

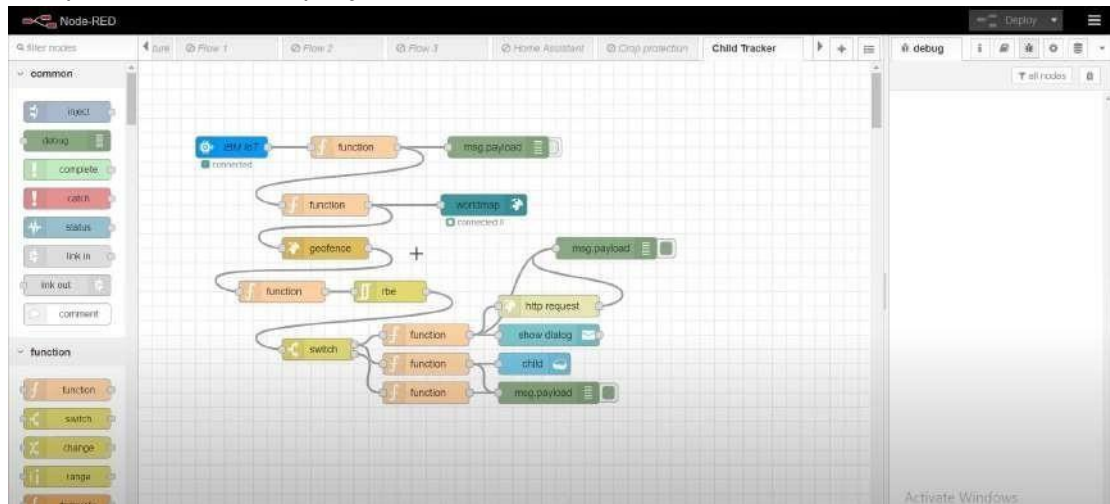
Develop The Web Application Using Node-RED Service

Date	07 November 2022
Team ID	PNT2022TMID24179
Project Name	IOT based device for child safety monitoring and notification

1. To Develop the web application using Node-RED

Steps :

1. Open a Node-RED project



2. Add 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

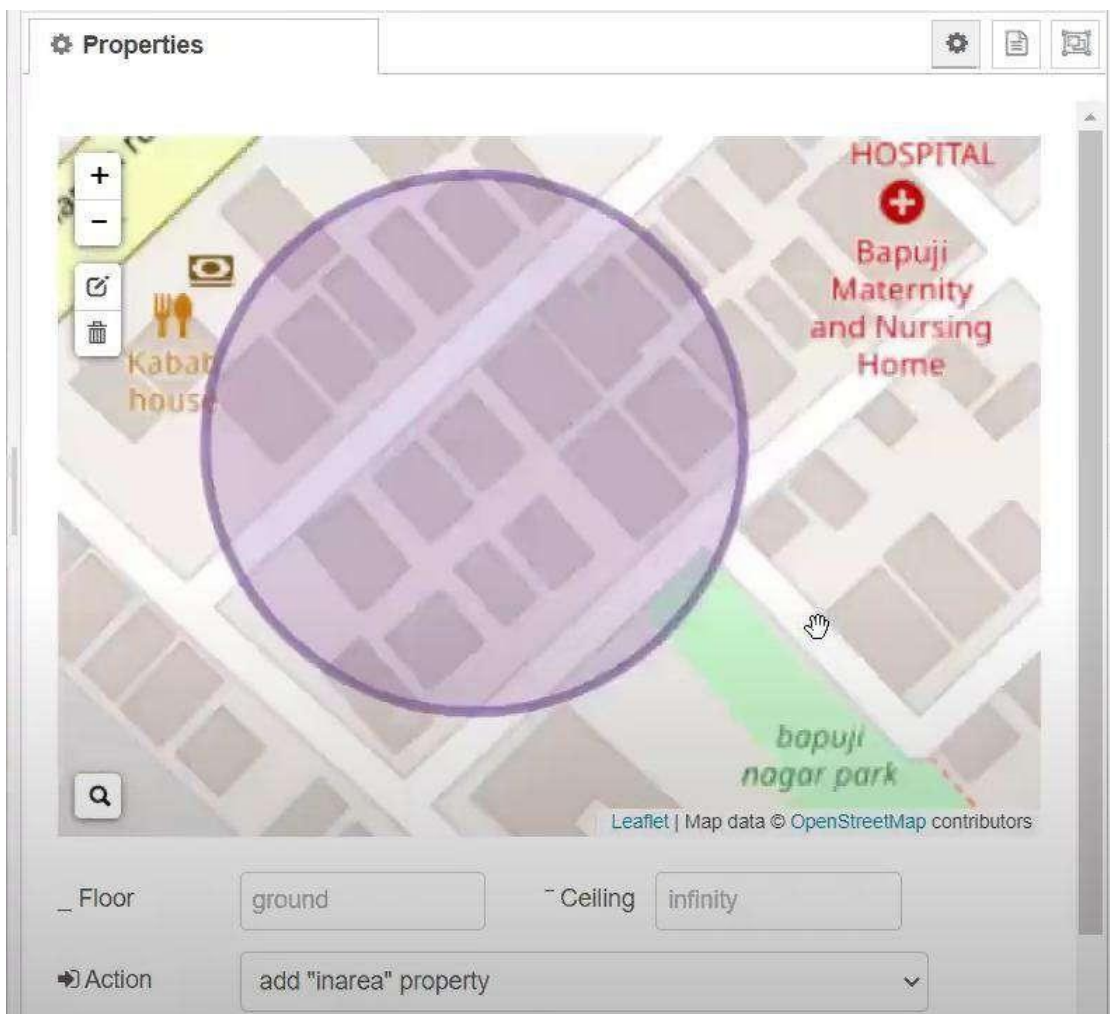
    latitude= 17.4225176
    longitude= 78.5458842

