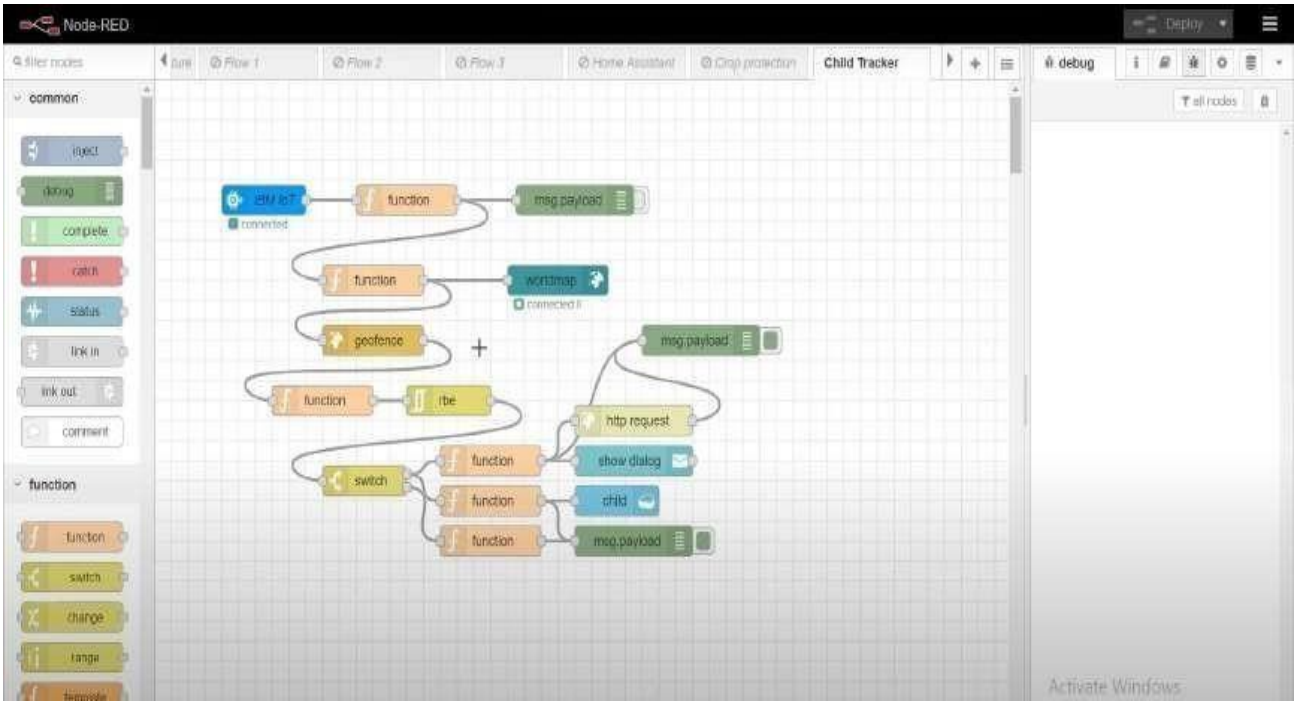
DEVELOP A WEB APPLICATION USING NODE-RED SERVICE

Date	06 November 2022
Team ID	PNT2022TMID15234
Project Name	Industry-Specific Intelligent Fire Management System
Maximum Marks	8 Marks

1. To Develop the web application using Node-RED

Steps :

