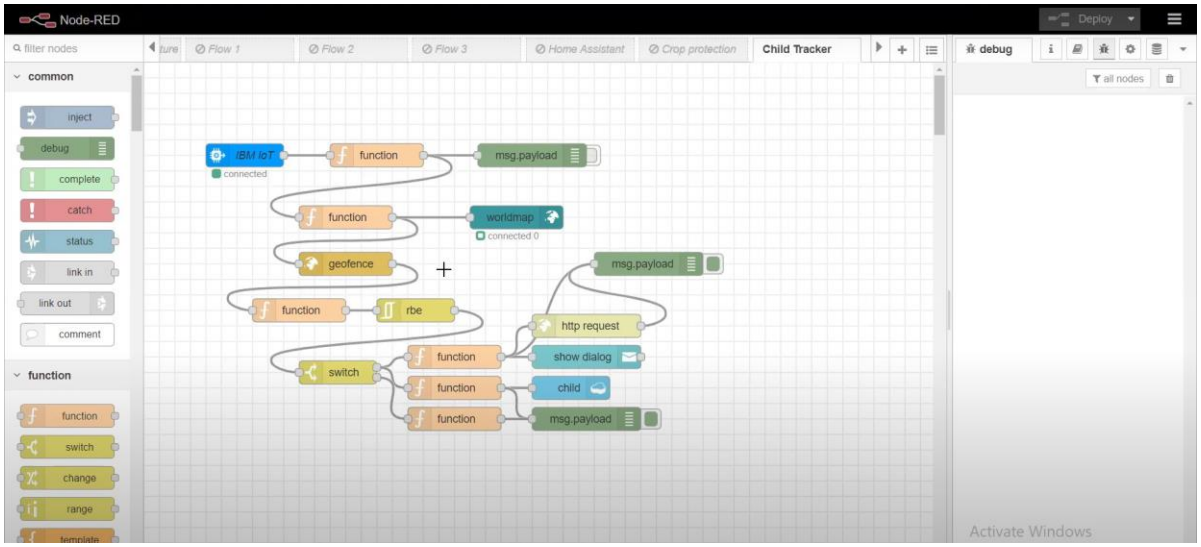
Develop A Web Application Using NODE-RED

Date	30 October 2022
Team ID	PNT2022TMID48274
Project Name	IoT Based Safety Gadget For Child Safety Monitoring & Notification.
Maximum Marks	2 Marks

Develop The Web Application Using Node-RED:

Steps:

