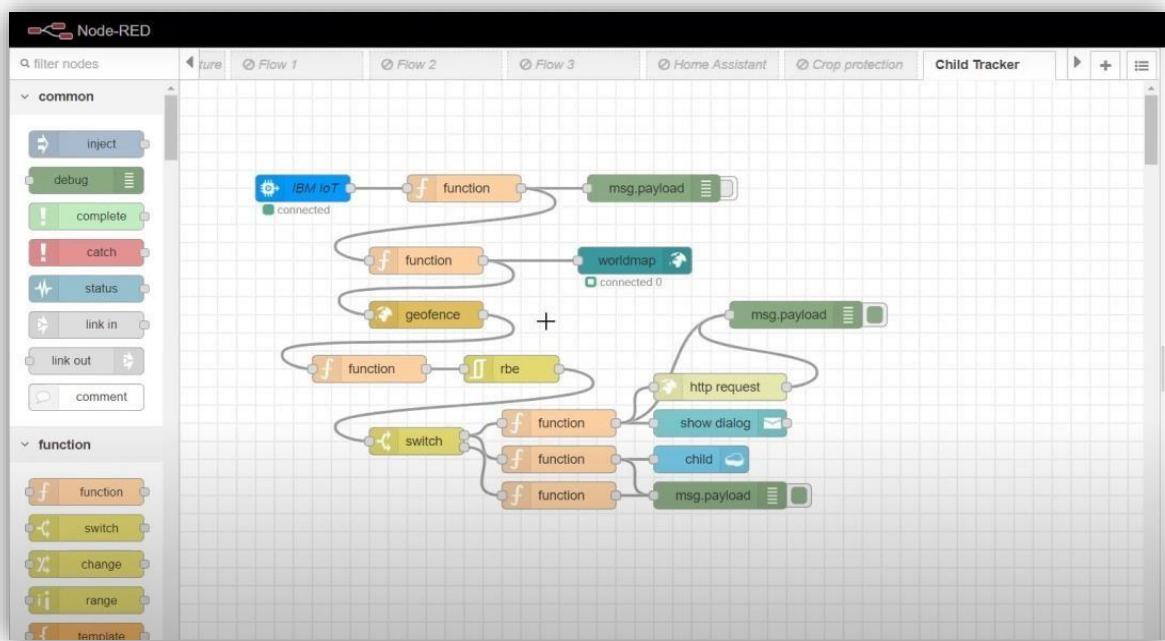


Develop The Web Application Using Node-RED

Date	17/11/2022
Team ID	PNT2022TMID48980
Project Name	Project-IoT Based Safety Gadget For Child Safety Monitoring & Notification
MaximumMarks	2 Marks

Aim:

To Develop the web application using Node-RED platform



Steps to be Followed:

- Open a Node-RED project
- Add source code to get child location in python

script.py - C:\Users\McVin\script.py (3.7.9)

