

# Develop The Web Application Using Node-RED

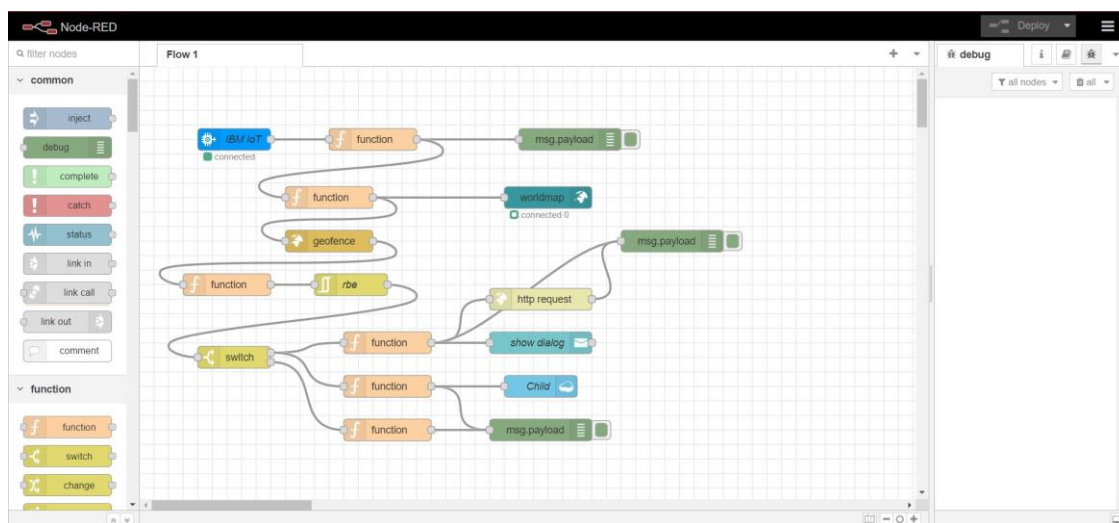
IoT Based Safety Gadget for Child Safety Monitoring and Notification