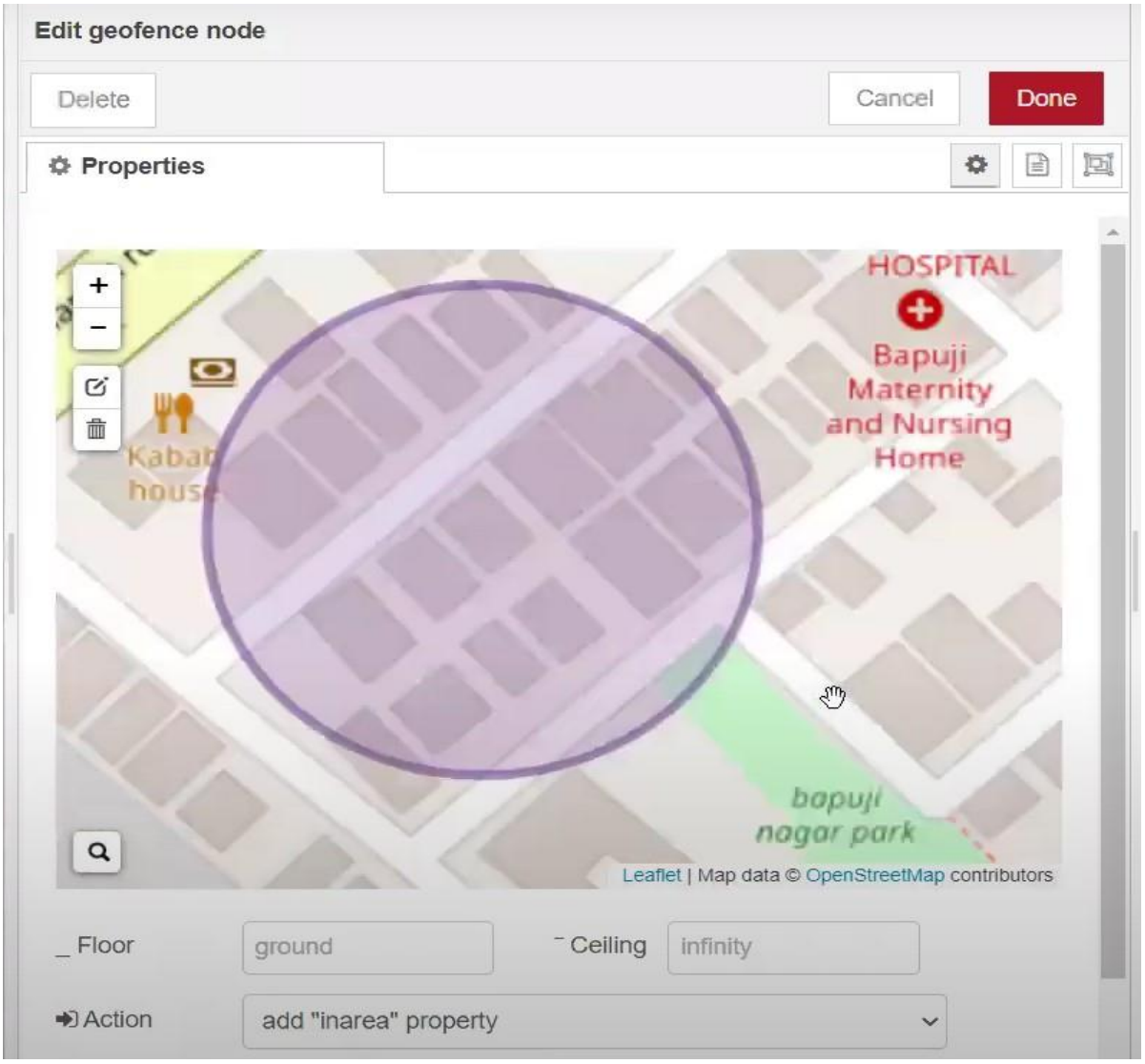
1.Opened a Node-RED project using the link.



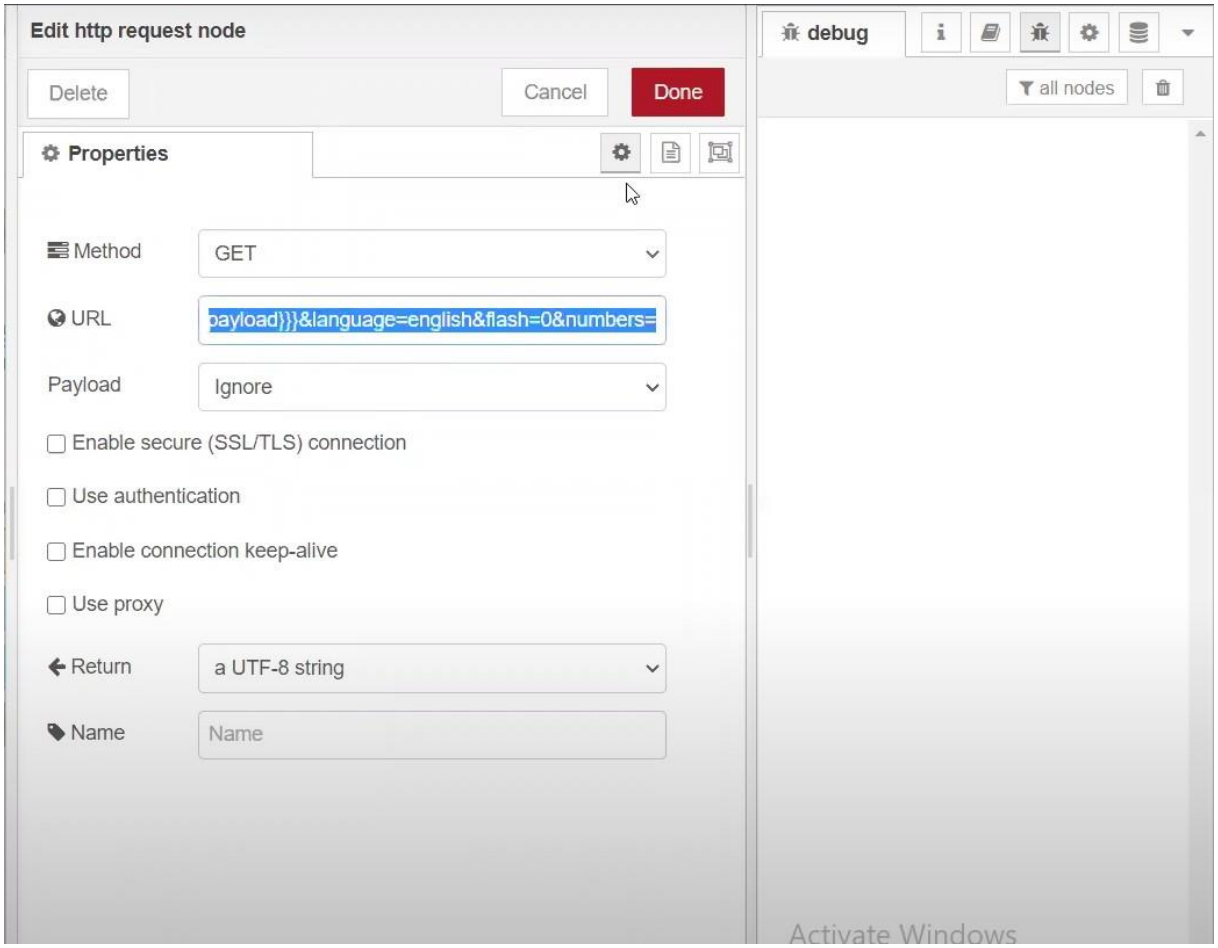
2.Added code to get child location in python

```
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()
```

