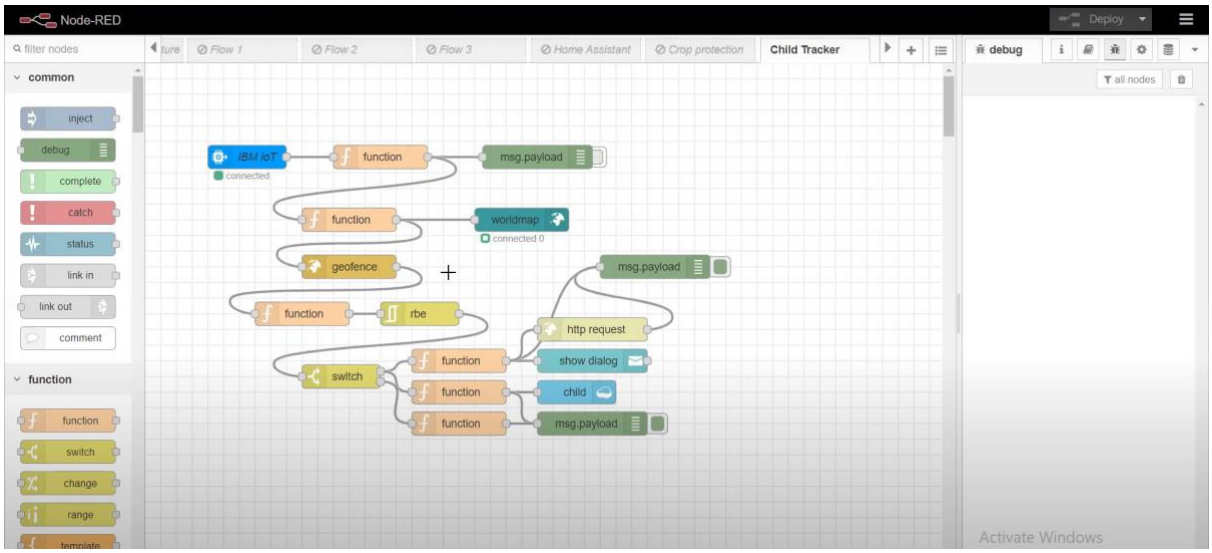
Develop The Web Application Using Node-RED

Aim:

Develop the web application using Node-RED.

Steps Followed:

