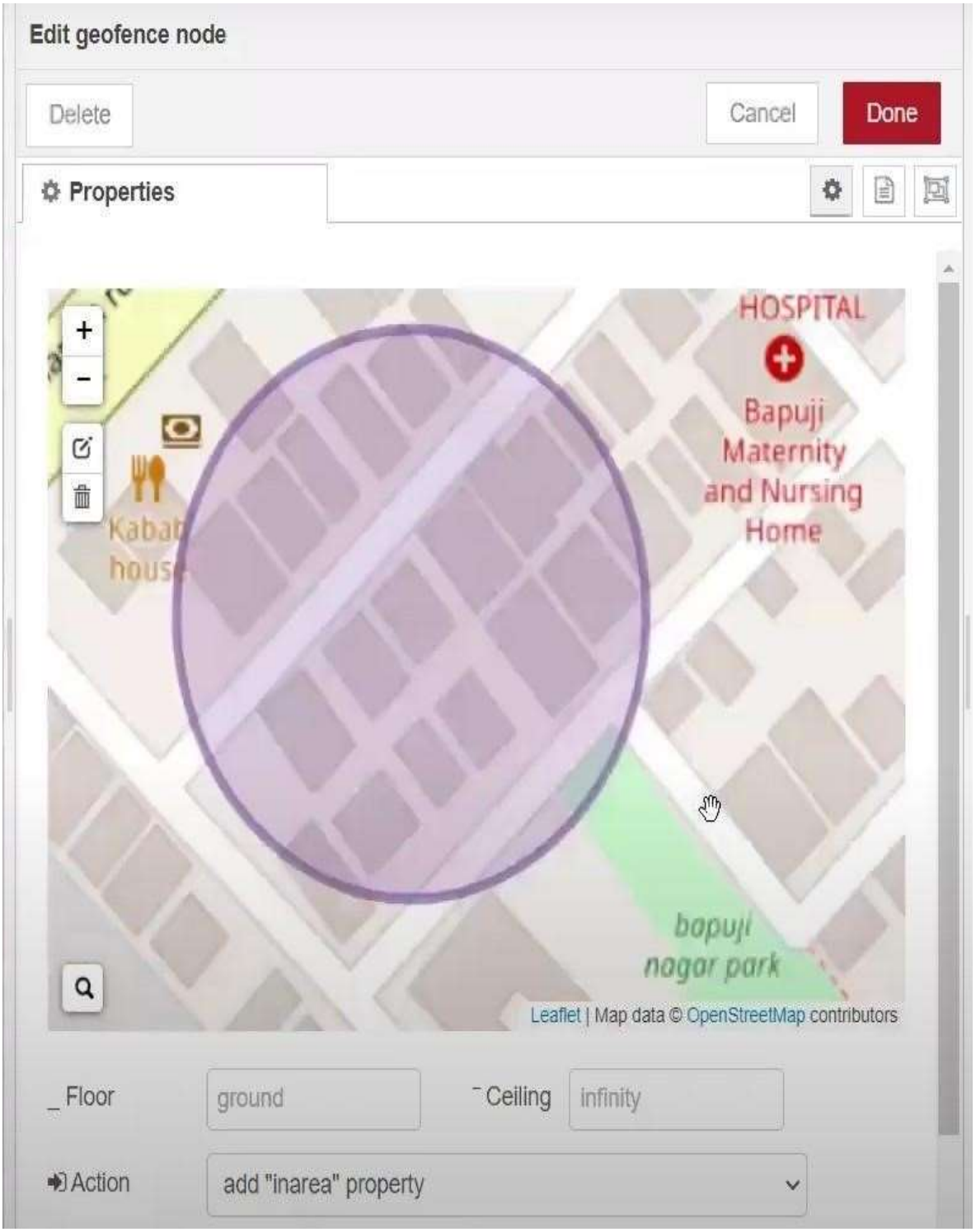
- **Opened a Node-RED project**



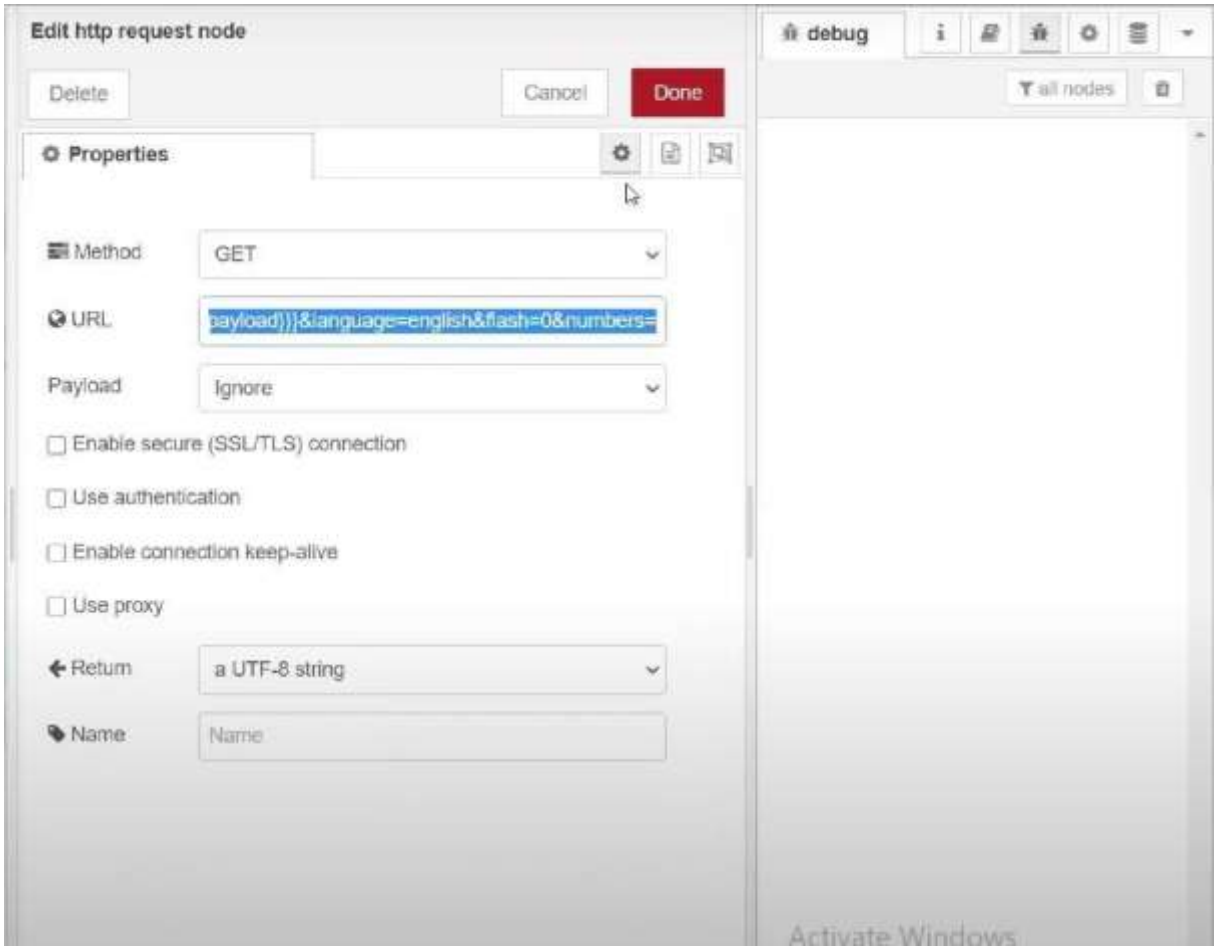
- **Added code to get child location in python**

```
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 platfrom: ",myData)
        time.sleep(5)

client.disconnect()
```