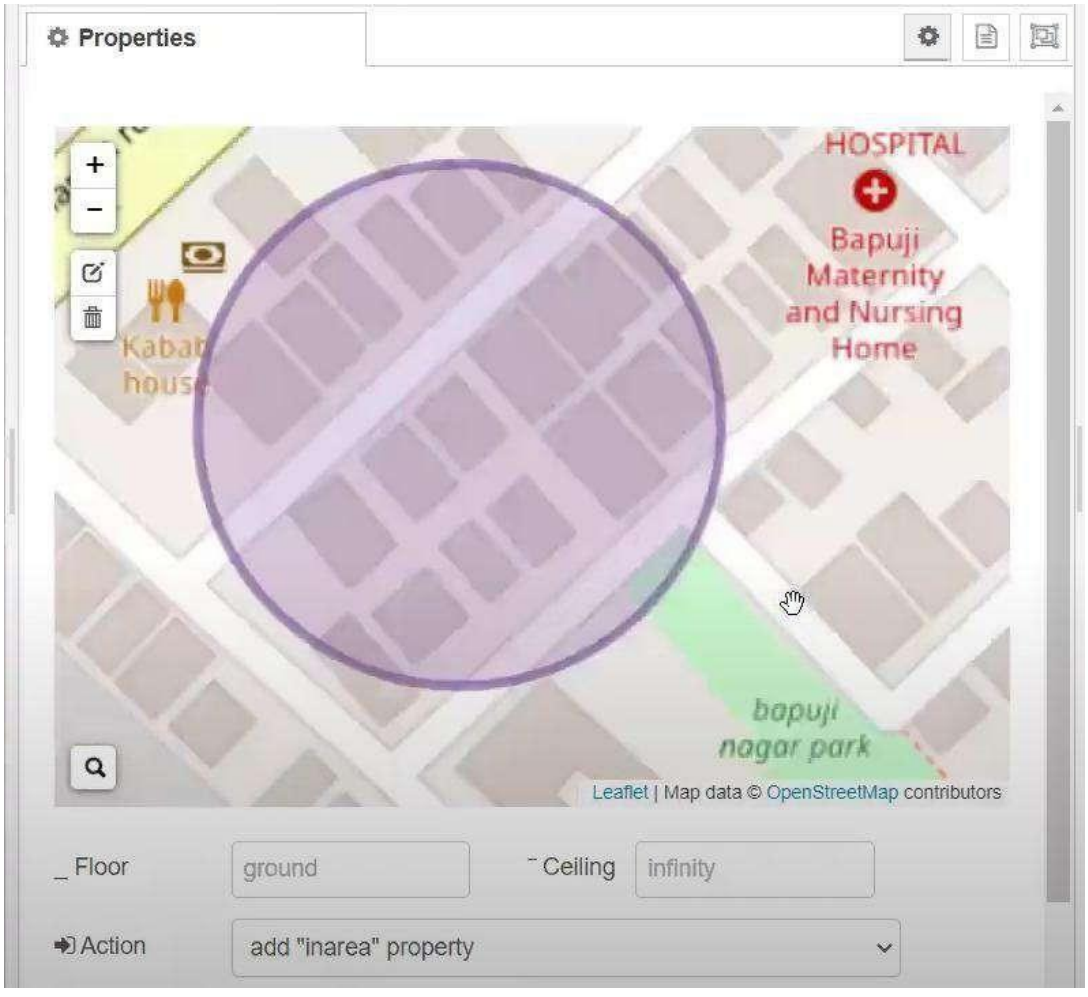
- Open a Node-RED project



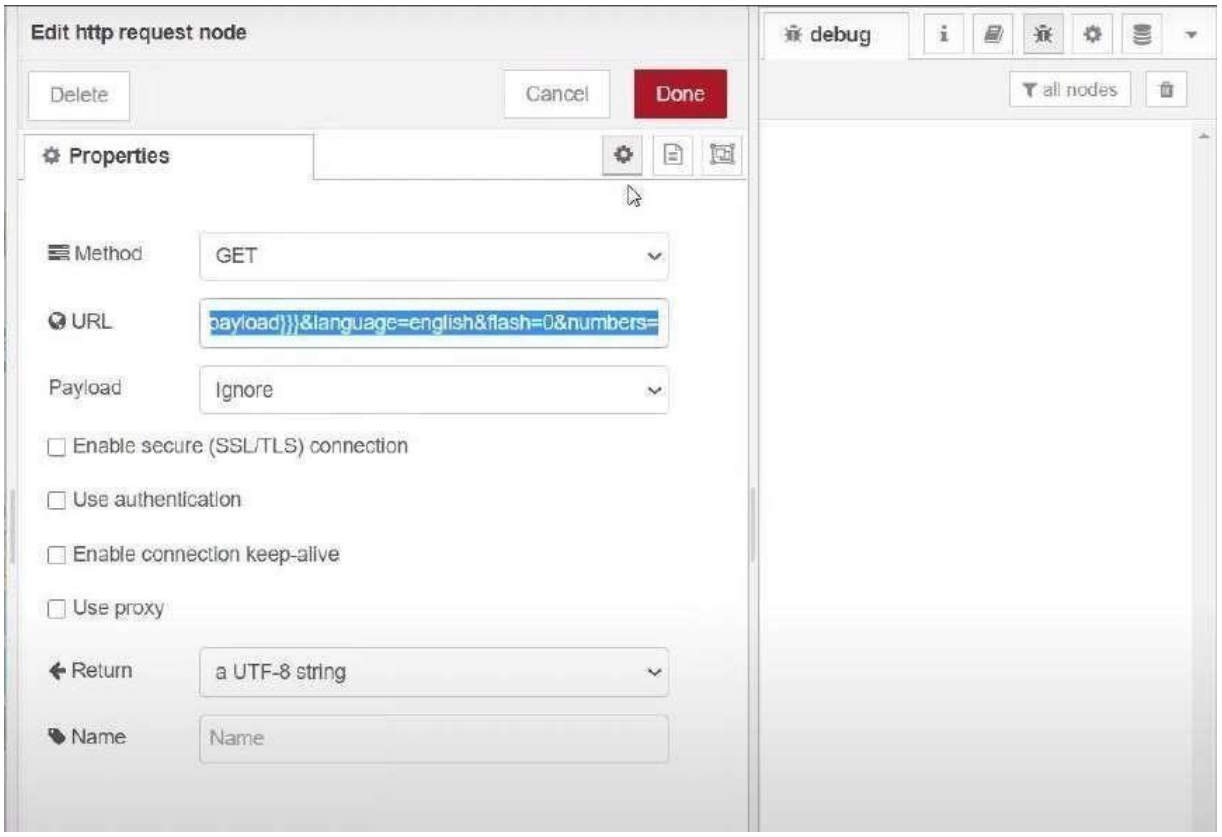
- Add code to get child location in python

```
Node red app.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python37/Node red app.py (3.7.0)
File  Edit  Format  Run  Options  Window  Help
import json
import wiotp.sdk.device
import time

myConfig = {
    "identity":{
        "orgId": "88653s",
        "typeid": "iot_device",
        "deviceId": "wokwi_us"
    }
    "auth": {
        "token":")l(u!YYO)NmKr9sk(k"
    }
}
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, 'len': 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()
```

