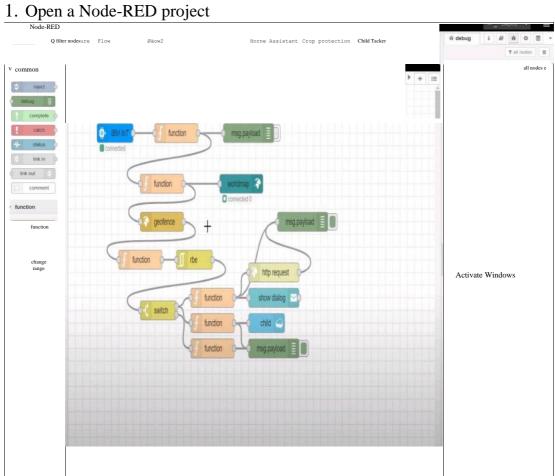
### Develop The Web Application Using Node-RED

1. To Develop the web application using Node-RED

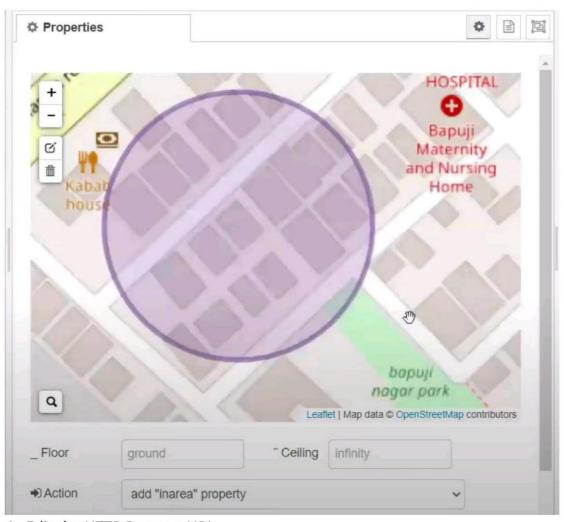
#### Steps:



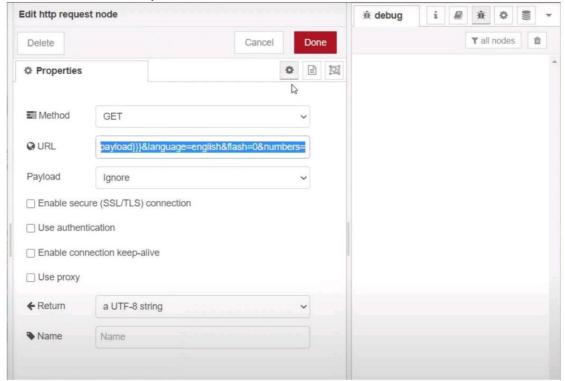
2. Add code to get child location in python

```
import j son import wiotp. sdk. device
import time
myconfig = {
  en": "12345678"
        "token
client = wiotp. sdk.device. DeviceClient
(config=myConfig, client. connect ())
Thi le True:
       name= "Smartbridge"
           area location
       latitude= 17 .4225176
longitude= 78.5458842
                                                              logHandler s=None )
        *out area location
        #latitude=
#longitude= 78.5488783 myData={ name' : name
: latitude, Ion : longitude} client. publishE
        (eventld=" status % msgFormat= print ("published to IBM 10T platfrom: %myData) t
         sleep (5)
client. disconnect ( )
                                                               son" data=myData, gos=0 ,onPublish=None)
```

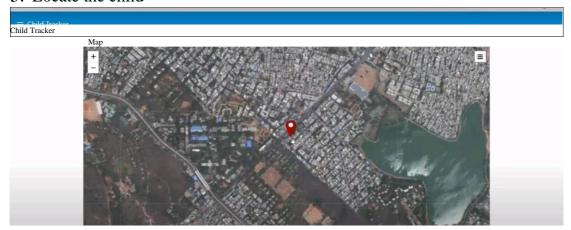
#### 3. Create the GeoFence



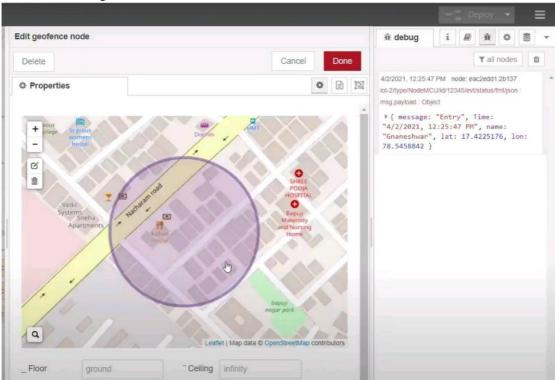
4. Edit the HTTP Request URL



### 5. Locate the child



## 6. Create the geofence node



### 7. Python script send requests to IBM Cloud



```
Data pu Is e o B o p at rom: Data published to IBM IOT platfrom:
A I import j son 2 import wiotp.
   sdk device
  3 import time
                                                                                         Data published to IBM 10T
                                                                                         platfrom:
  5
            myConfig = \{
                                                                                         Data published to IBM IOT
            "identity": {
  6
                                                                                         platfrom:
            "orgld": "hj5fmy%
  7
                                                                                         Data published to IBM 10T
  8
            "typeld": "NodeMCU",
                                                                                         platfrom:
            "deviceld " : "12345"
                                                                                         Data published to IBM 10T
 10
                                                                                         platfrom:
            "auth": {
 11
                                                                                         Data published to IBM 10T
                     "12345678"
 12
            "token
                                                                                         platfrom:
 13
                                                                                         Data published to IBM 10T
 14
          client = wiotp.sdk.device.DeviceC1ient(config=myConfig,
                                                                                         platfrom:
  15
 logHand1ers=None) 16 client. connect()
                                                                                         Data published to IBM 10T
                                                                                         platfrom:
 18
        while True:
                                                                                         Data published to IBM 10T
       name- "Smartbridge"
 19
                                                                                         platfrom:
 20
        #in area location
                                                                                         Data published to IBM 10T
 21
                                                                                         platfrom:
           *latitude-
                                                                                         Data published to IBM 10T
 17.4225176 23
                                                                                         platfrom:
          ongitude- 78.
 5458842
                                                                                         Data published to IBM 10T
  24 25 #out area
                                                                                         platfrom:
 location
                                                                                         Data published to IBM 10T
                                                                                         platfrom:
 27
          latitude= 17.4219272
                                                                                         Data published to IBM 10T
 28
          longitude= 78.5488783
 29
          myData={ 'name': name, 'lat': latitude, 'Ion': longitude}
                                                                                         platfrom:
          client. publishEvent(eventId="status", msgFormat="json", data=myData, qos=ø,
                                                                                         Data published to IBM IOT
          print("Data published to IBM 10T platfrom: ",myData) 32
 31
                                                                                         platfrom:
 sleep(5)
                                                                                         Data published to IBM IOT
                                                                                         platfrom:
 34 client. disconnect()
                                                                                         Data published to IBM IOT
 36
                                                                                         platfrom:
                                                                                         Data published to IBM IOT
                                                                                         platfrom:
                                                                                         Data published to IBM 10T
                                                                                         platfrom:
                                                                                         Data published to IBM 10T
                                                                                         platfrom:
                                                                                  onPub
```

Data published to IBM 10T platfrom: Data published to IBM 10T platfrom:

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



# Conclusion: Developed the web application using Node-RED Successfully