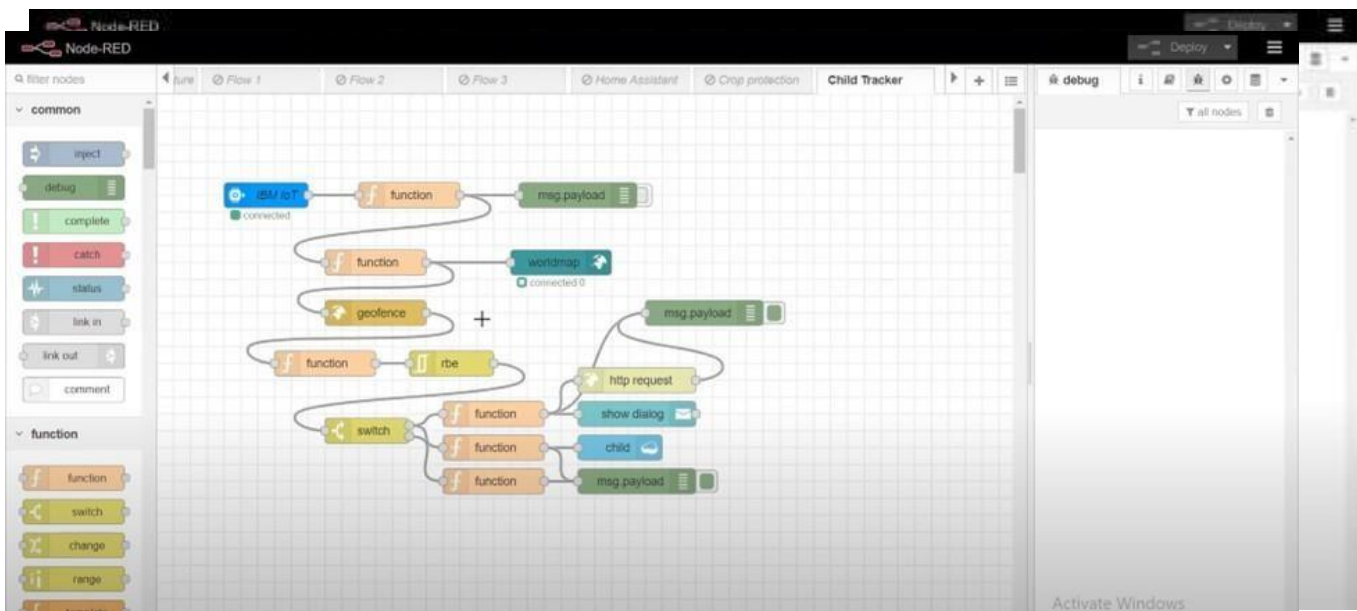


Develop A Web Application Using Node-RED

Team ID	PNT2022TMID23841
Project Name	IoT based Safety Gadget for Child Safety, monitoring and notification
TEAM LEADER & TEAM MEMBERS	1. DHARANI N 2. ADITHYA V 3. DEEPIKA B 4. GOPIKA M

Step 1: Opened a Node-RED project



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

myConfig = {
  "identity": {
    "orgId": "hj5fmg",
    "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