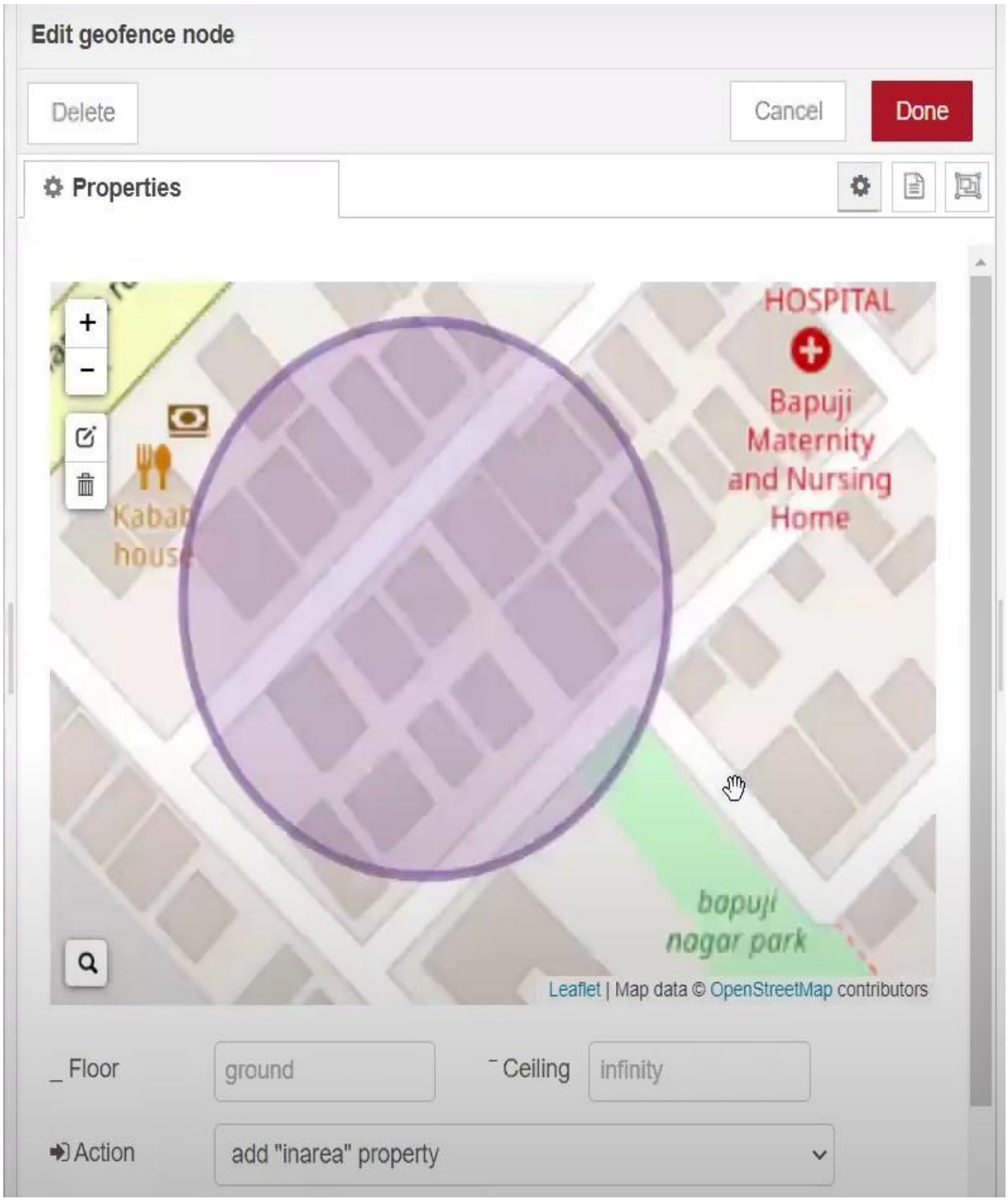
1. Opened a Node-RED project



2. Added code to get child location in python

```
*untitled*
File  Edit  Format  Run  Options  Window  Help
import json
import wiotp.sdk.device
import time
import ibmiotf.application
import ibmiotf.device
myConfig = {
 "identity": {
 "orgId": "qm8fs3",
 "typeId": "Nodemcu",
  "deviceId": "56432"
 },
 "auth": {
  "token": "i42n22r23s"
 }
}
Client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
Client.connect()
While True:
 Name= "childsafety"
 #in area location
 latitude= 17.4225176
 longitude= 78.5458842
 #out area location
 #Latitude= 9.28
 #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(20)
 Client.disconnect
```