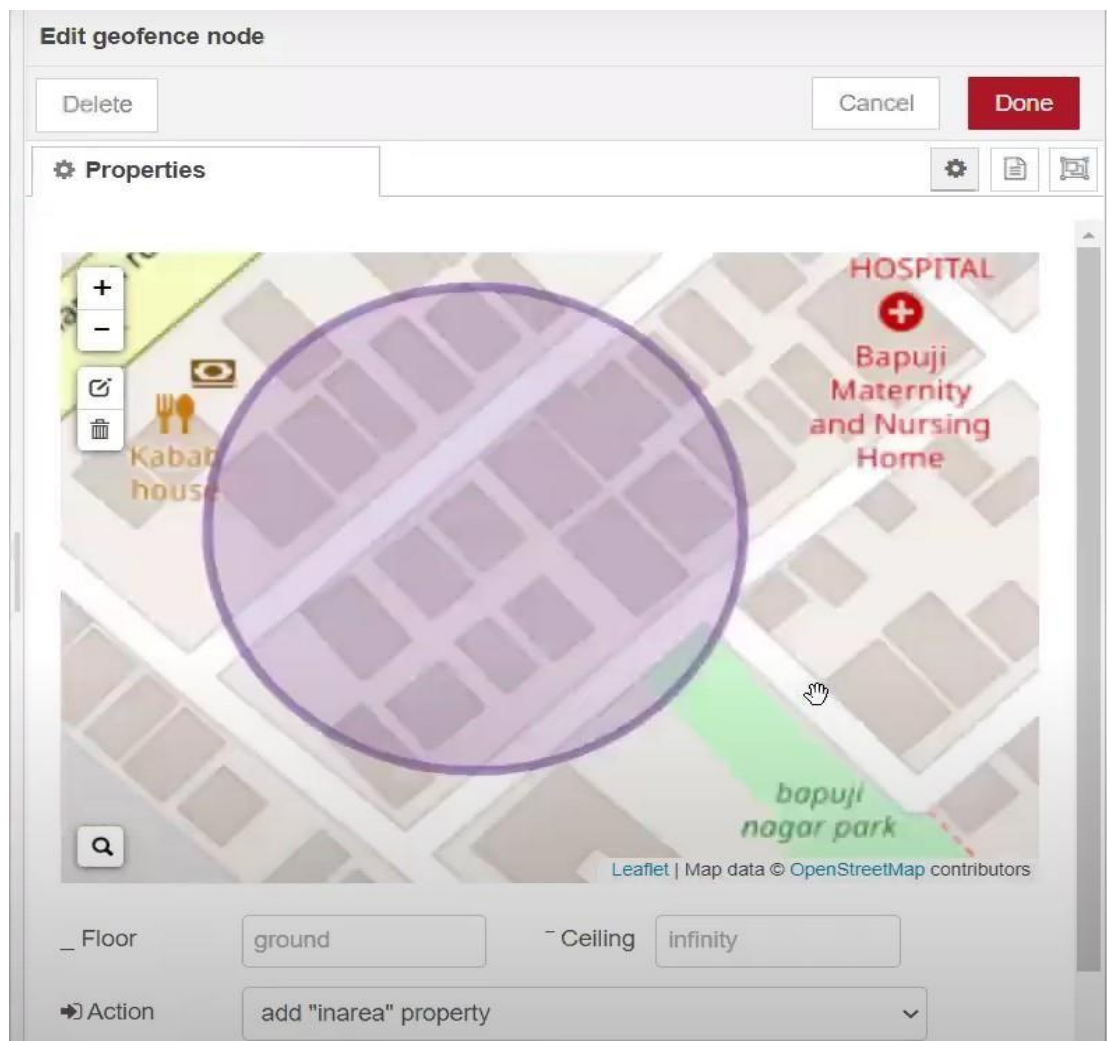
File Edit Format Run Options Window Help

```
import json
import time
import wiotp.sdk.device
myconfig = {
    "identity": {
        "orgId": "af19wm",
        "typeId": "12345678",
        "deviceId": "12345678"
    },
    "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(3)
    client.disconnect()
|
```

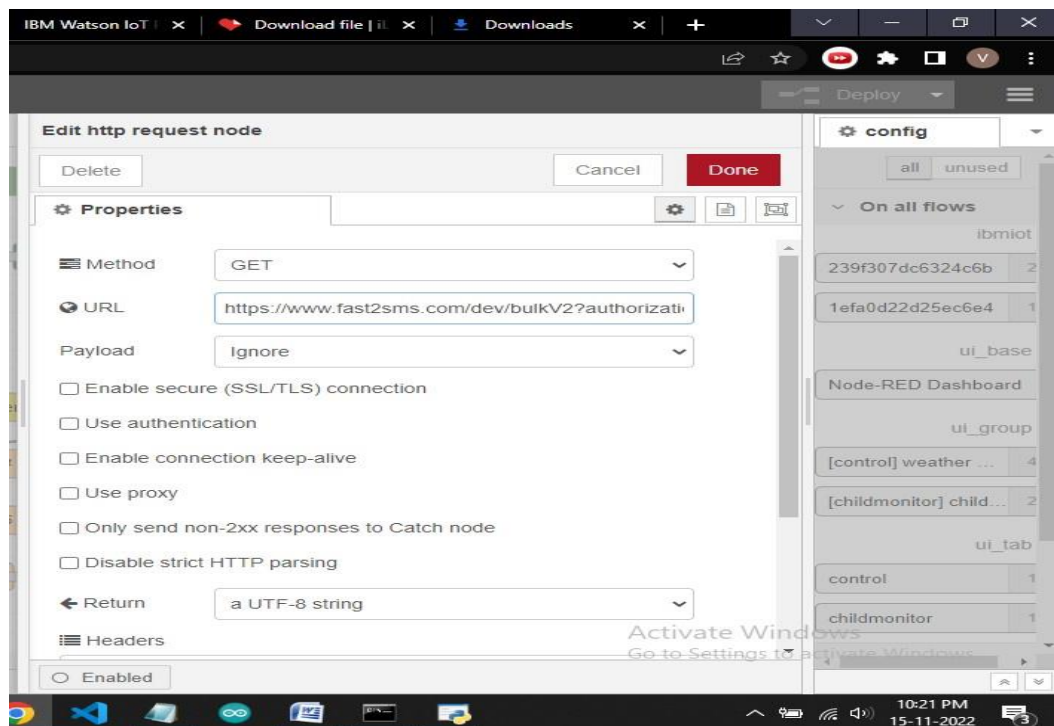
Windows Start button and search bar with text "Type here to search"



