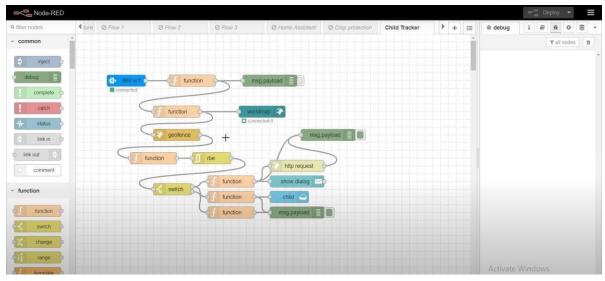
Develop The Web Application Using Node-RED

Aim: Develop the web application using Node-RED Steps Followed:

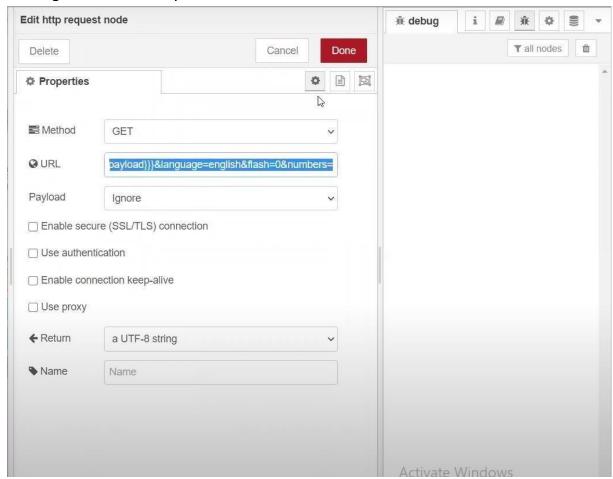
• Opened a Node-RED project



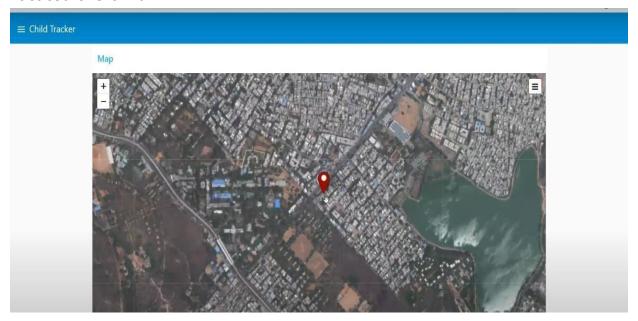
• Added code to get child location in python

```
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 platfrom: ",myData)
           time.sleep(5)
client.disconnect()
```

• Editing the HTTP Request URL



Located the child



Python script sending requests to IBM Cloud

```
Editor - C:\Users\HP\Desktop\child.py
                                                                                         ₽ × IPython console
child.py 🖸
                                                                                           Console 2/A 🛛
                                                                                              Data published to IBM IoT platfrom:
▲ 1 import json
                                                                                              Data published to IBM IoT platfrom:
  2 import wiotp.sdk.device
                                                                                              Data published to IBM IoT platfrom:
  3 import time
                                                                                              Data published to IBM IoT platfrom:
                                                                                              Data published to IBM IoT platfrom:
  5 myConfig = {
                                                                                              Data published to IBM IoT platfrom:
        "identity": {
                                                                                              Data published to IBM IoT platfrom:
            "orgId": "hj5fmy",
"typeId": "NodeMCU",
                                                                                              Data published to IBM IoT platfrom:
  8
                                                                                              Data published to IBM IoT platfrom:
            "deviceId": "12345"
  9
                                                                                              Data published to IBM IoT platfrom:
 10
                                                                                              Data published to IBM IoT platfrom:
         'auth": {
 11
                                                                                              Data published to IBM IoT platfrom:
            "token": "12345678"
 12
                                                                                              Data published to IBM IoT platfrom:
 13
                                                                                              Data published to IBM IoT platfrom:
 14}
                                                                                              Data published to IBM IoT platfrom:
 15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
                                                                                              Data published to IBM IoT platfrom:
 16 client.connect()
                                                                                              Data published to IBM IoT platfrom:
 17
                                                                                              Data published to IBM IoT platfrom:
 18 while True:
                                                                                              Data published to IBM IoT platfrom:
 19
        name= "Smartbridge"
                                                                                              Data published to IBM IoT platfrom:
        #in area location
 20
                                                                                              Data published to IBM IoT platfrom:
 21
                                                                                              Data published to IBM IoT platfrom:
 22
        #Latitude= 17.4225176
                                                                                              Data published to IBM IoT platfrom:
 23
        #longitude= 78.5458842
                                                                                              Data published to IBM IoT platfrom:
 24
                                                                                              Data published to IBM IoT platfrom:
 25
        #out area location
                                                                                              Data published to IBM IoT platfrom:
 26
                                                                                              Data published to IBM IoT platfrom:
 27
        latitude= 17.4219272
                                                                                              Data published to IBM IoT platfrom:
 28
        longitude= 78.5488783
                                                                                              Data published to IBM IoT platfrom:
        myData={'name': name, 'lat':latitude,'lon':longitude}
 29
                                                                                              Data published to IBM IoT platfrom:
        client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPub
 30
                                                                                              Data published to IBM IoT platfrom:
 31
        print("Data published to IBM IoT platfrom: ",myData)
                                                                                              Data published to IBM IoT platfrom:
 32
        time.sleep(5)
                                                                                              Data published to IBM IoT platfrom:
                                                                                              Data published to IBM IoT platfrom:
 34 client.disconnect()
                                                                                              Data published to IBM IoT platfrom:
                                                                                              Data published to IBM IoT platfrom:
 36
                                                                                              Data published to IBM IoT platfrom:
                                                                                              Data published to IBM IoT platfrom:
                                                                                              Data published to IBM IoT platfrom:
                                                                                              Data published to IBM IoT platfrom:
```

• After running the script, the web UI shows "Person is not in the particular area"





Result: Successfully developed the web application using Node-RED