Team ID : PNT2022TMID20150

**Aim:** Develop the web application using Node-RED

## Steps Followed:

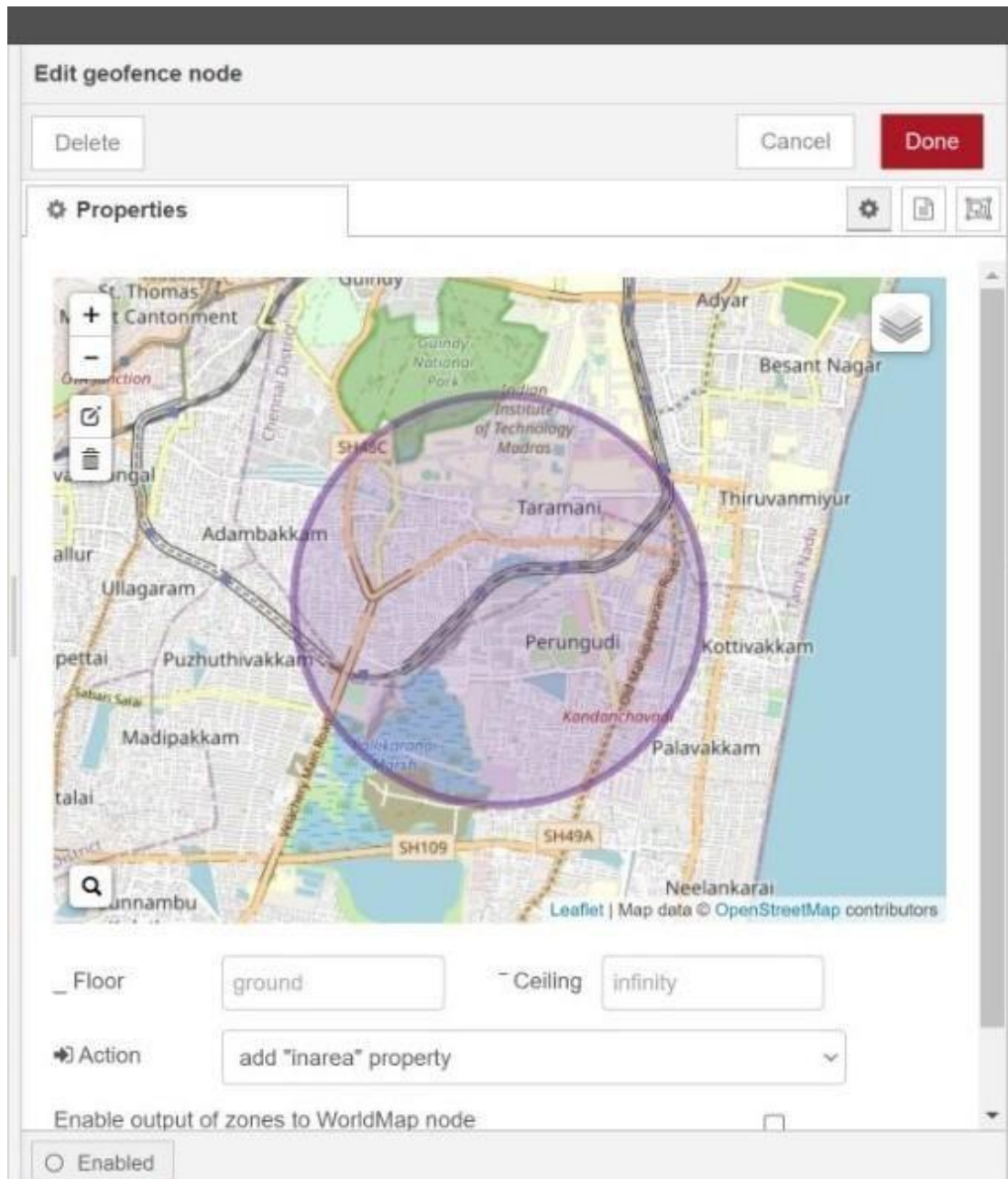
- Opened a Node-RED project



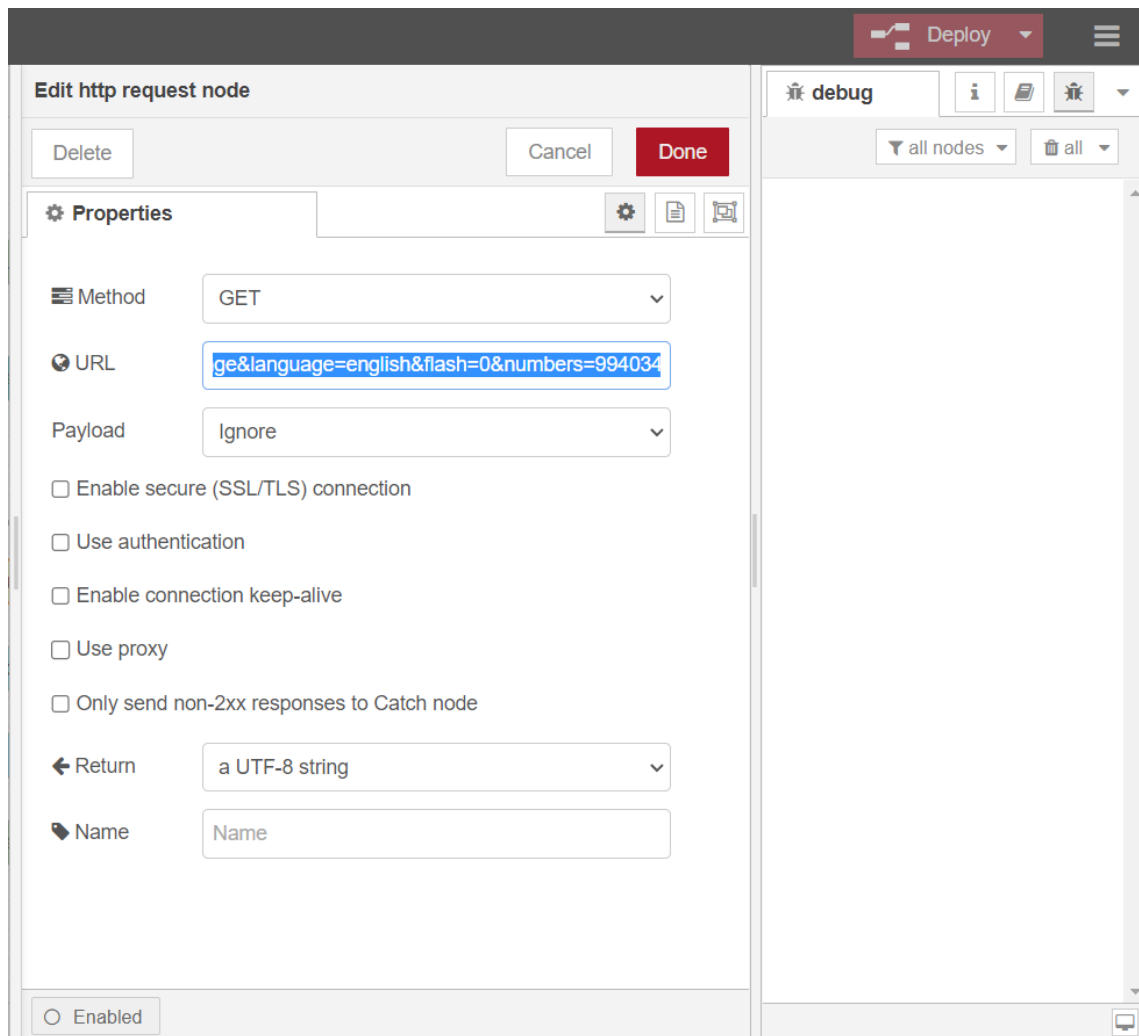
- Added code to get child location in python

```
child.py - C:\Users\Anu\AppData\Local\Programs\Python\Python37\child.py (3.7.0)
File Edit Format Run Options Window Help
import json
import wiotp.sdk.device
import time
myConfig = {
    "identity": {
        "orgid": "401qxb",
        "typeId": "TestDeviceType",
        "deviceId": "12345"
    },
    "auth": {
        "token": "pnhXv2N-s8MRVshxyi"
    }
}
client= wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
    name = "Smartbridge"
    #in area location
    latitude = 17.4225176
    longitude = 78.5456942
    #out area location
    #latitude 17.4219272
    #longitude 78.5489783
    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()
```