    #out area location

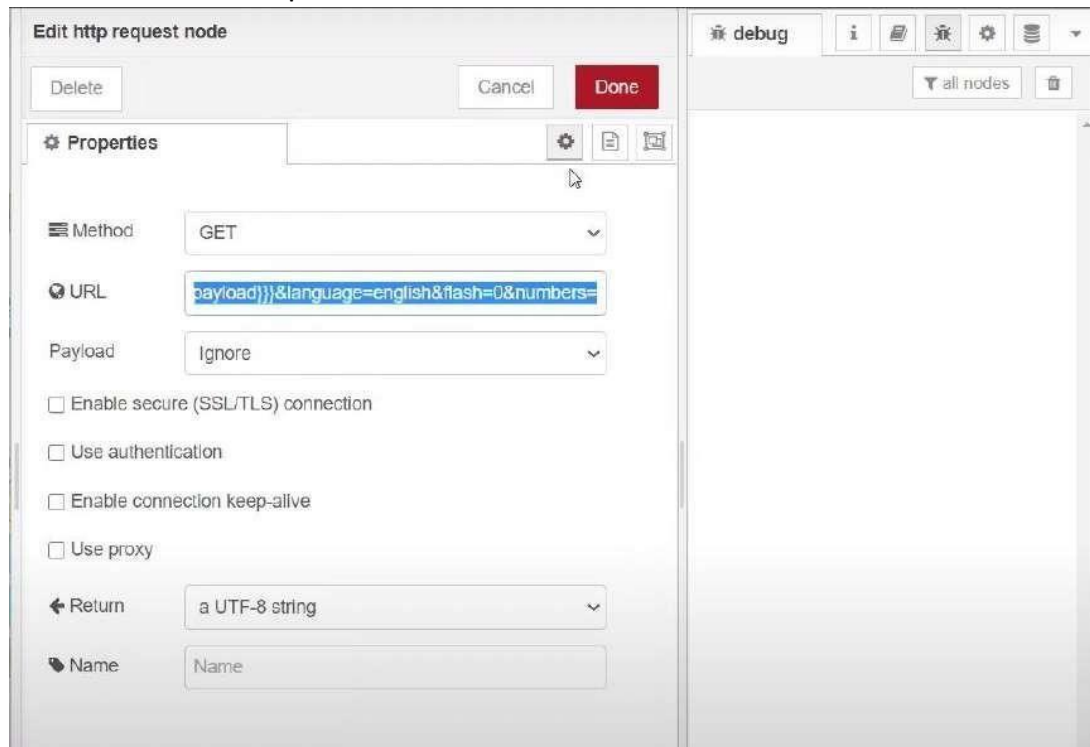
    #latitude= 17.4219272
    #longitude= 78.5488783
    myData={'name': name, 'lat':latitude,'lon':longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ",myData)
    time.sleep(5)