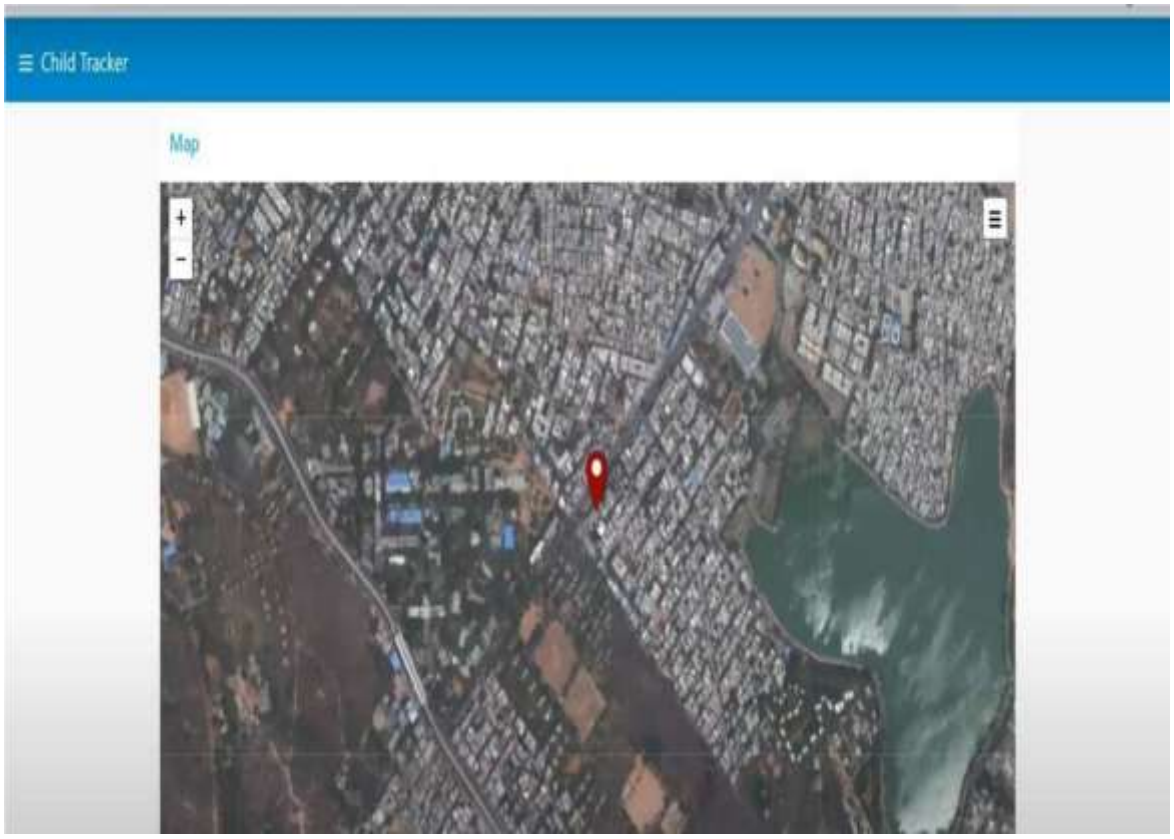
- **Created the GeoFence**

- 
Edit geofence node
Delete
Cancel
Done
Properties
HOSPITAL
Bapuji
Maternity
and Nursing
Home
bapuji
nagar park
Leaflet | Map data © OpenStreetMap contributors
Floor
ground
Ceiling
infinity
Action
add "inarea" property