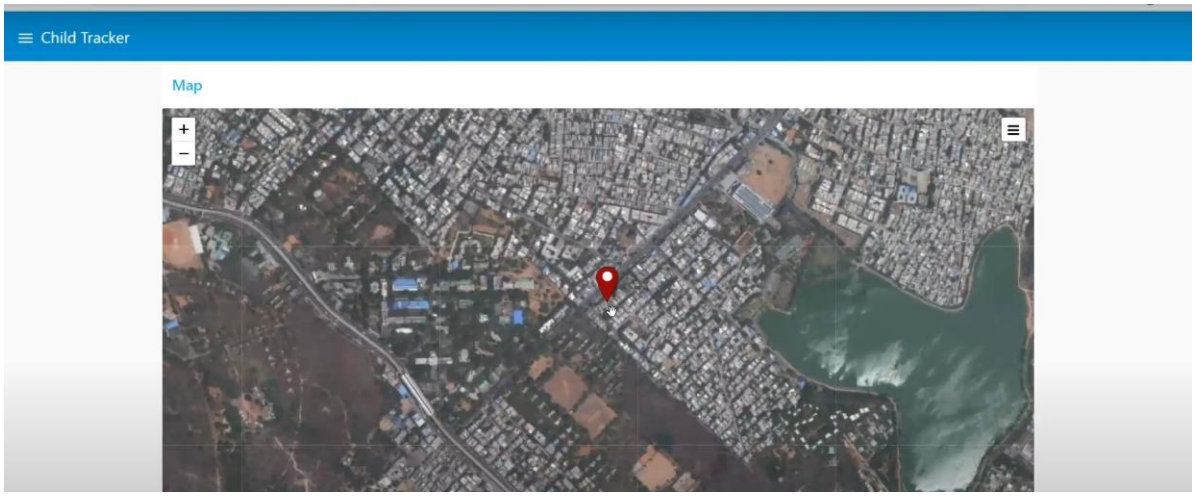
3.Created the Geofence using the geofence node edit and click done