client.disconnect()
```

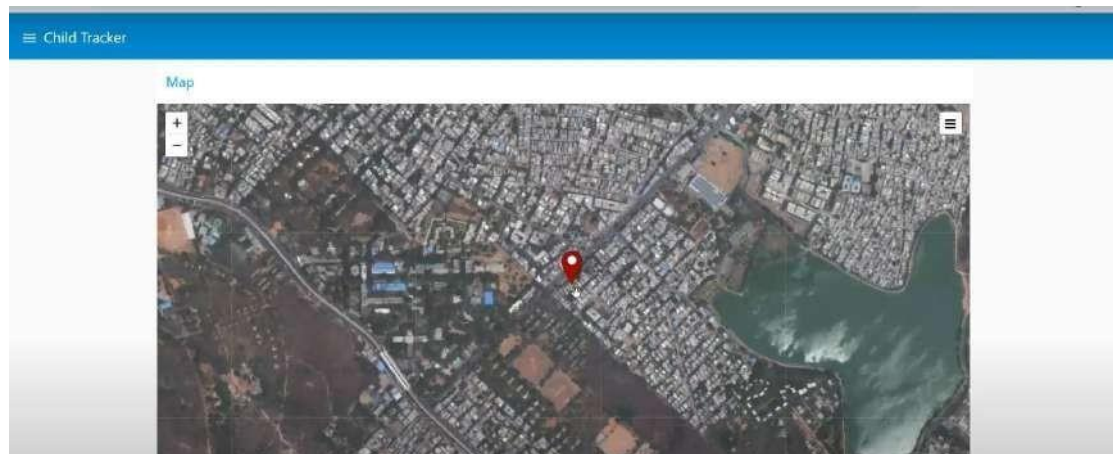
3. Create the GeoFence



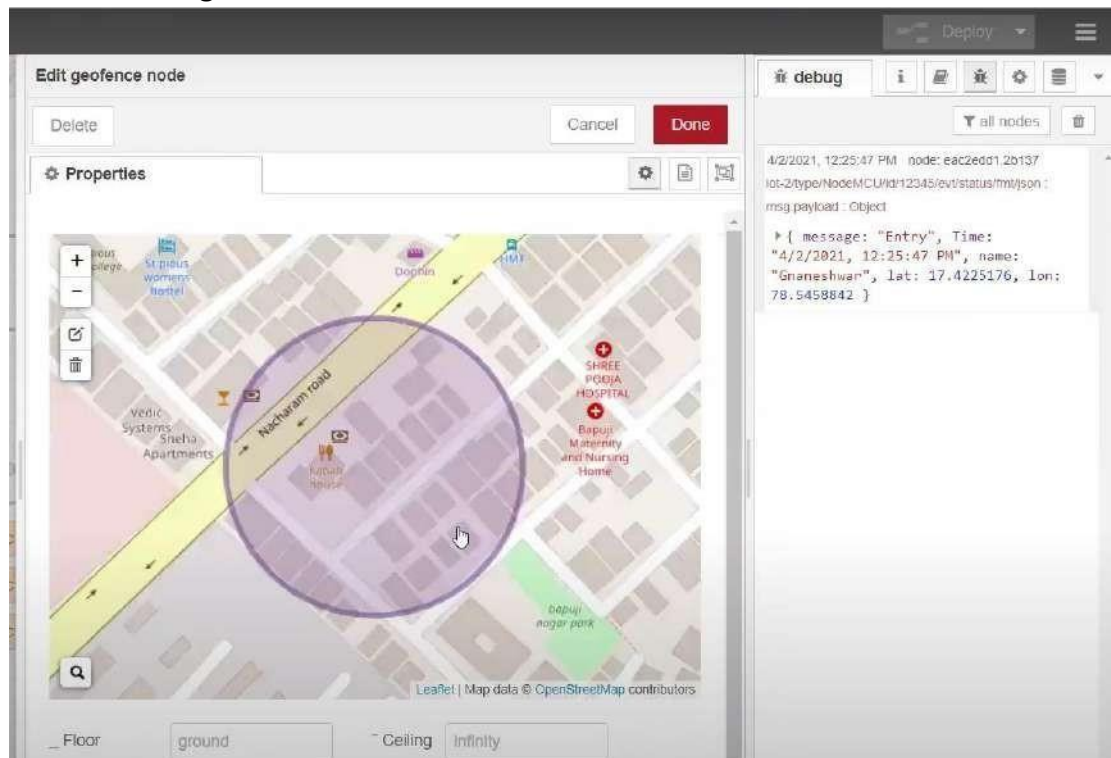
4. Edit the HTTP Request URL



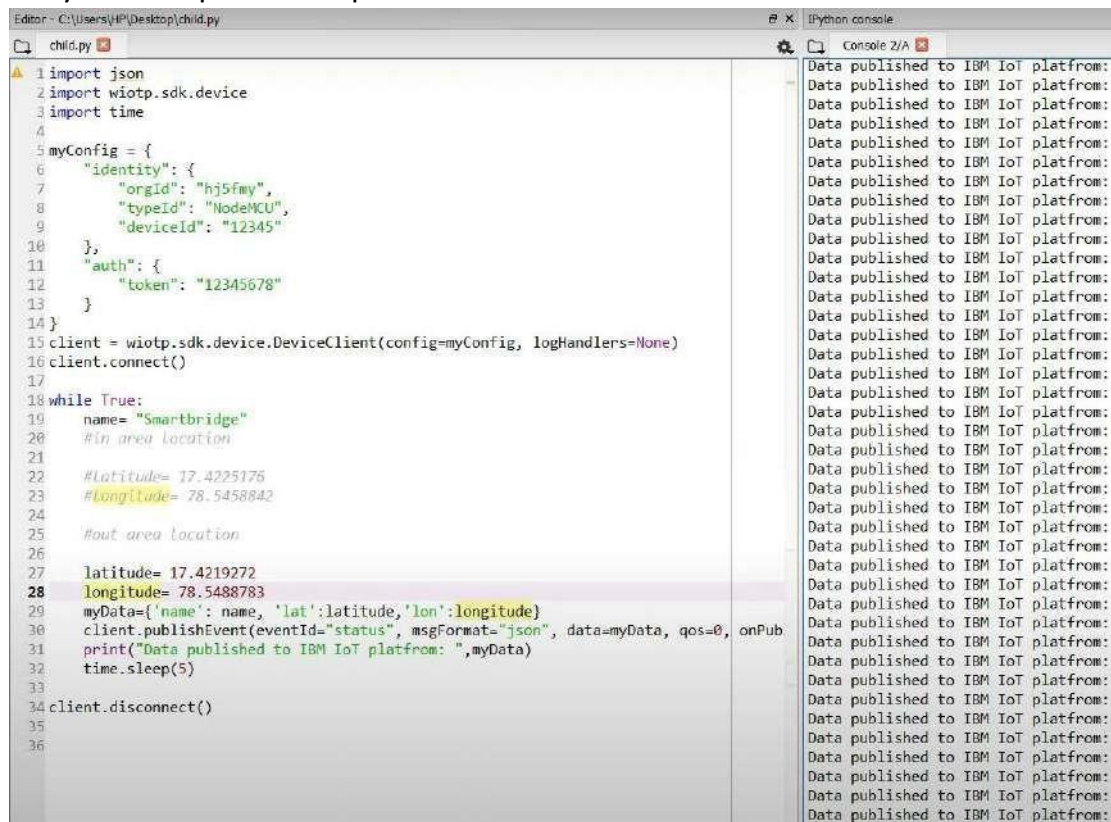