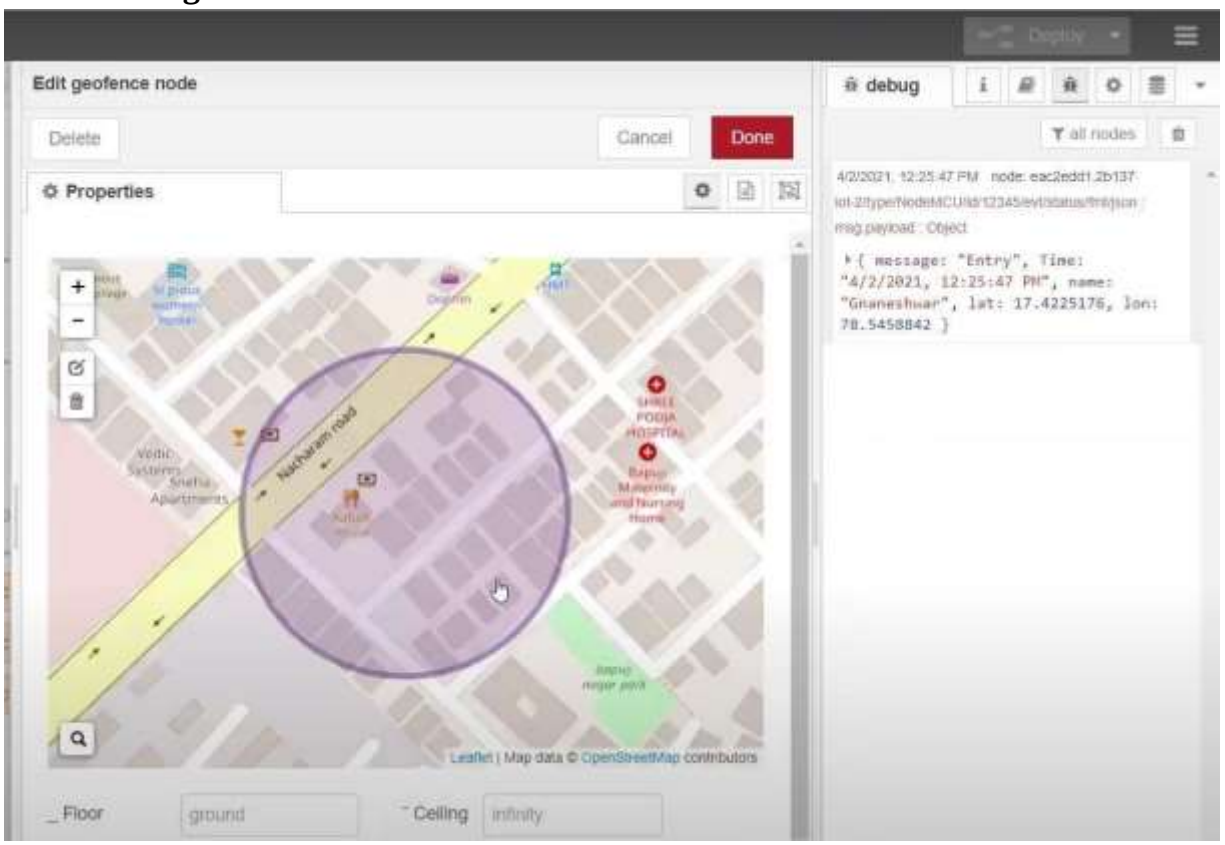
- **Editing the HTTP Request URL**



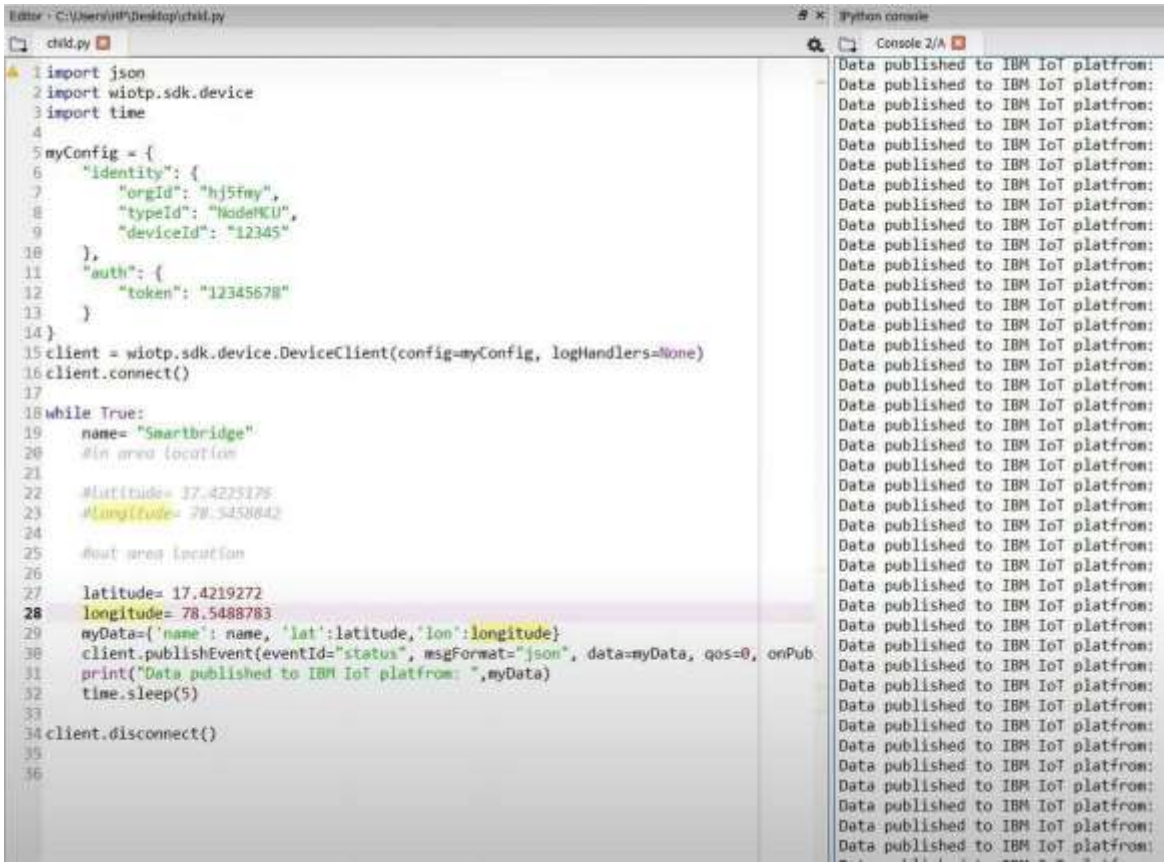
- **Located the child**

- 

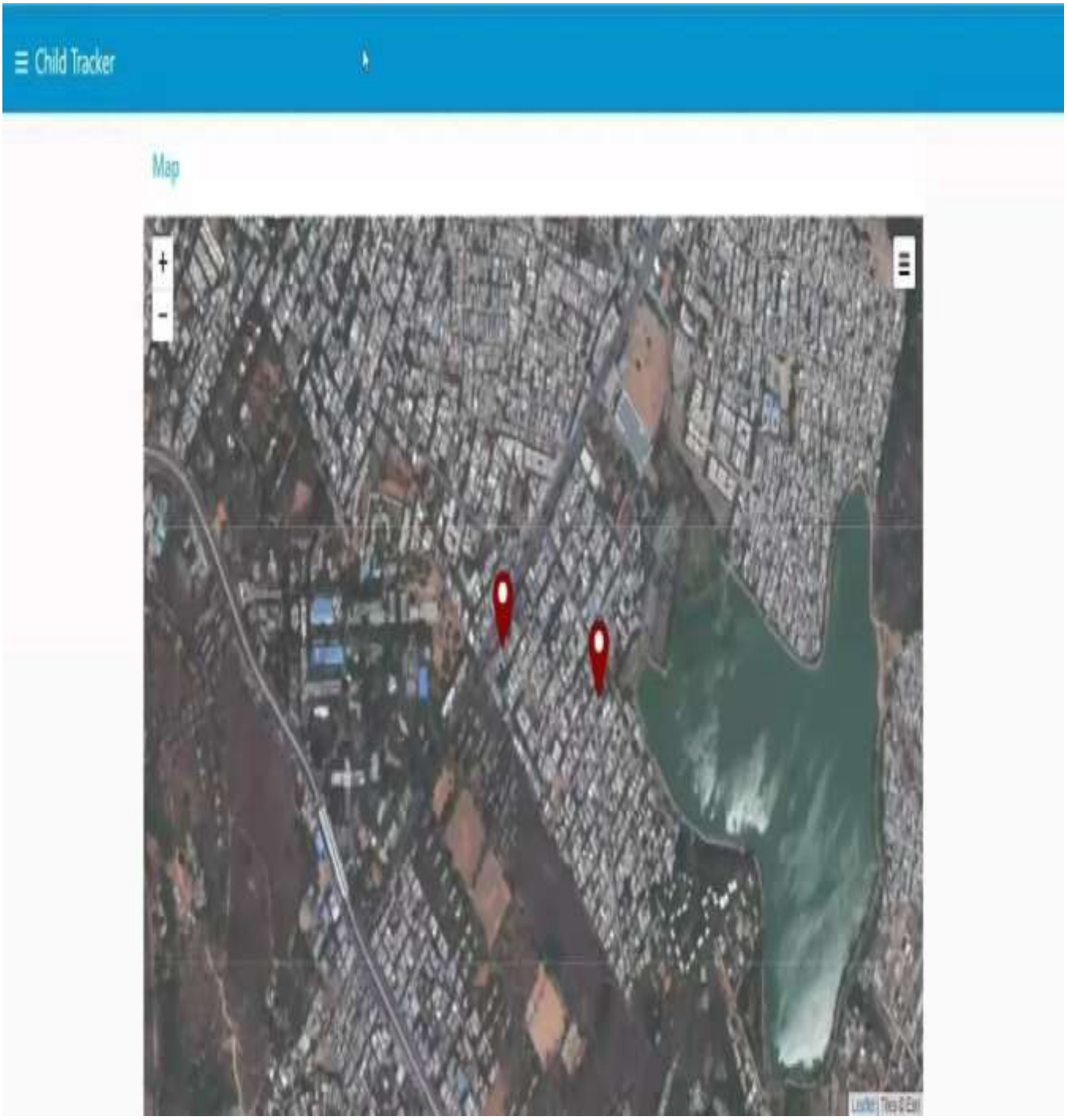
Created the geofence node



- **Python script sending requests to IBM Cloud**

- 
Editor - C:\Users\HP\Desktop\child.py
child.py
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= 78.5488783
myData={'name': name, 'lat':latitude,'lon':longitude}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPub
print("Data published to IBM IoT platfrom: ",myData)
time.sleep(5)
client.disconnect()
IPython console
Console 2/A
Data published to IBM IoT platfrom:

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



Result: Successfully developed a web application using Node-RED