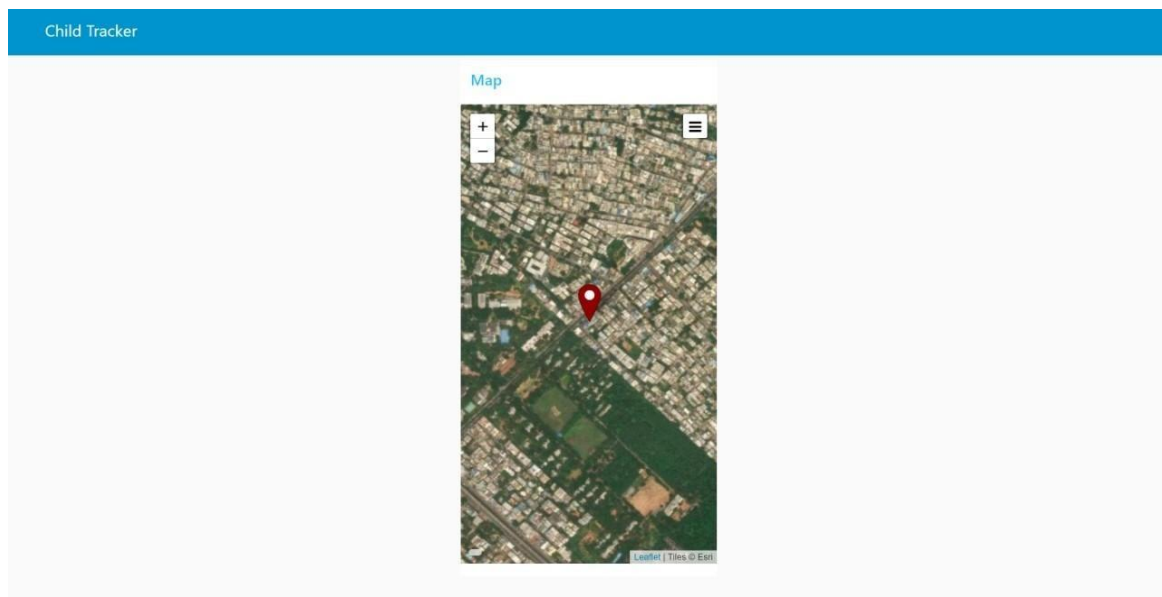
- Created the GeoFence



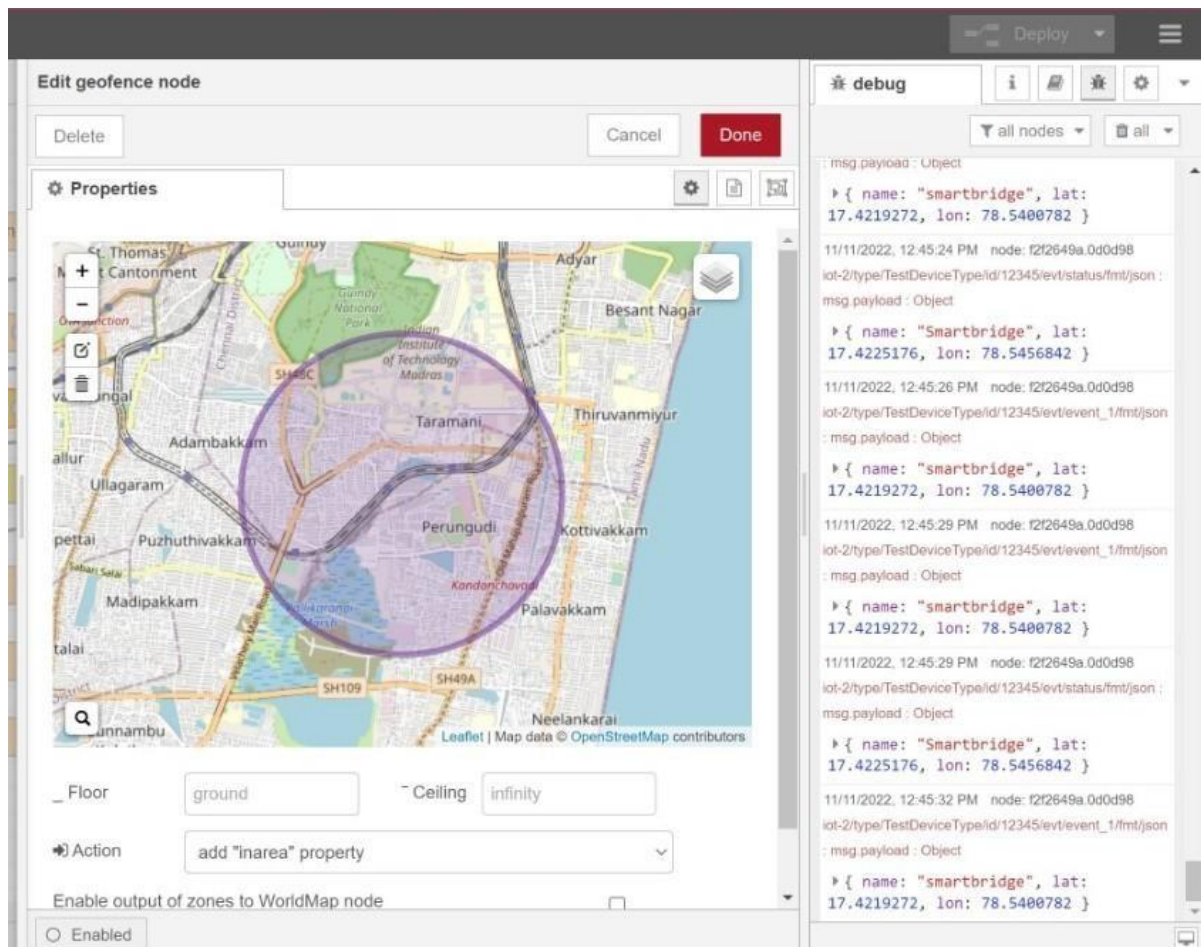
- Editing the HTTP Request URL



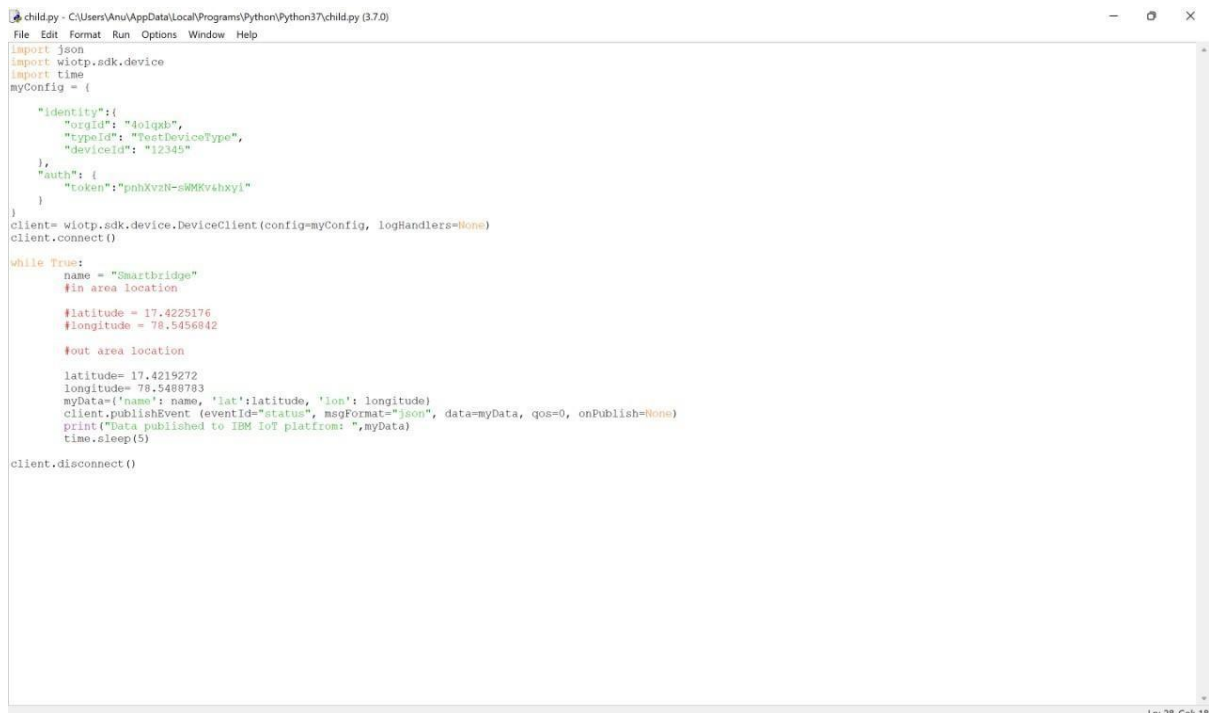
- Located the child