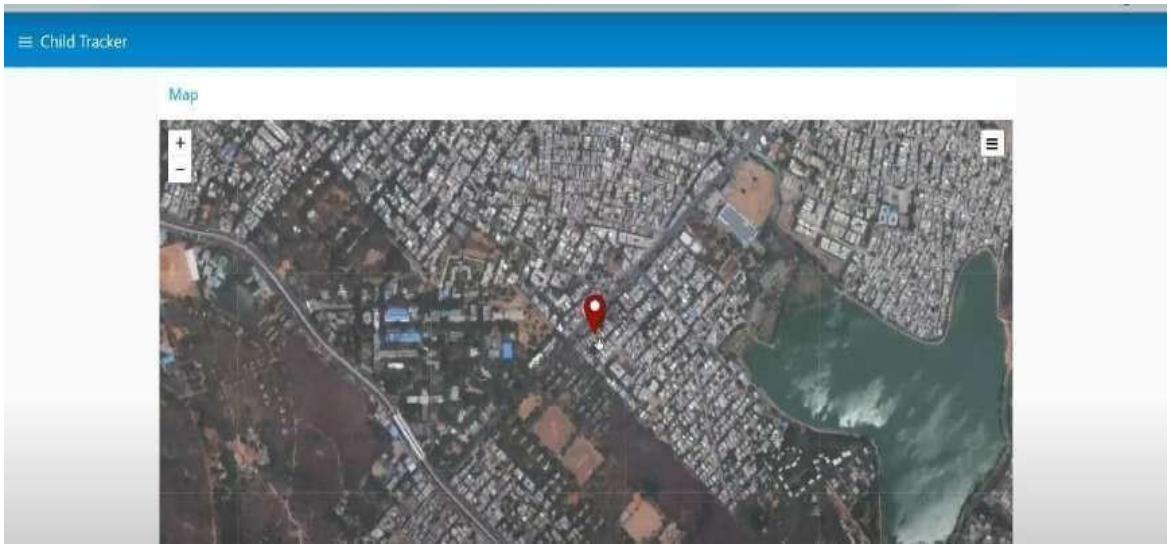
- Create the Geofence



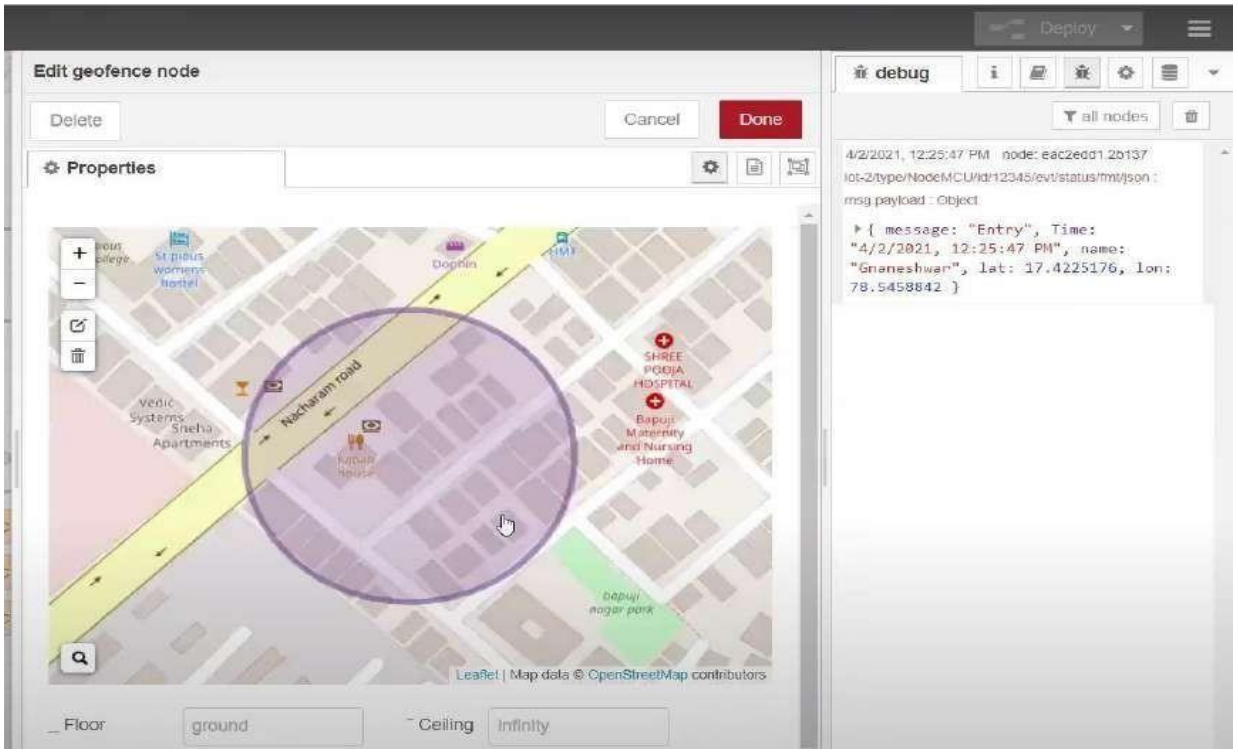
- Edit the HTTP Request URL



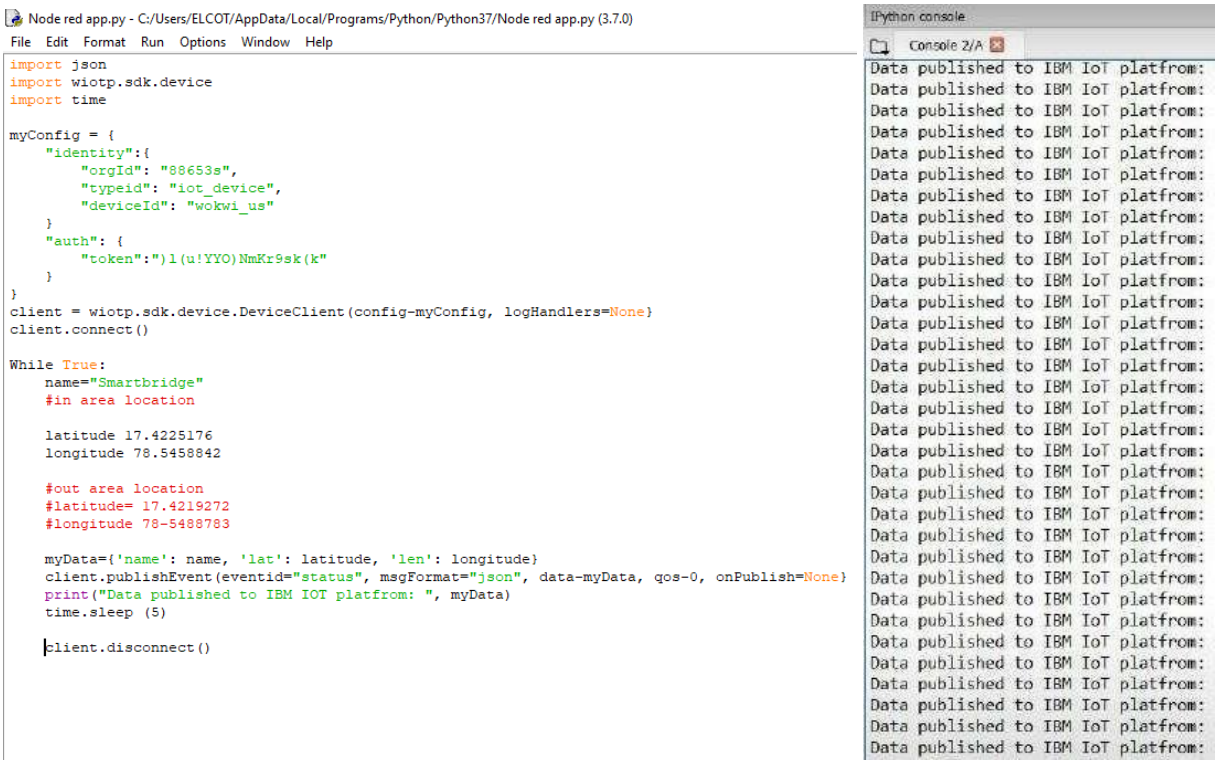
- Locate the child



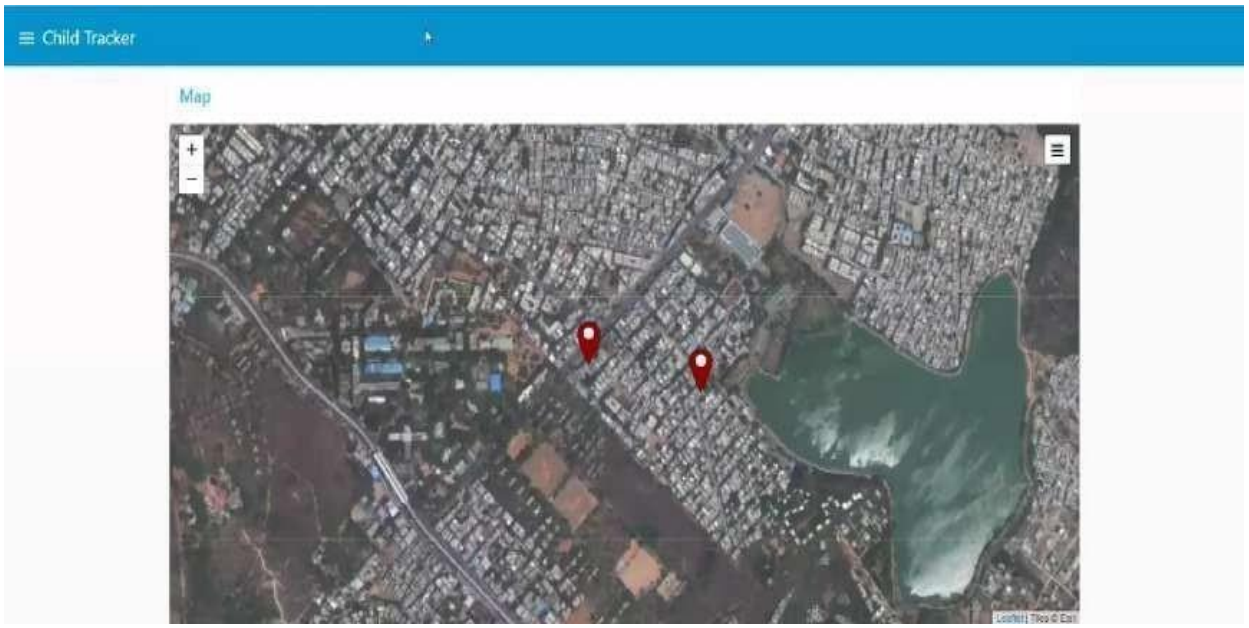
- Create the geofence node



- Python script send requests to IBM Cloud



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



Conclusion:

Development of the web application using Node-RED Successfully.