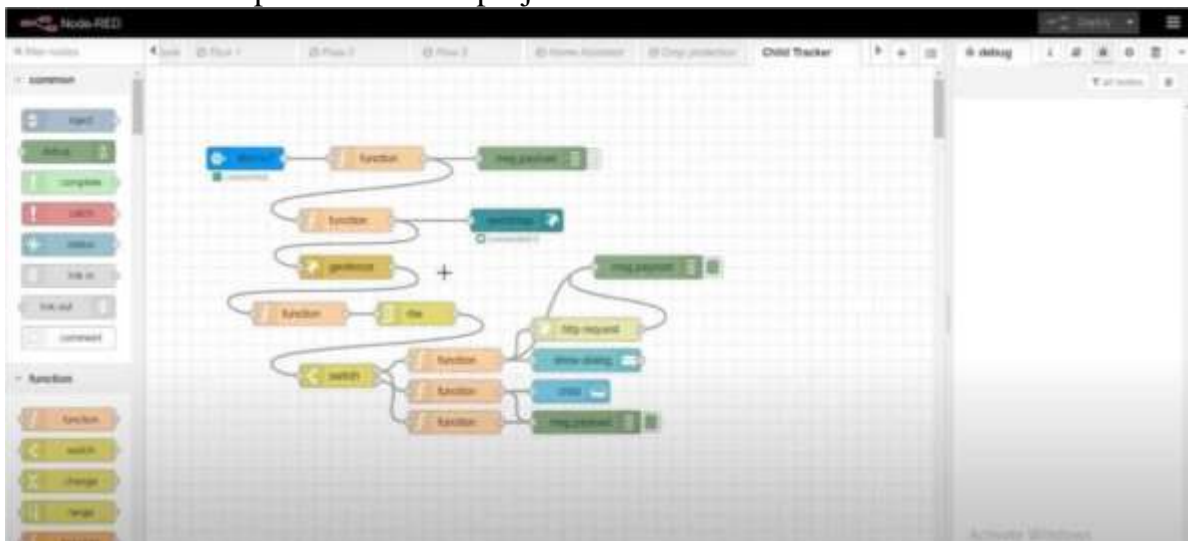# Develop A Web Application Using Node-RED

Team ID	PNT2022TMID05567
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()

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()
```
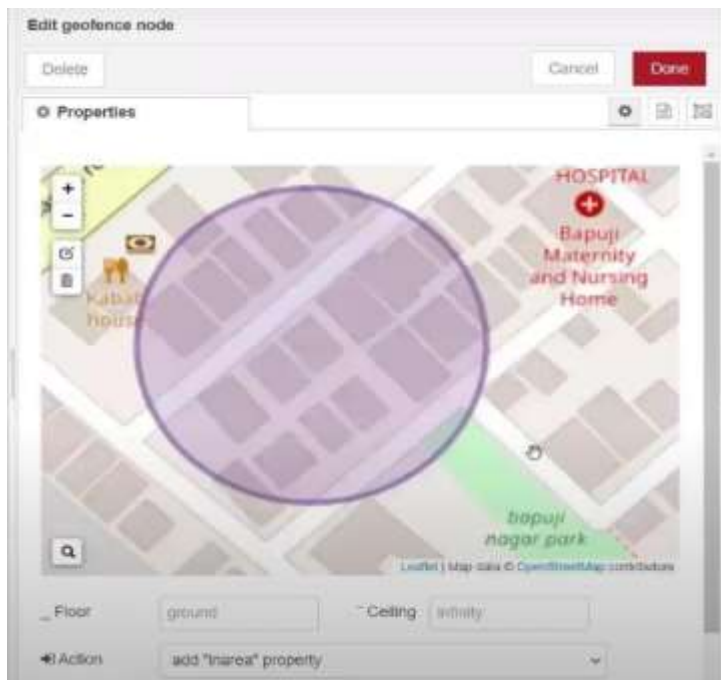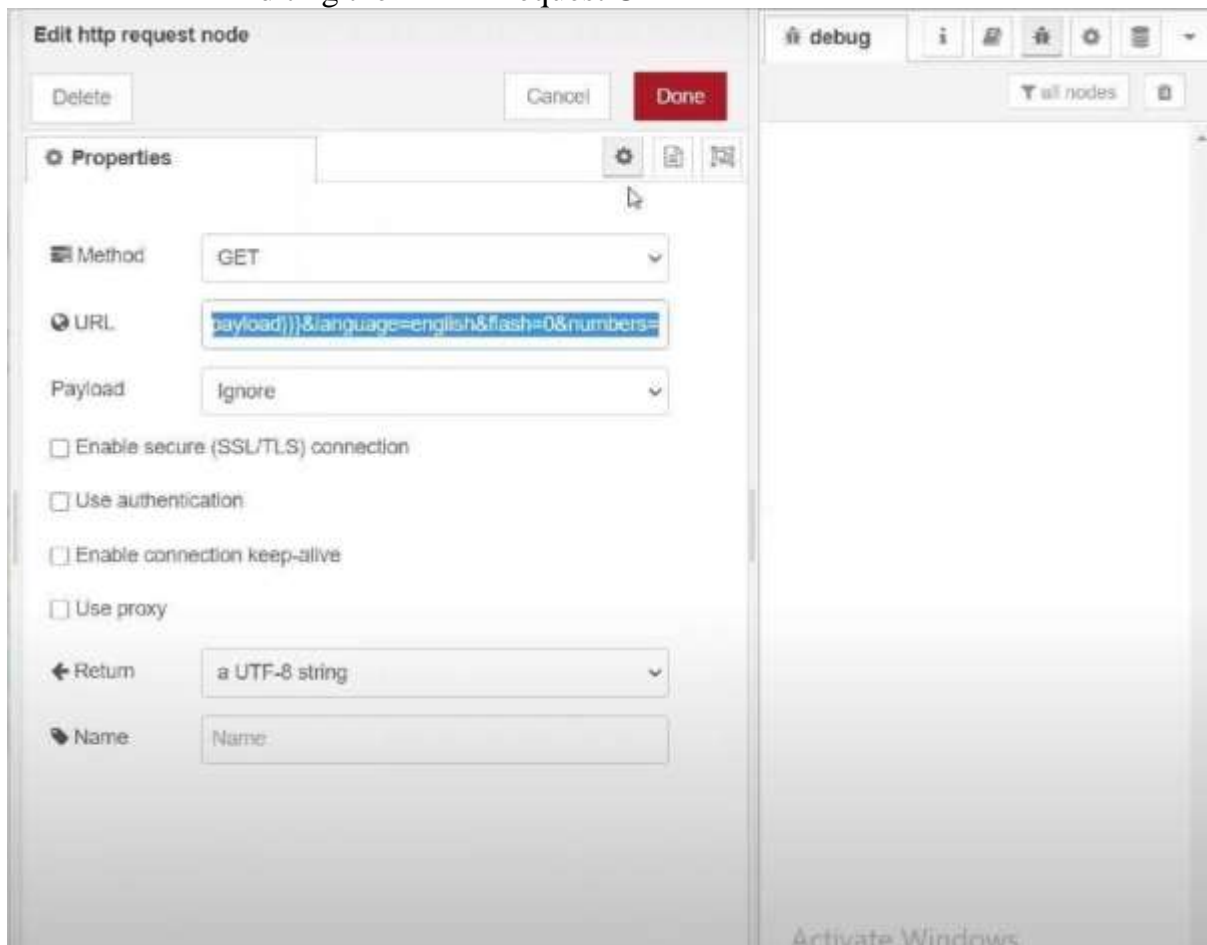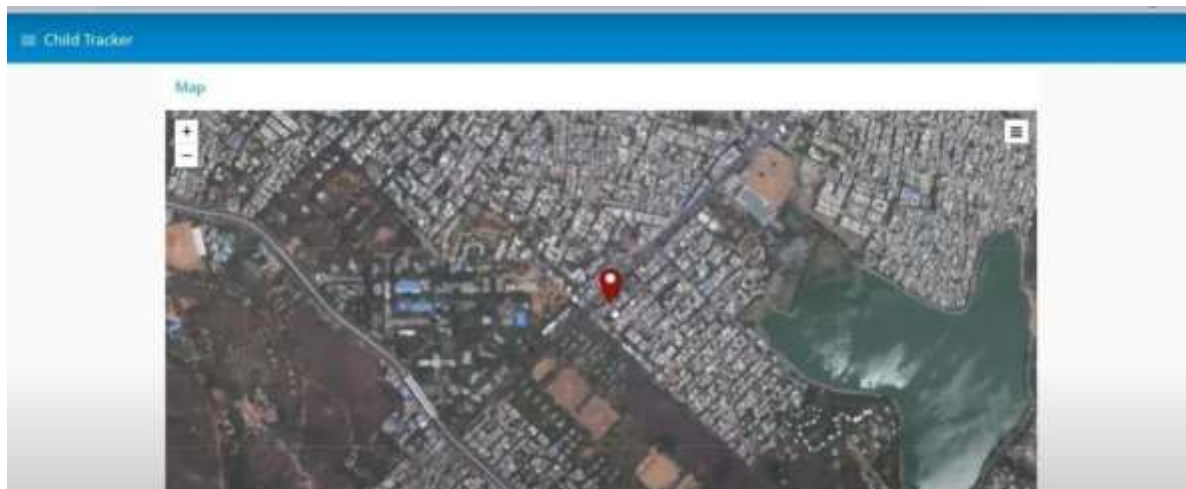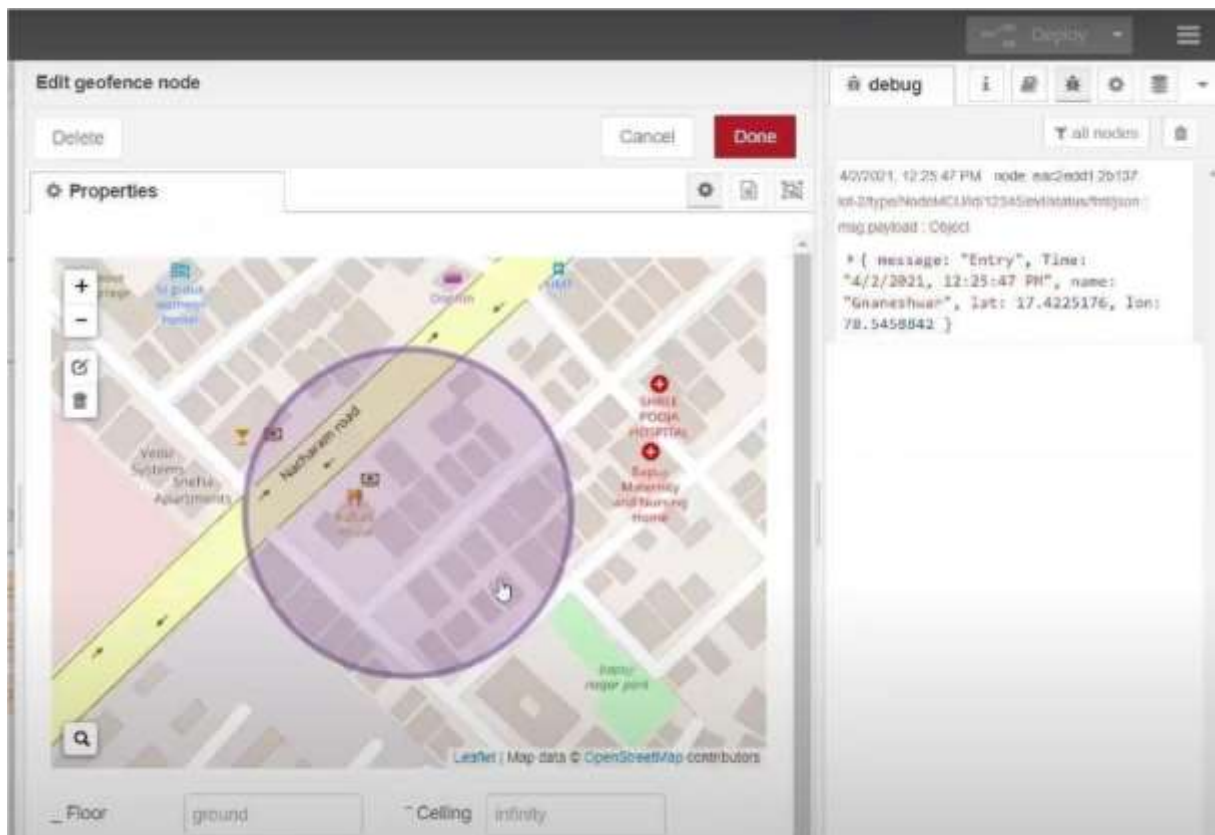