3.created the geofence



4.Editing the HTTP Request URL

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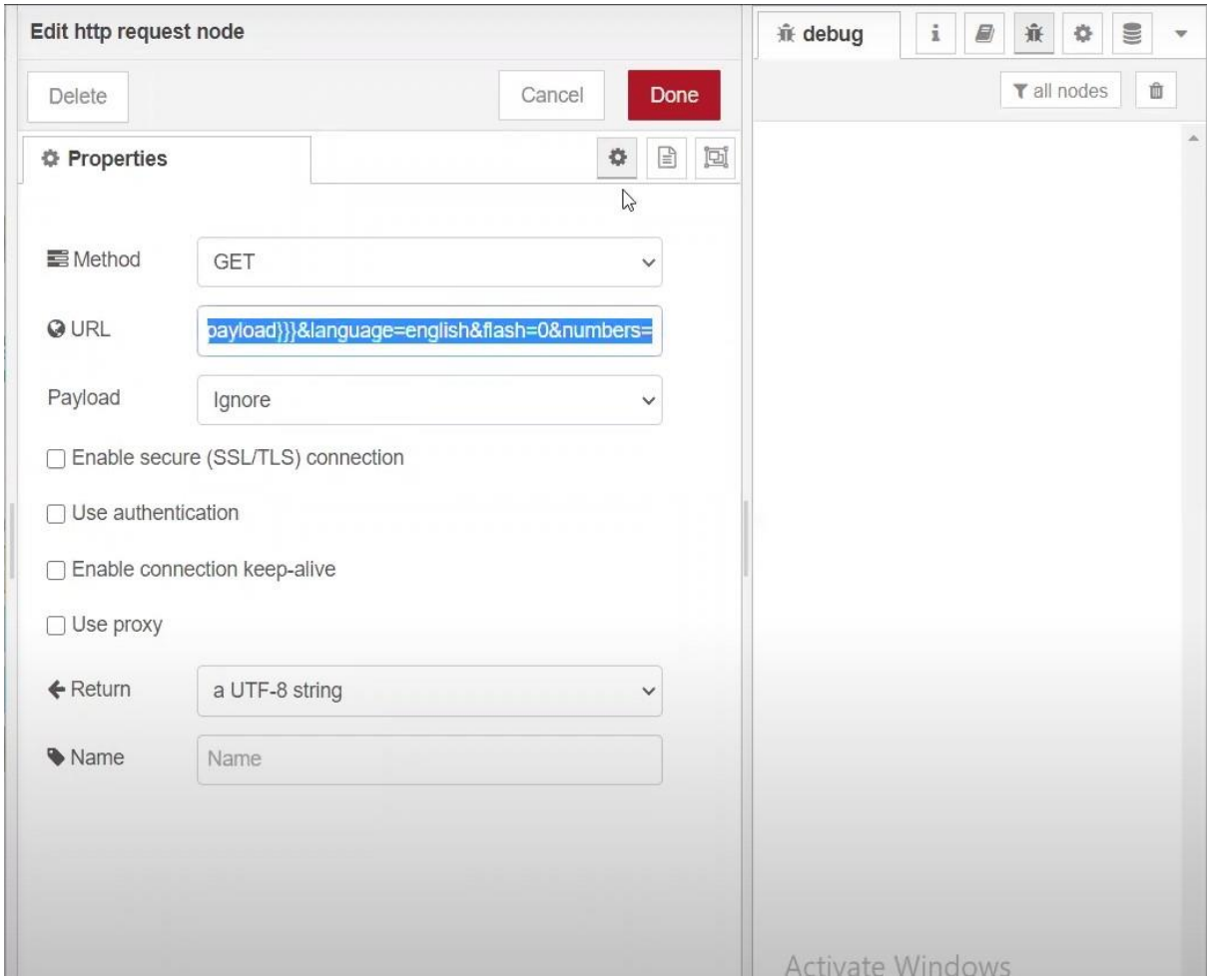
