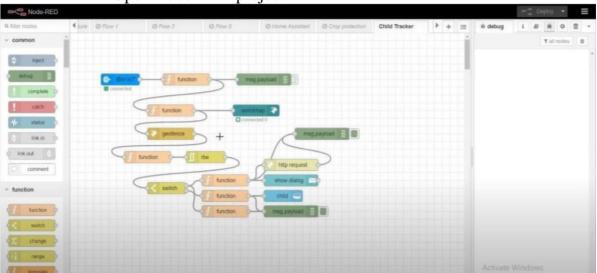
## **Develop A Web Application Using Node-RED**

Date	26 October 2022
Team ID	PNT2022TMID31252
Project Name	Project- IoT Based Safety Gadget For Child
	Safety Monitoring & Notification
Maximum Marks	2 Marks

## Steps Followed:

• Open Node-RED project



• Added code to get child location in python

```
import json
import wiotp.sdk.device
import time

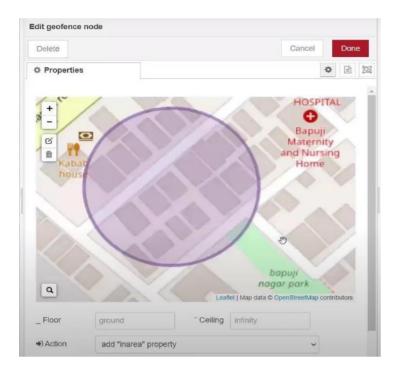
myConfig = {
    "identity": {
        "orgId=: "hj5fmy",
        "typeId": "NodeMCU",
        "deviceId": "12345"
},
    "auth": {
        "token": "12345678"
}
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

fhile True:
    name= "Smartbridge"
        fin area location
        latitude= 17.4225176
        longitude= 78.5458842
        fout area location

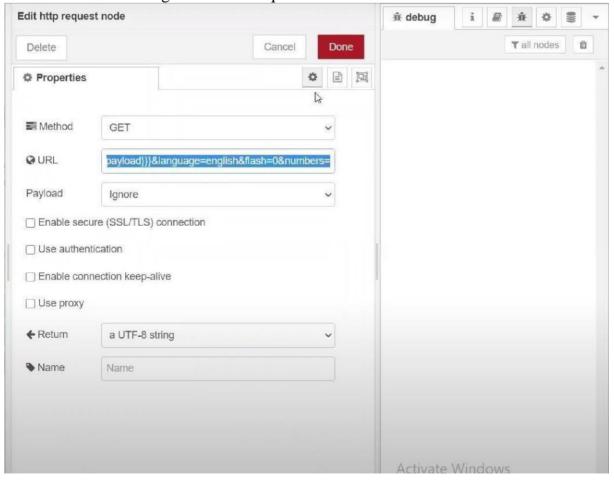
        flatitude= 17.421972
        flongitude= 78.5488783
        myData=('name': name, 'lat':latitude, 'lon':longitude)
        client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
        print("Data published to IBM IoT platfrom: ",myData)

client.disconnect()
```

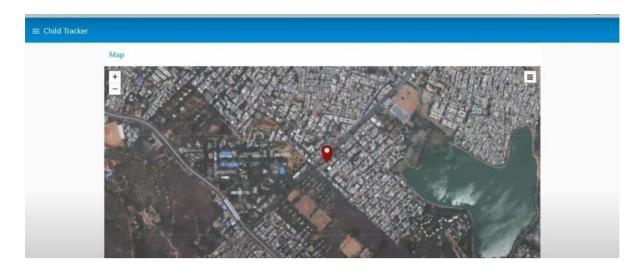
## Created the GeoFence



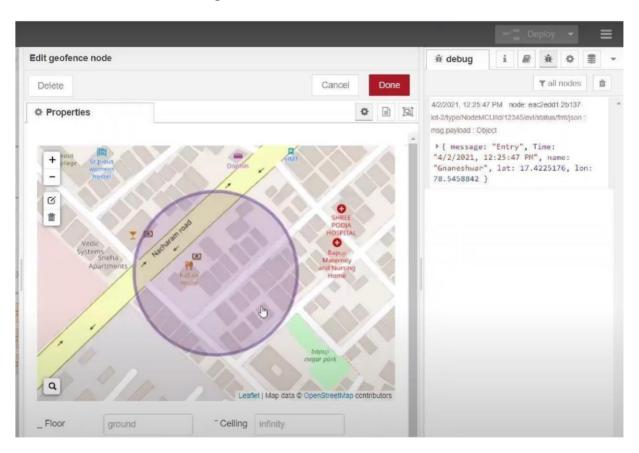
Editing the HTTP Request URL



## • Located the child



Created the geofence node



• PythonscriptsendingrequeststoIBMCloud

```
Circonsole 2/A S Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
           child.py
              import json
import wiotp.sdk.device
import time
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Data published to IBM IoT platfrom:
     4 5 myConfig = {
6 "identity": {
7 "orgId": "hj5fmy",
8 "typeId": "NodeMCU",
9 "deviceId": "12345"
                                   },
"auth": {
    "token": "12345678"
 13 }
14 }
15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
16 client.connect()
18 while True:
19 name= "Smartbridge"
20 #in area location
20
21
22
23
24
25
26
27
28
                                      #out area location
                                         latitude= 17.4219272
                                    longitude= 78.5488783
myData={'name': name, 'lat':latitude, 'lon':longitude}
client.publishEvent(eventId="status", msgFormat="json'
print("Data published to IBM IoT platfrom: ",myData)
time.sleep(5)
                                                                                                                                                                                                                                                                                                                                                                                      data=myData, qos=0, onPub
 33
34 client.disconnect()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Data published to IBM IoT platfrom:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Data published to IBM IoT platfrom:
```

Afterrunningthescript, the webUI shows "Person is not in the particular area"



Result: Successfully develop daweb applicationusingNode-RED