5. Locate the child



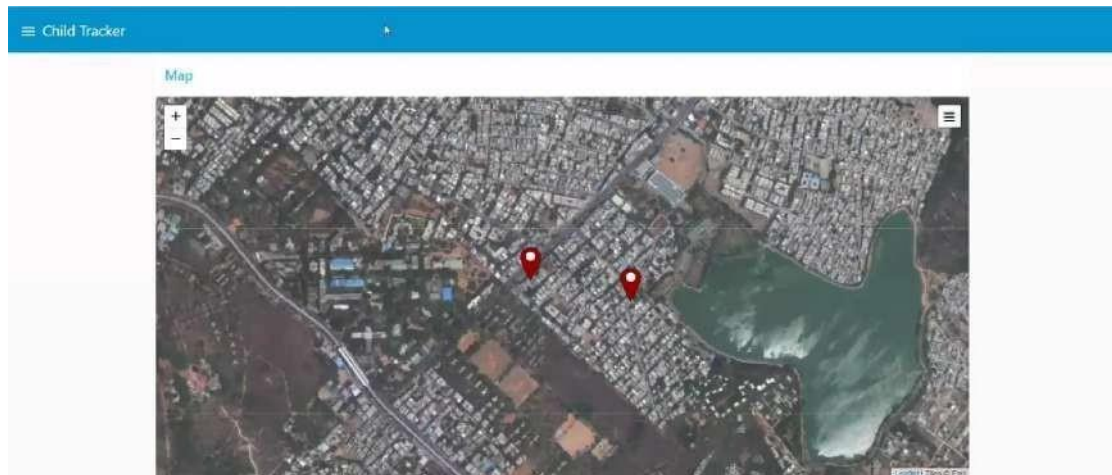
6. Create the geofence node



7. Python script send requests to IBM Cloud



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