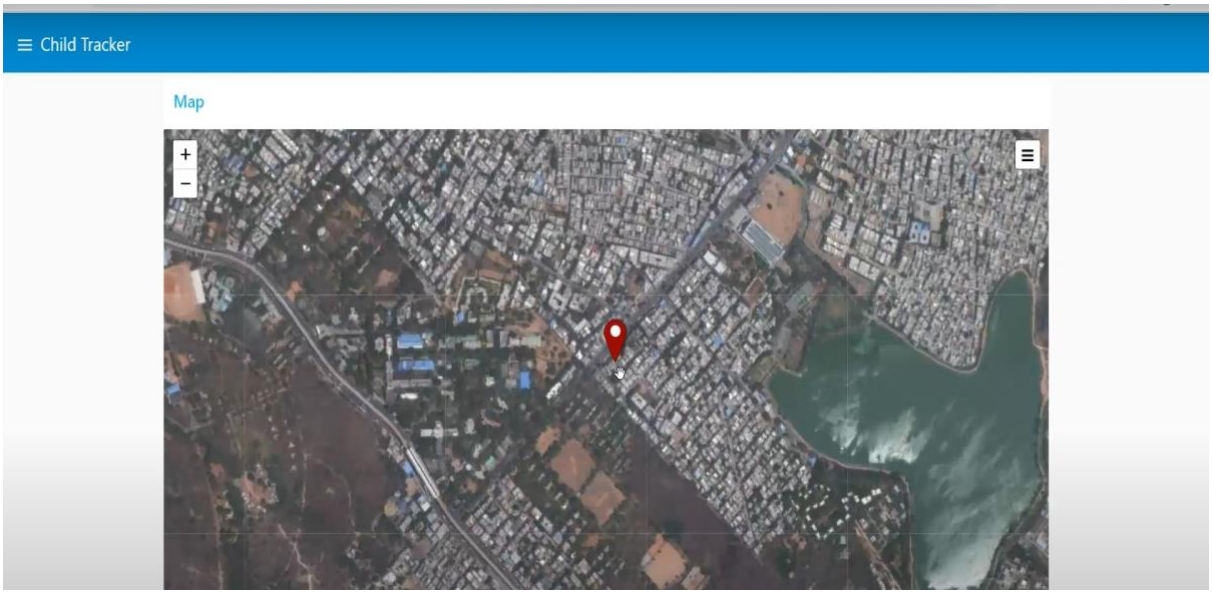
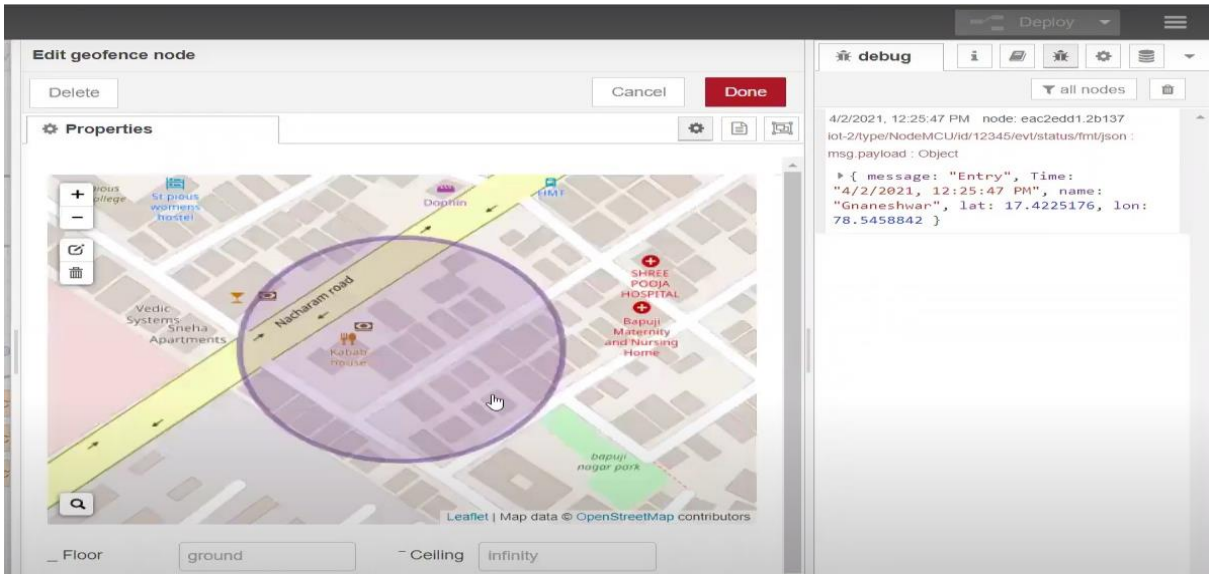
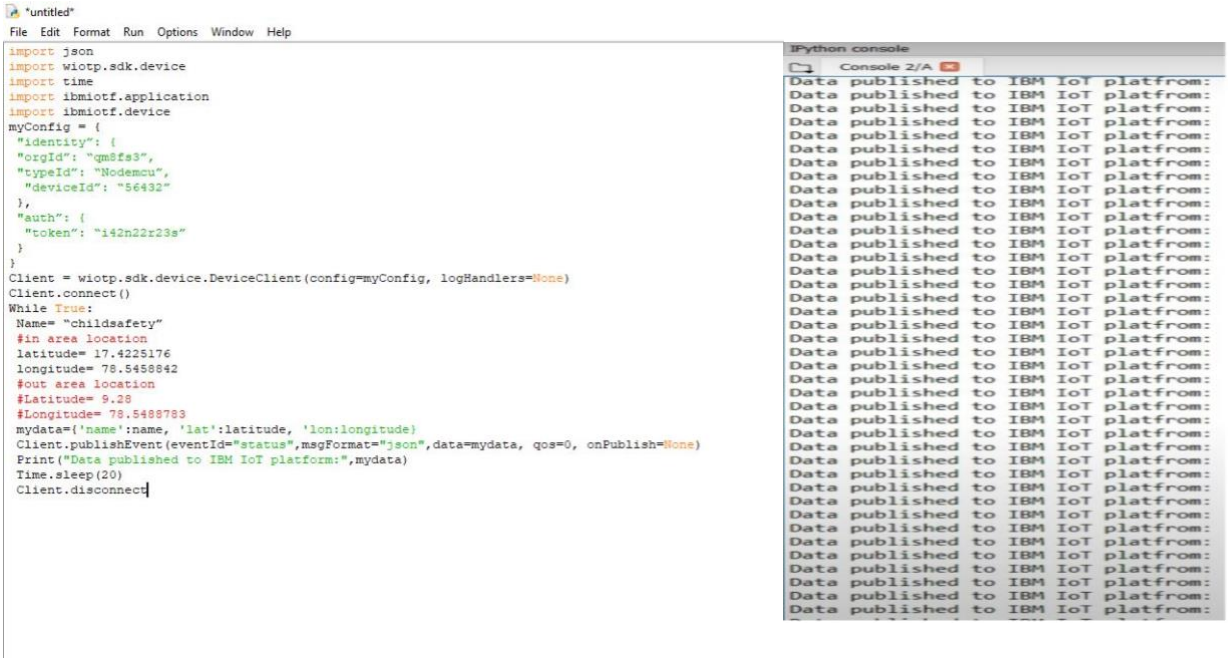

