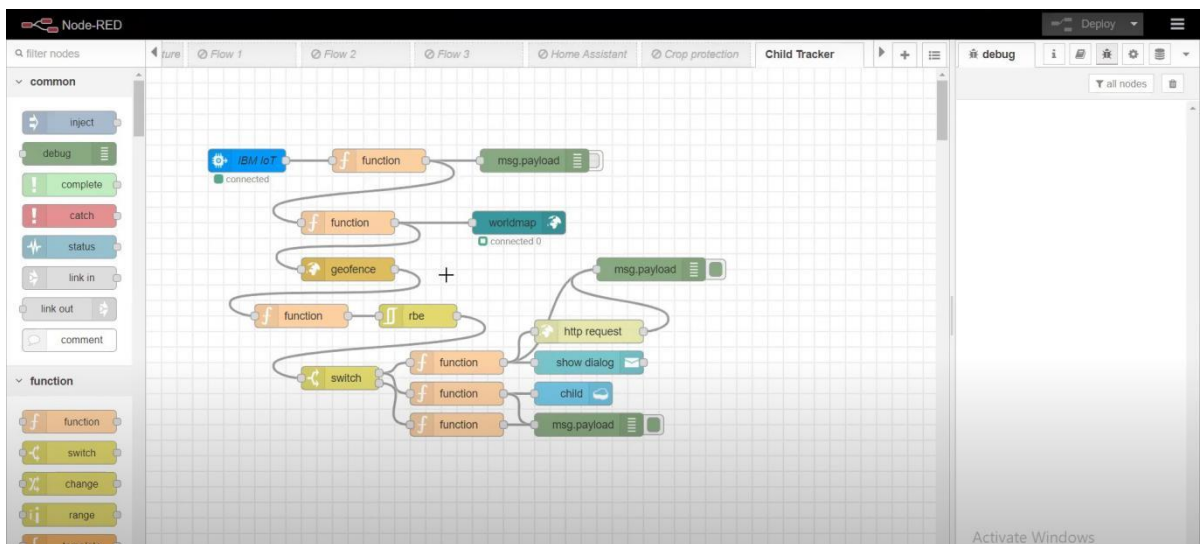


Develop A Web Application Using Node-RED

Date	26 October 2022
Team ID	PNT2022TMID44407
Project Name	Project - IoT Based Safety Gadget For Child Safety Monitoring & Notification
Maximum Marks	2 Marks

- 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

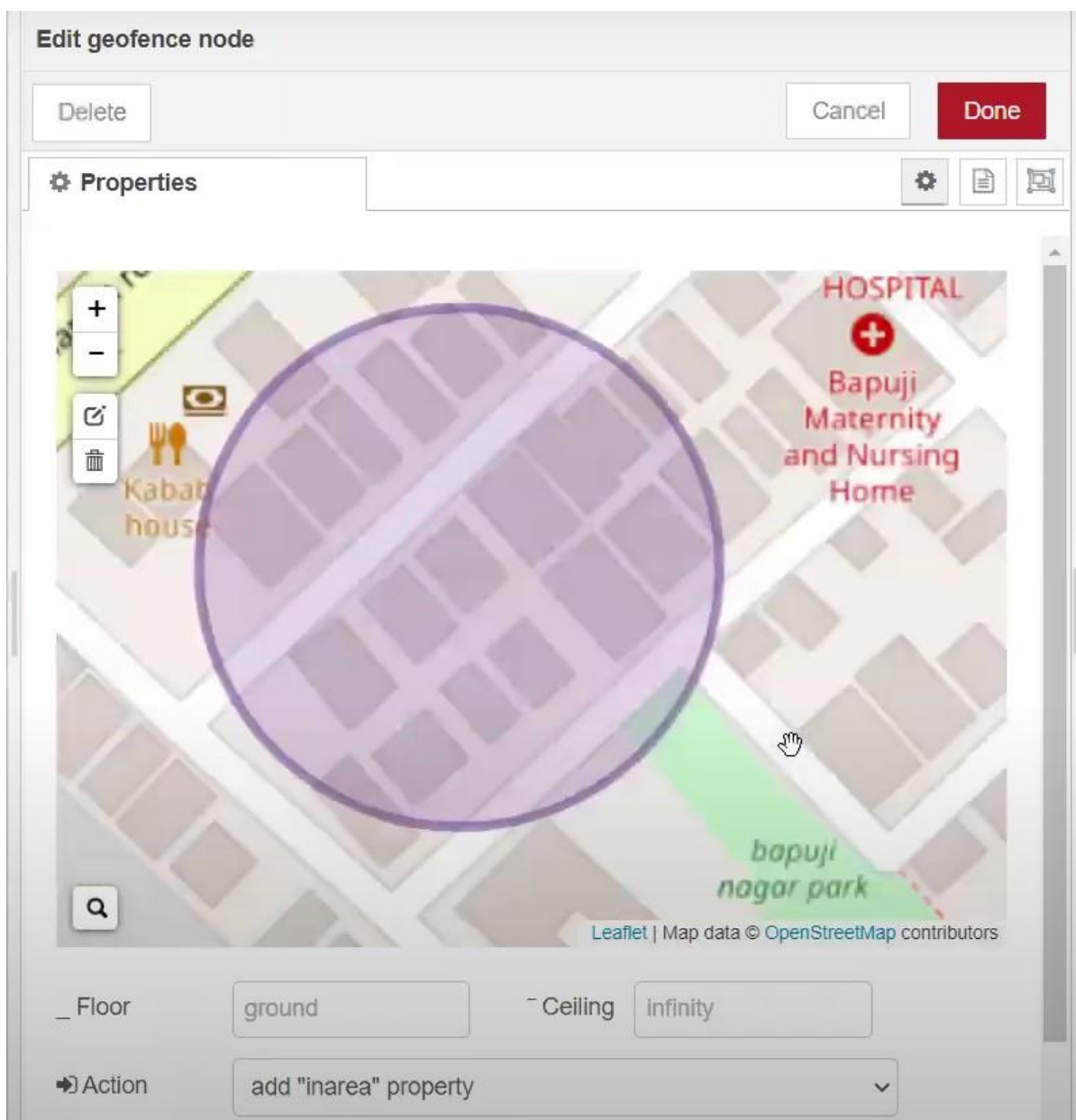
    latitude= 17.4225176
    longitude= 78.5458842