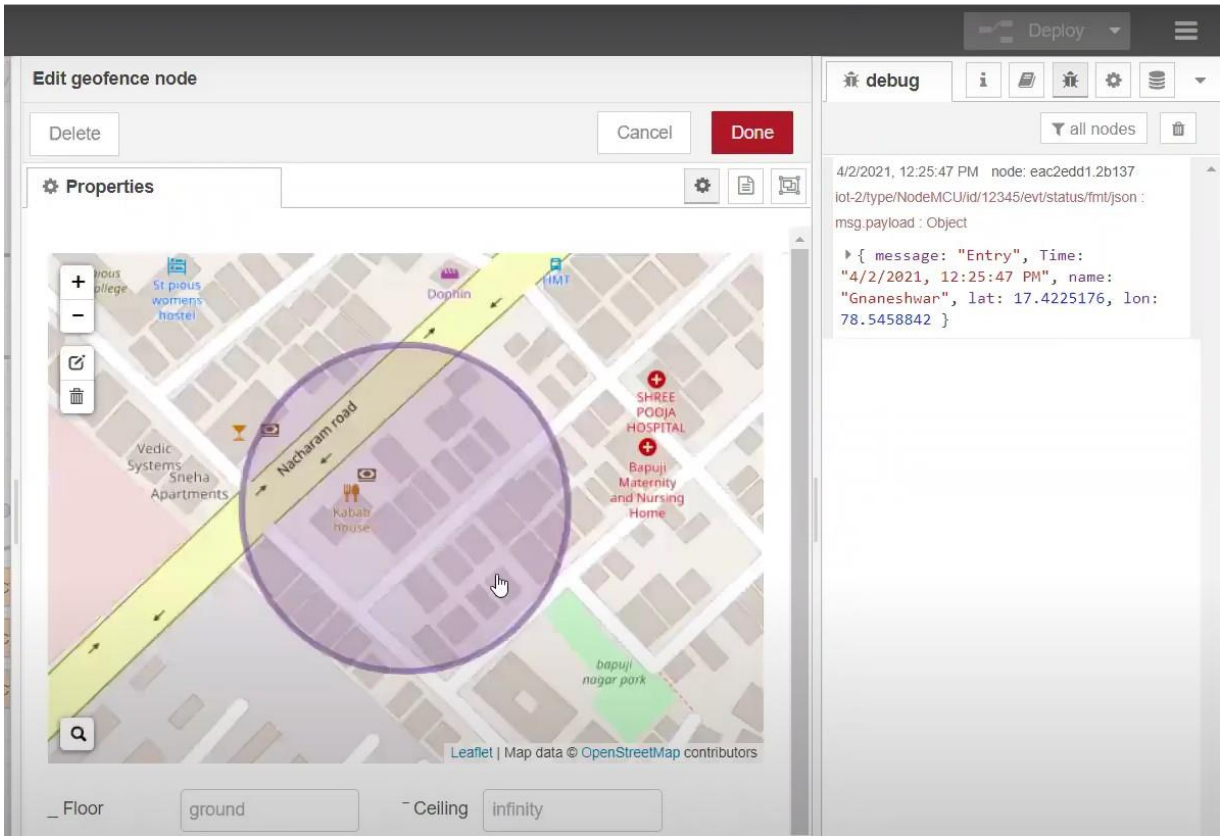
4.Editing the HTTP Request URL



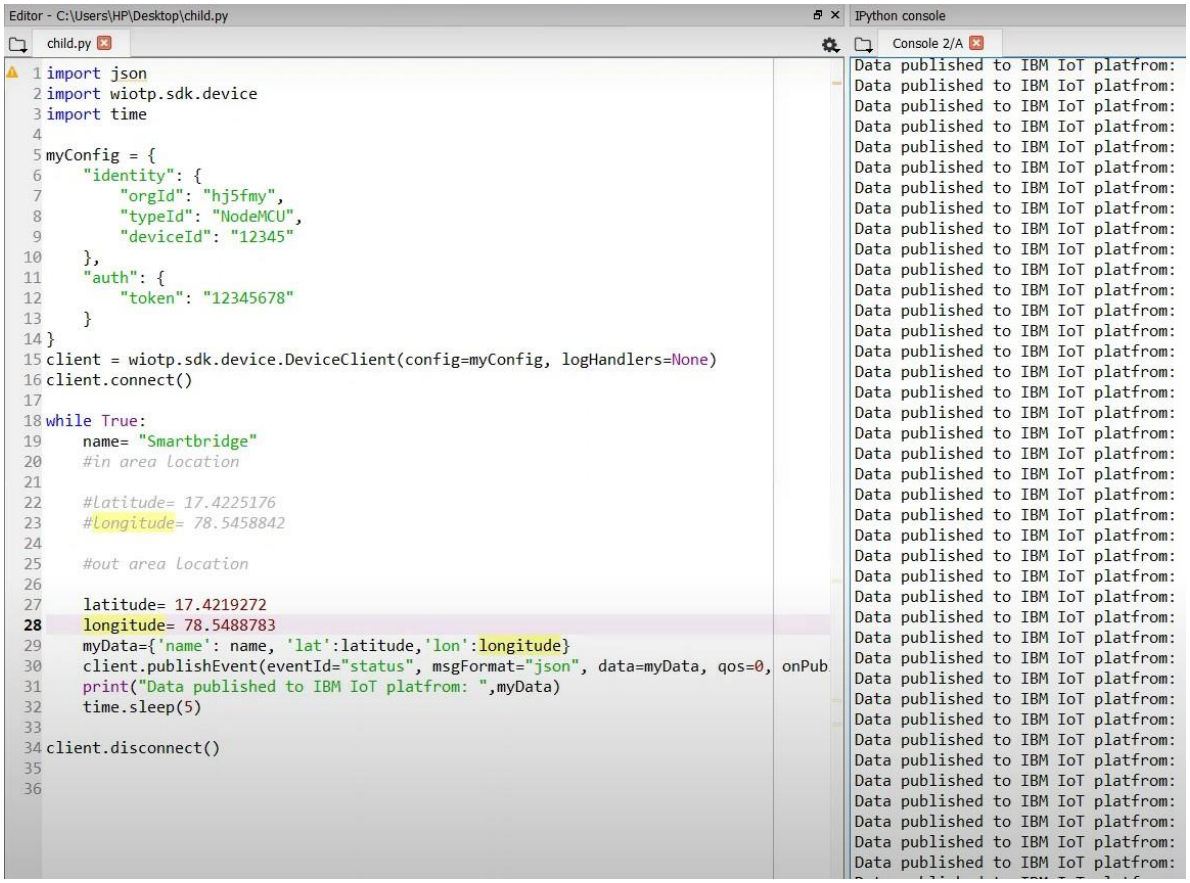
- Located the child



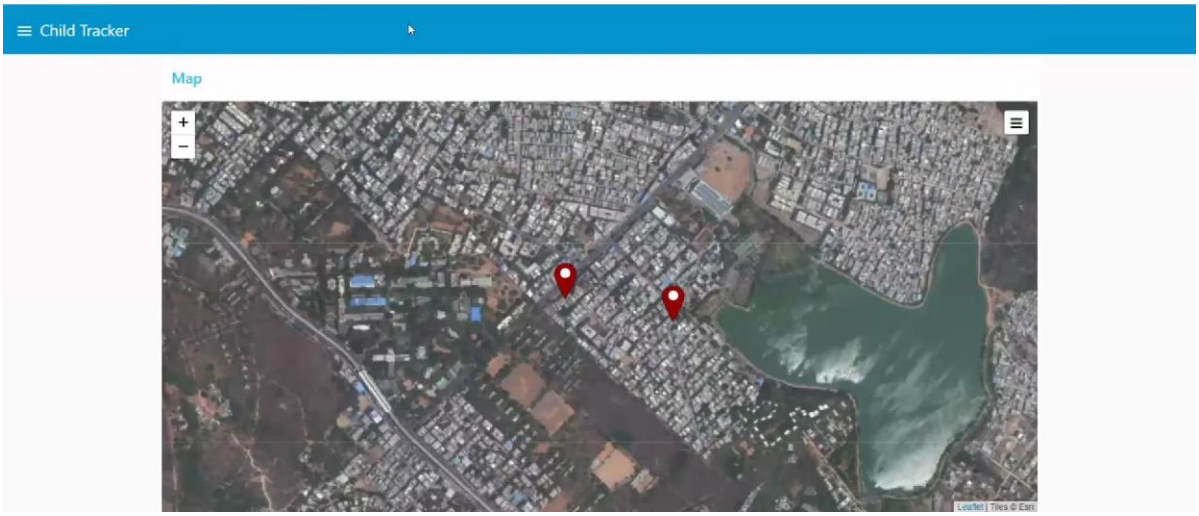
5.Successfully Created the geofence node and the location of child will be notified.



6.Python script sending requests to IBM Cloud



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



Result:

Successfully develope a web application using Node-RED was created.