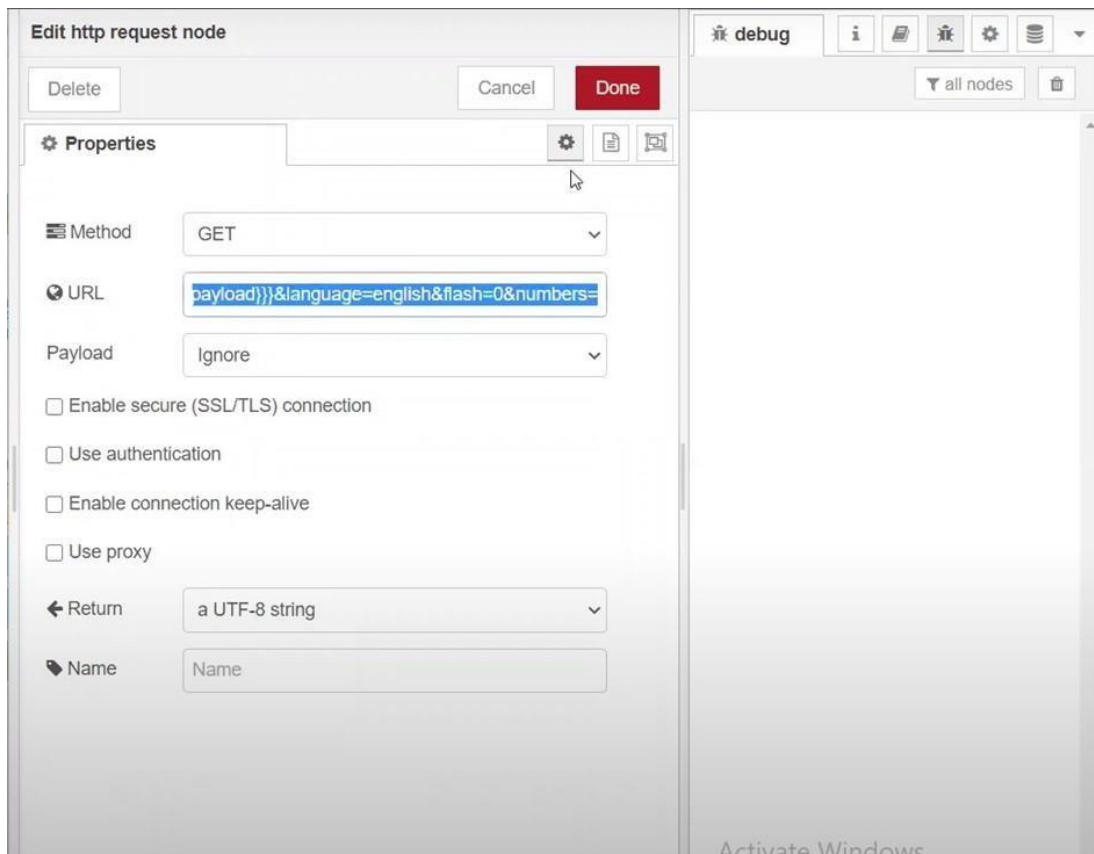
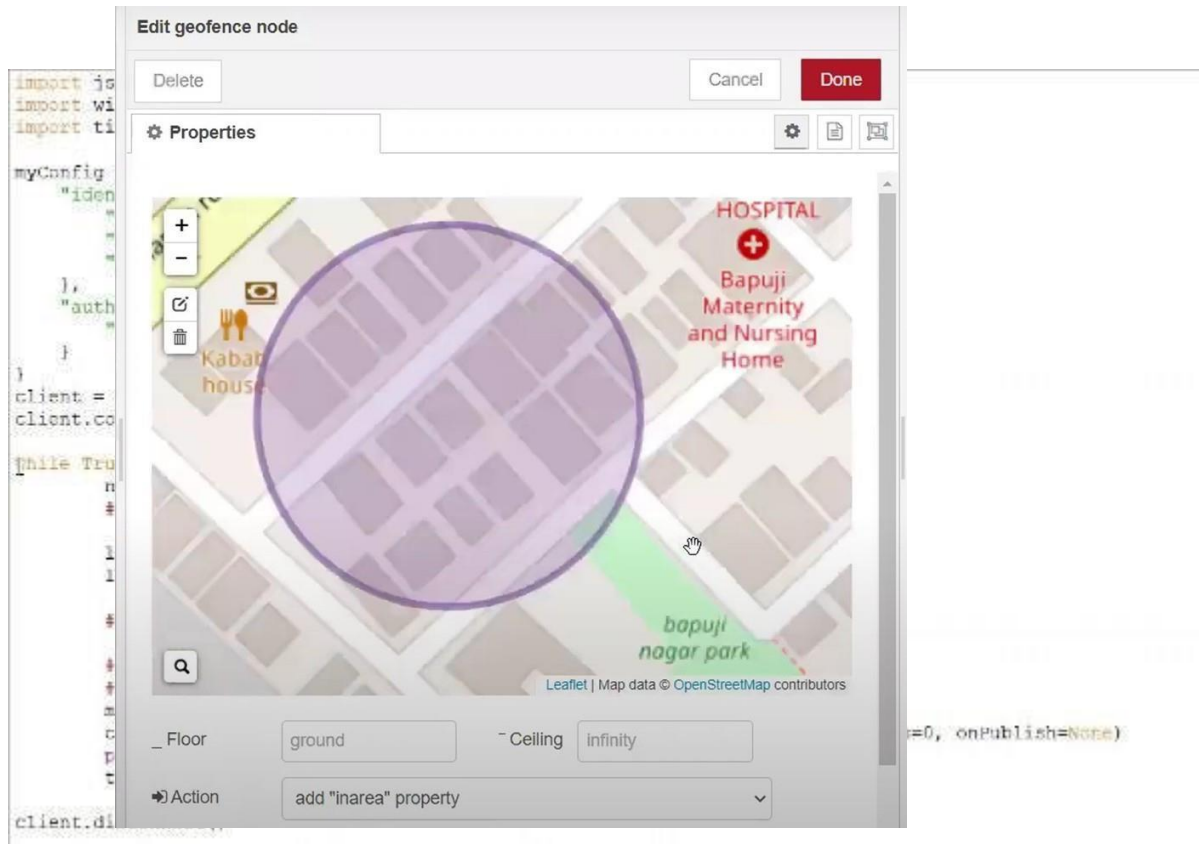
  latitude= 17.4225176
  longitude= 78.5458842