    #out area location

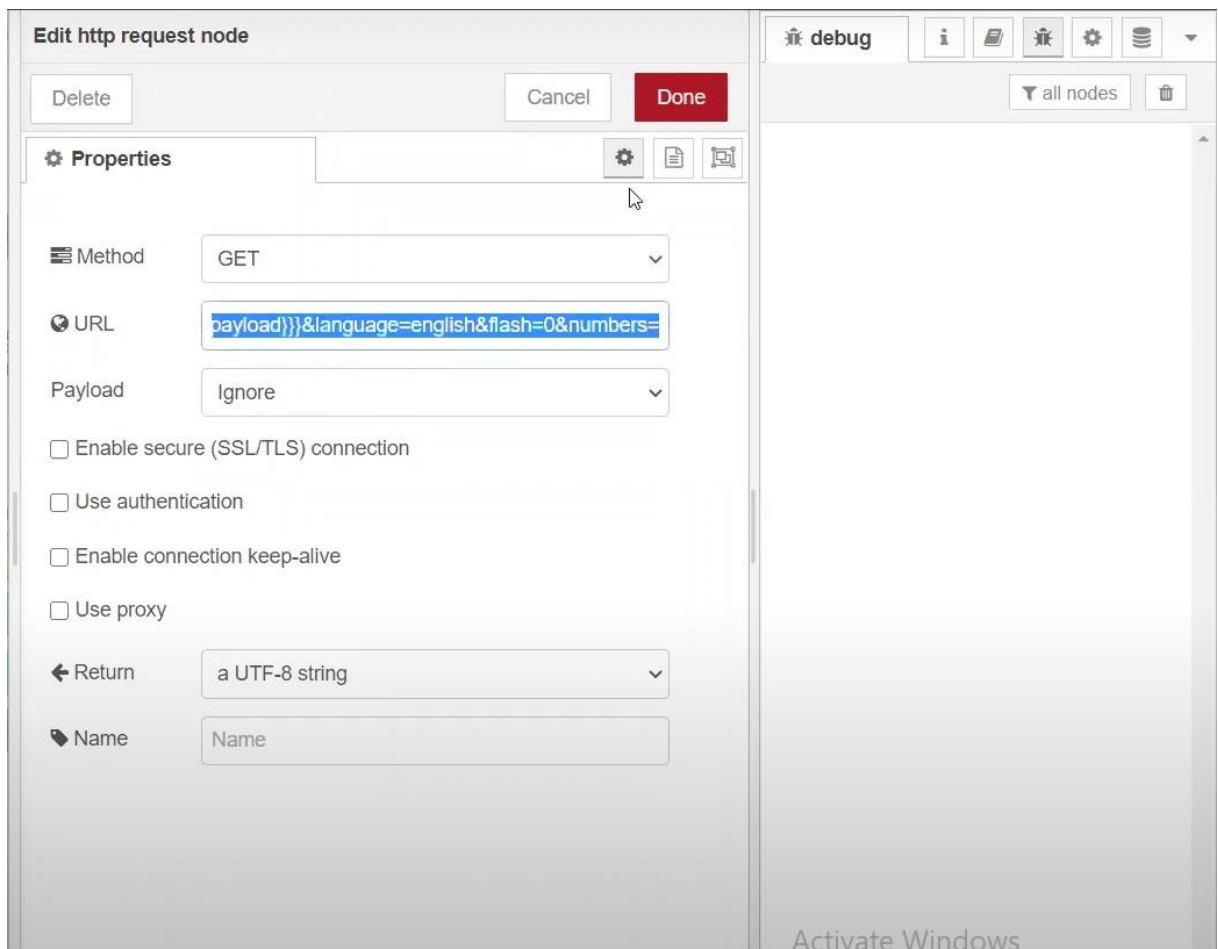
    #latitude= 17.4219272
    #longitude= 78.5488783
    myData={'name': name, 'lat':latitude,'lon':longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ",myData)
    time.sleep(5)