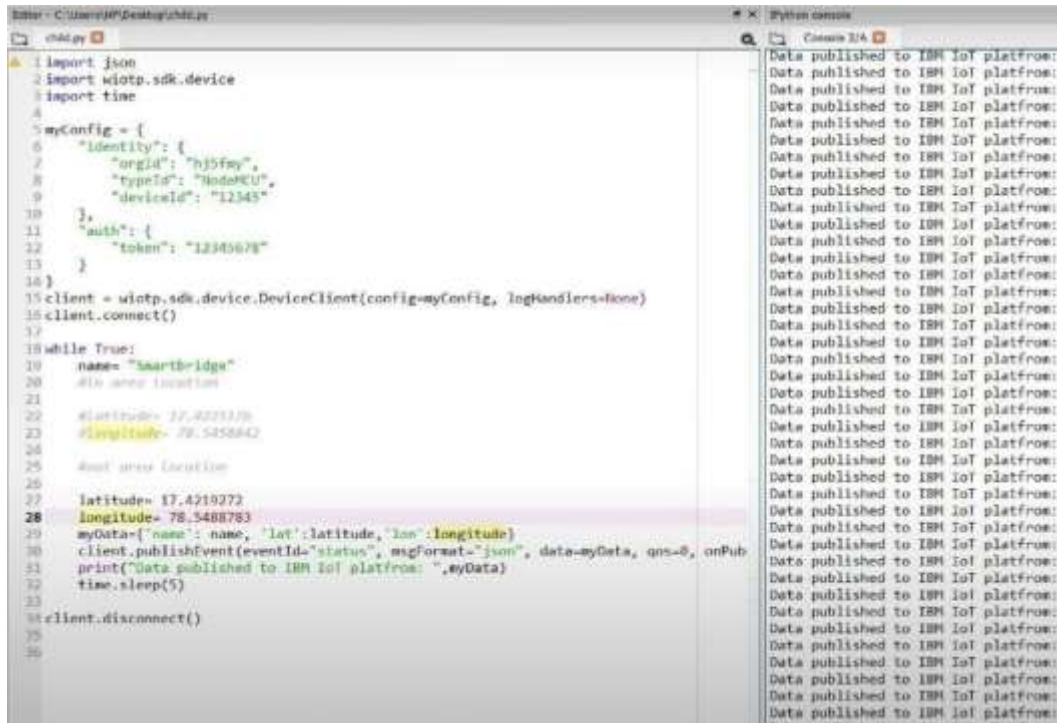Created the GeoFence

Editing the HTTP Request URL

- Located the child

Created the geofence node

- Pythonscriptsendingrequeststo IBMCloud
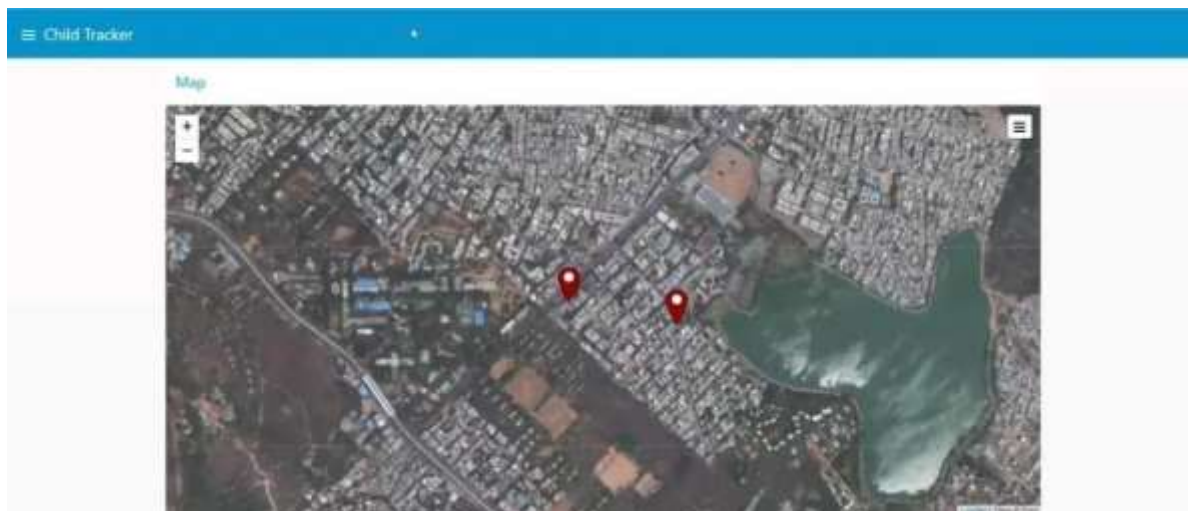


```
1 import json
2 import wiotp.sdk.device
3 import time
4
5 myConfig = {
6     "identity": {
7         "orgId": "hj5fmy",
8         "typeId": "NodeMCU",
9         "deviceId": "12345"
10    },
11    "auth": {
12        "token": "12345678"
13    }
14 }
15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
16 client.connect()
17
18 while True:
19     name= "SmartBridge"
20     #In area location
21
22     #latitude= 17.4223170
23     #longitude= 78.5458642
24
25     #out area location
26
27     latitude= 17.4210272
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 platfrom: ",myData)
32     time.sleep(5)
33
34 client.disconnect()
35
36
```

Afterrunningthescript,thewebUIshows"Personisnotintheparticulararea"

Result:SuccessfullydevelopedawebapplicationusingNode-RED