  #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()
```

Step 2: Added code to get child location in python



Step 3: Created the Geo-Fence

The screenshot displays a multi-part interface for a Child Tracker application. At the top, a blue header bar contains the text "Child Tracker". Below this, a map shows a city area with a red pin indicating a location. A detailed view of a geofence node is shown, featuring a map with a purple circular geofence centered on a location. The map includes labels for "Nacharam road", "Vedic Systems Sheela Apartments", "Kubali House", "Doplin", "SHREE POOJA HOSPITAL", "Bapuji Maternity and Nursing Home", and "bapuji nagar park". The interface also includes a "Properties" panel, a "debug" console, and a "Deploy" button. The debug console shows a message: "4/2/2021, 12:25:47 PM node: eac2edd1.2b137", "lot-2/type/NodeMCUID/12345/evl/status/fmt/json", "msg payload: Object", and a JSON object: {"message": "Entry", "Time": "4/2/2021, 12:25:47 PM", "name": "Gnaneswar", "lat": 17.4225176, "lon": 78.5458842}. At the bottom, a Python script is shown in a code editor, defining a device configuration and a loop that publishes location data to the IBM IoT platform.

Child Tracker

Map

Deploy

Edit geofence node

Delete Cancel Done

Properties

debug

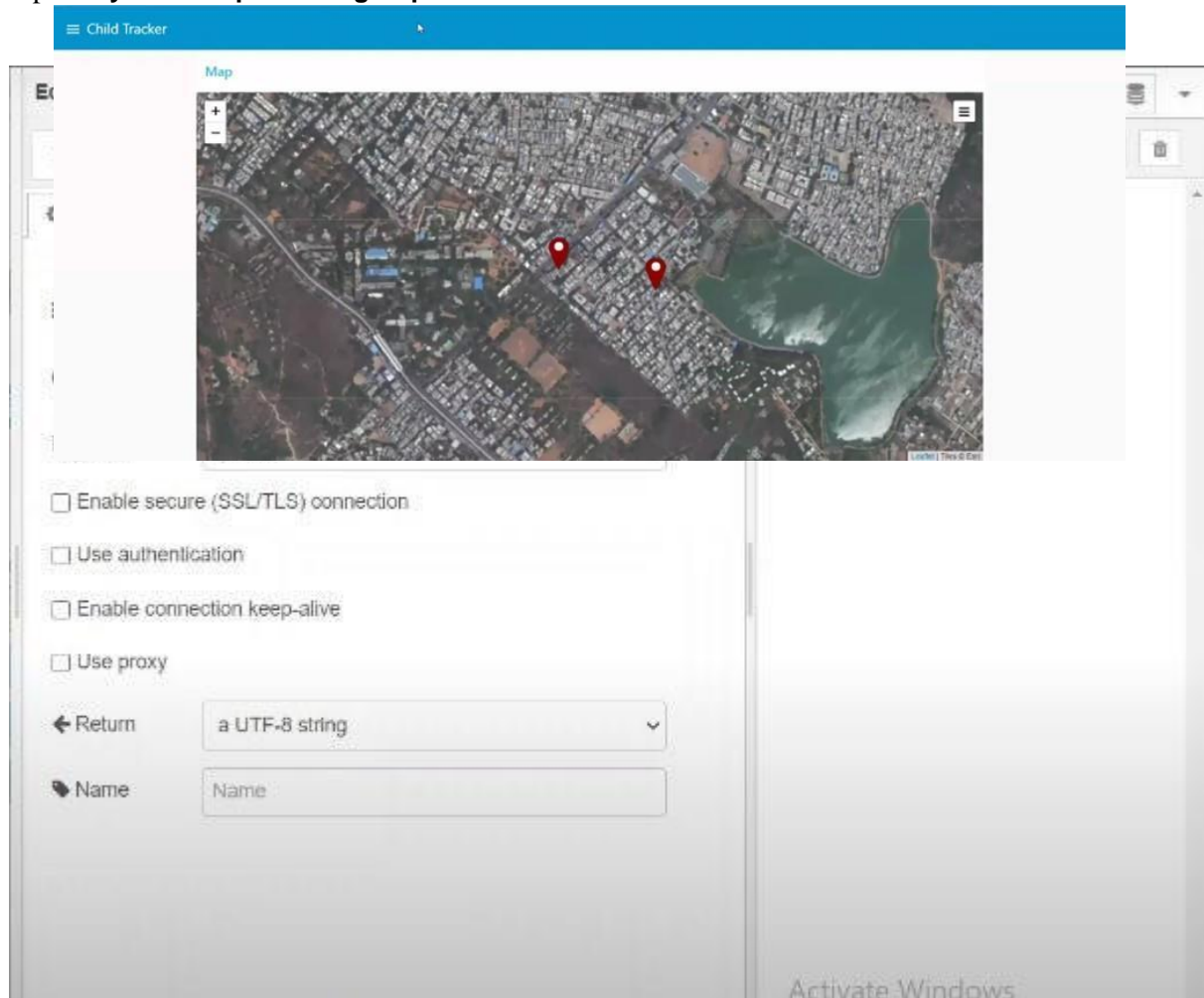
4/2/2021, 12:25:47 PM node: eac2edd1.2b137
lot-2/type/NodeMCUID/12345/evl/status/fmt/json :
msg payload: Object
{ message: "Entry", Time: "4/2/2021, 12:25:47 PM", name: "Gnaneswar", lat: 17.4225176, lon: 78.5458842 }

```
1 import json
2 import wiotp.sdk.device
3 import time
4
5 myConfig = {
6     "identity": {
7         "orgId": "h35fay",
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
```

Console 2/A

Data published to IBM IoT platform:

Step 4 : Python script sending requests to IBM Cloud



Step 5: Editing the HTTP Request URL