client.disconnect()
```

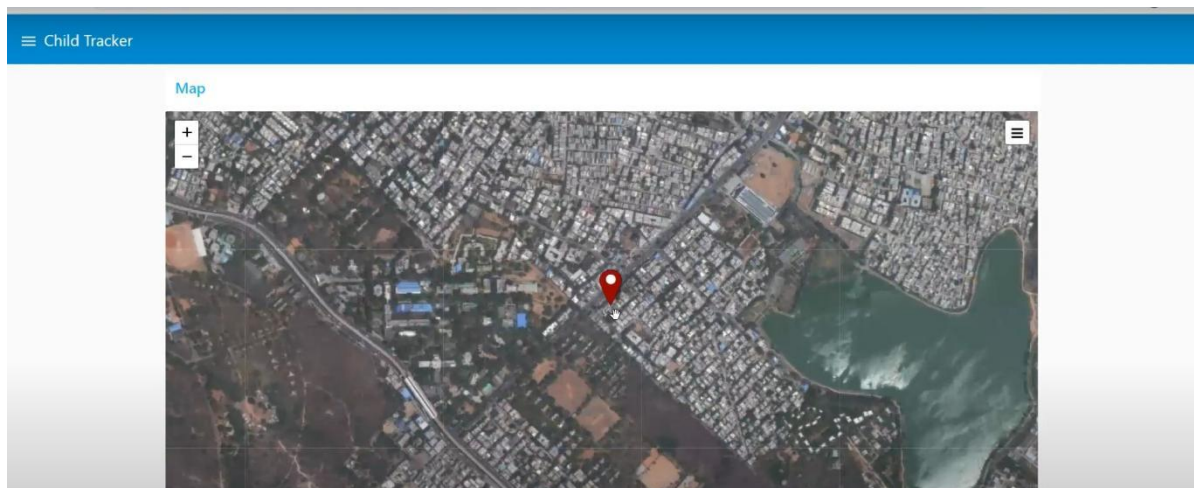
- Created the GeoFence



- Editing the HTTP Request URL



- Located the child



- ### Edit geofence node

Delete
Cancel
Done

⚙️ Properties

⚙️
📄
🗺️

Leaflet | Map data © OpenStreetMap contributors

_ Floor

ground

- Ceiling

infinity
- 🐞 debug
🔍
📄
🏠
⚙️
🗺️
▼

all nodes 🗑️

```

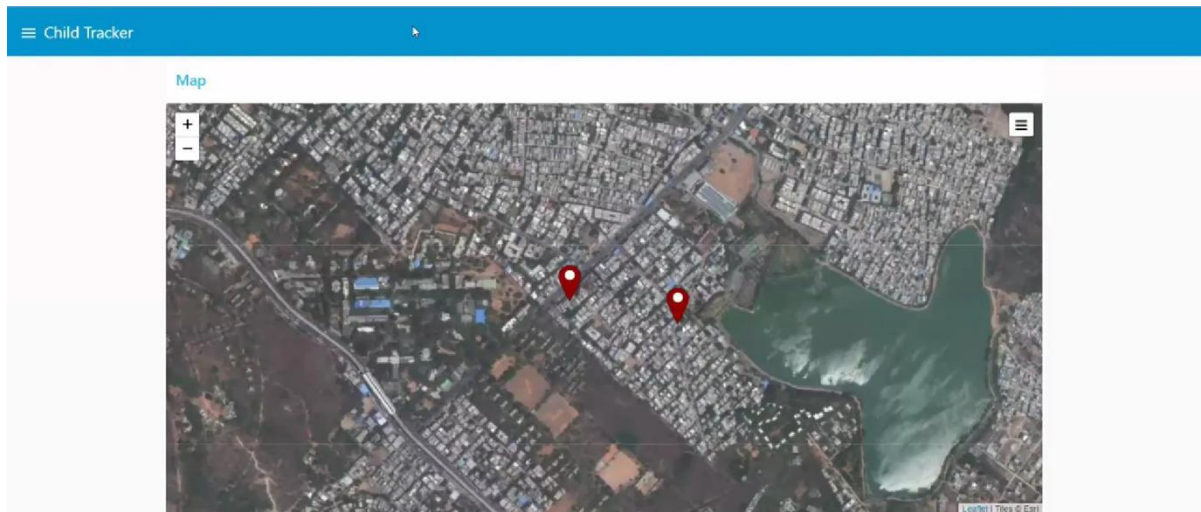
4/2/2021, 12:25:47 PM   node: eac2edd1.2b137
iot-2/type/NodeMCU/id/12345/evt/status/fmt/json :
msg.payload : Object

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

- ```
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 a web application using Node-RED