Edit http request node
Delete
Cancel
Done
Properties
Method
GET
URL
payload}}}&language=english&flash=0&numbers=
Payload
Ignore
Enable secure (SSL/TLS) connection
Use authentication
Enable connection keep-alive
Use proxy
Return
a UTF-8 string
Name
Name
debug
all nodes
Activate Windows


Child Tracker
Map

5.Located the child and Created the geofence node



6.Python script sending requests to IBM Cloud



7.After running the script, the web UI shows “Person is not in the particular area”

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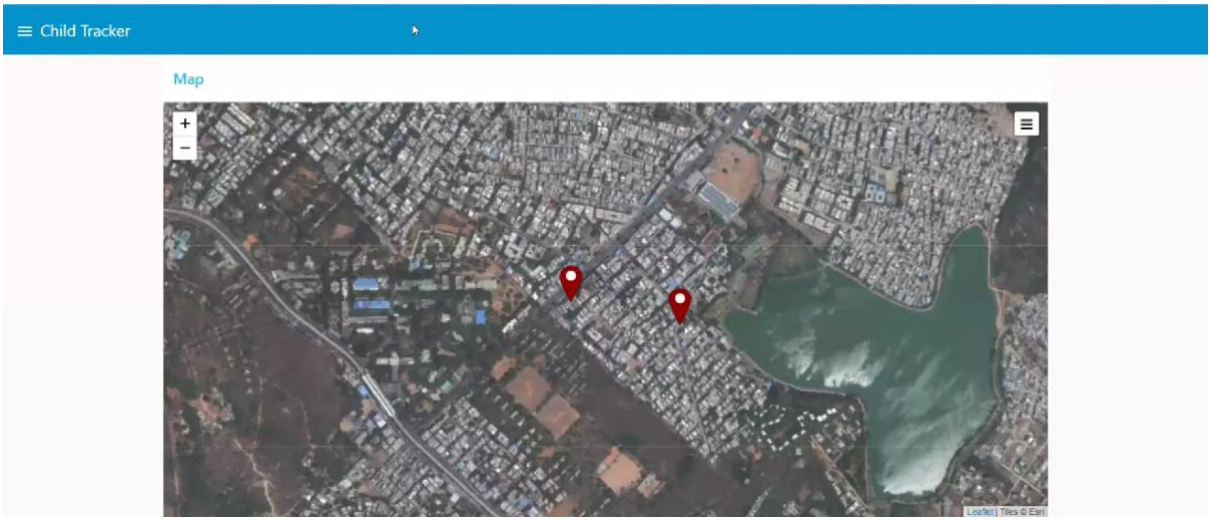

Result:

Successfully developed the web application using Node-RED

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PROJECT :IOT Based Safety Gadgets For Child Safety Monitoring& Notification