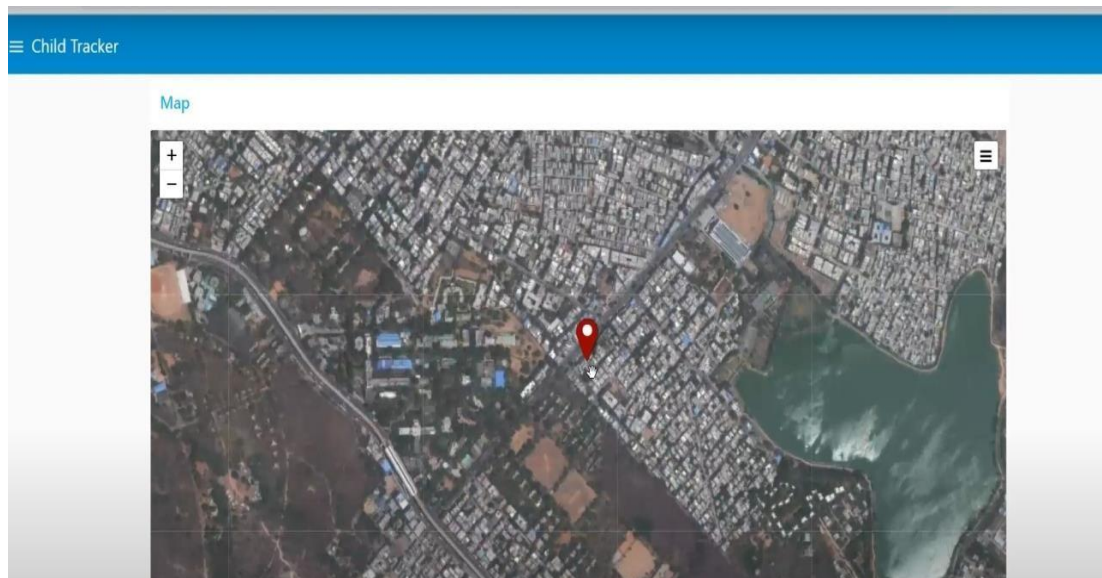
Created the GeoFence



- Edit the HTTP Request URL



- Locate the child



- Deploy

Edit geofence node
Delete
Cancel
Done

Properties

⚙️
📄
🗺️

[Leaflet](#) | Map data © [OpenStreetMap](#) contributors

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 }
          
```

_ Floor

ground

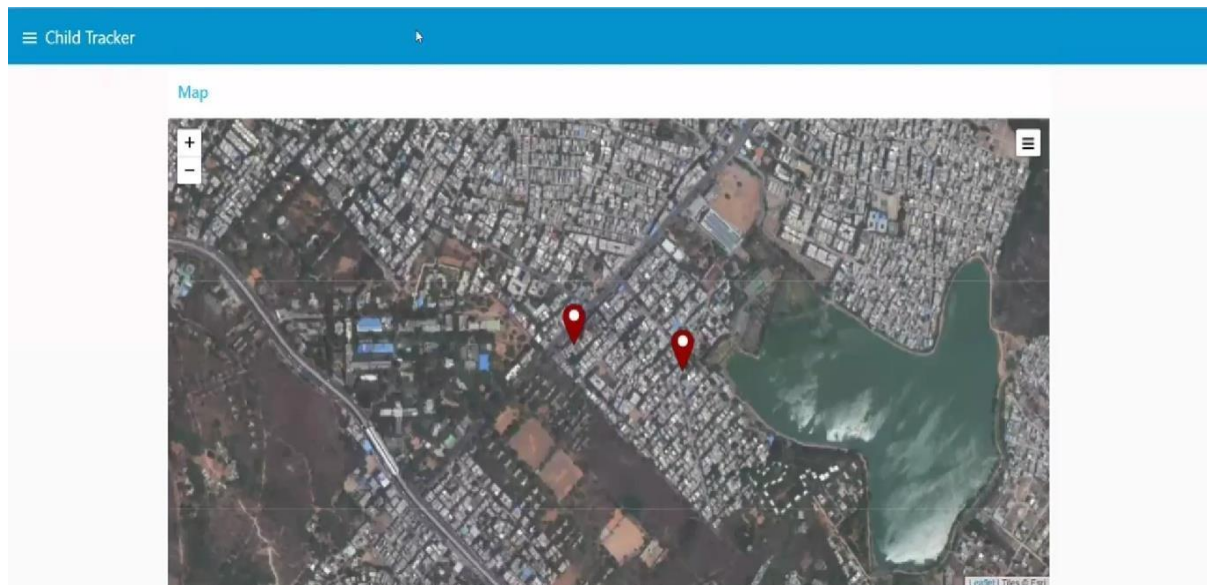
- Ceiling

infinity

- ```
Editor - C:\Users\HP\Desktop\child.py Python 3.7.4
child.py
1 import json
2 import wiotp.sdk.device
3 import time
4
5 myConfig = {
6 "identity": {
7 "orgId": "af19wm",
8 "typeId": "12345678",
9 "deviceId": "12345678"
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:**

Thus to develop a web application using Node-RED to find the location of the child has been created successfully.