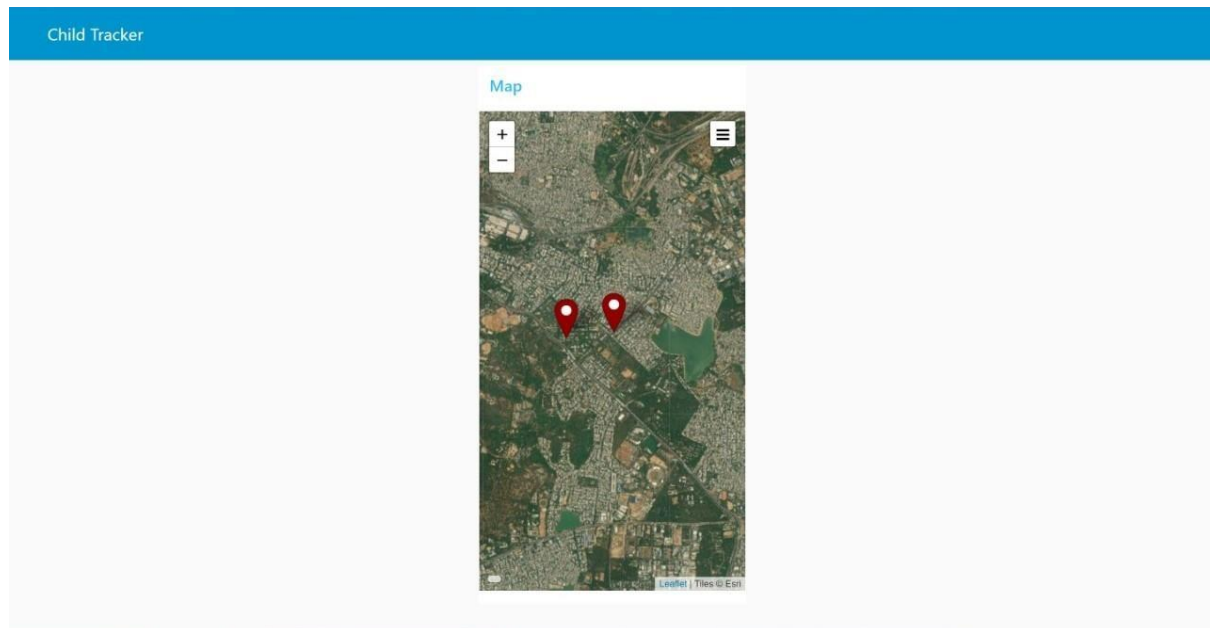
- Created the geofence node



- Python script sending requests to IBM Cloud



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



**Result:** Successfully developed the web application using Node-RED