# Develop A Web Application Using Node-RED

| Date | 07 November 2022 |
|---|---|
| Team ID | PNT2022TMID01089 |
| Project Name | Smart Solutions For Railways |
| Maximum Marks | 2 Marks |
| Submitted By | Naveen G<br>Prasanna Venkatesh S<br>Nandha kumar S<br>Kamalesh S |

Steps Followed:

- Opened a Node-RED project
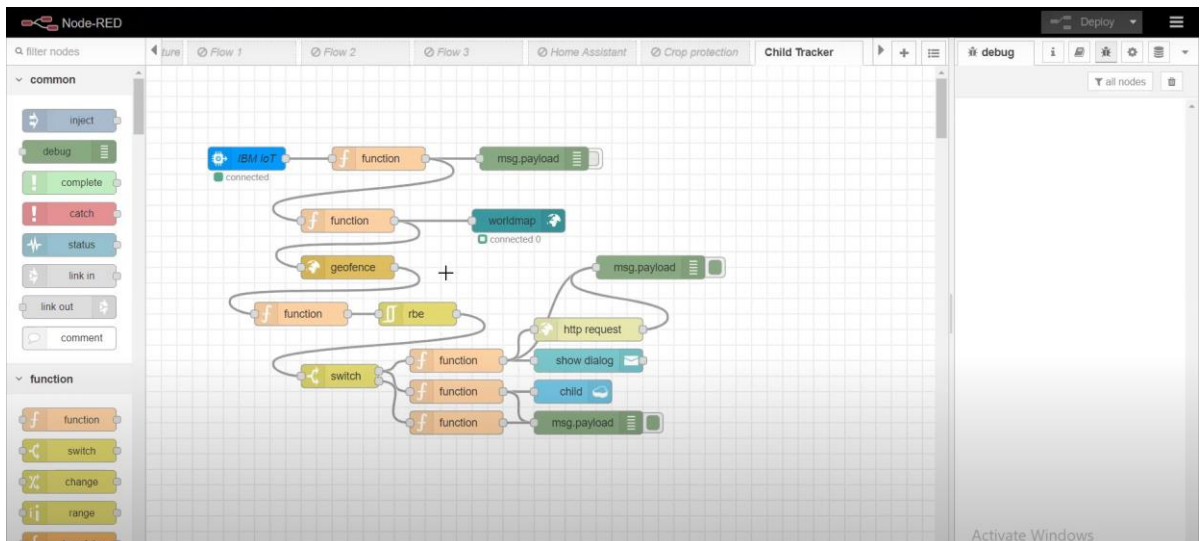


- Added code to get child location in python

```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()
```
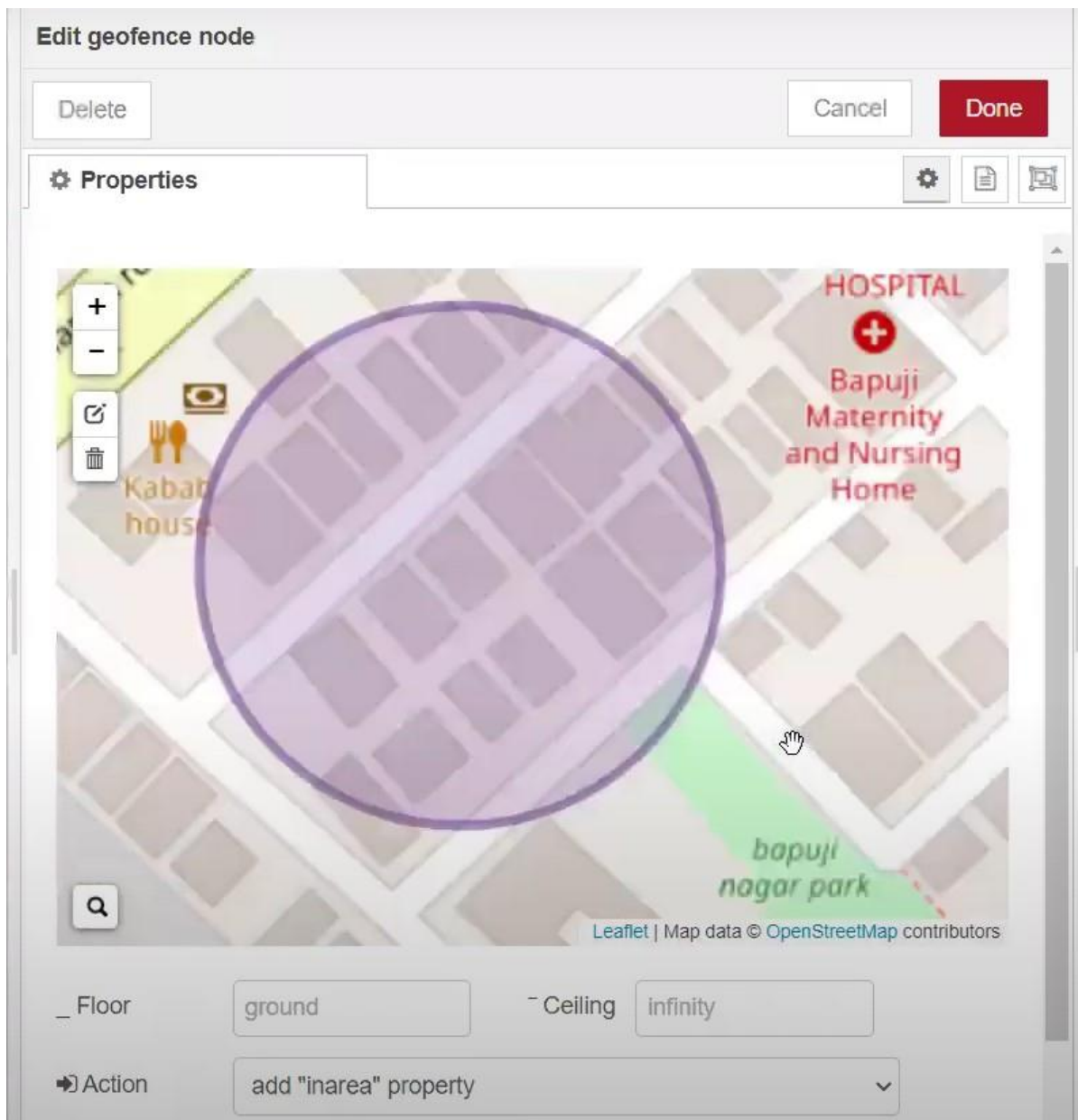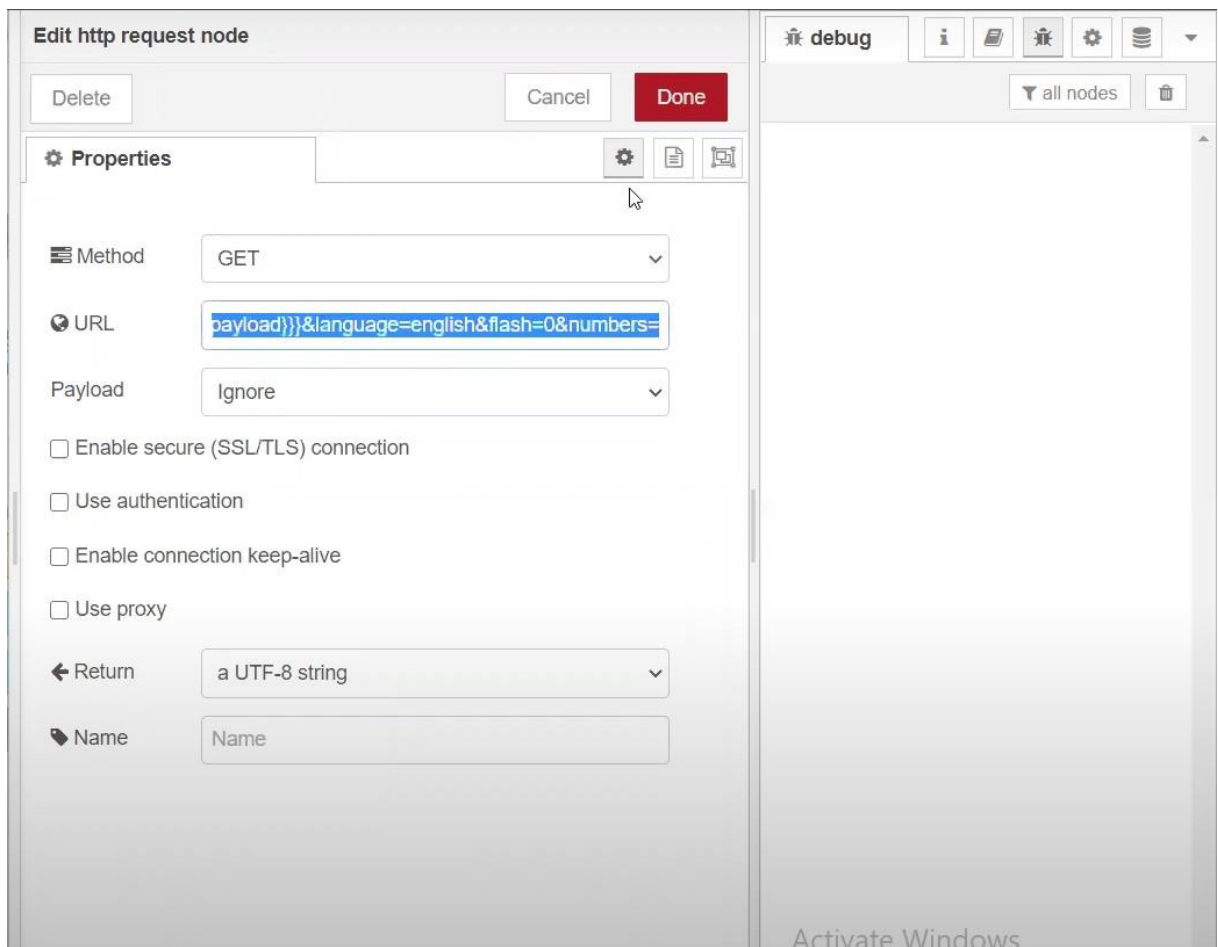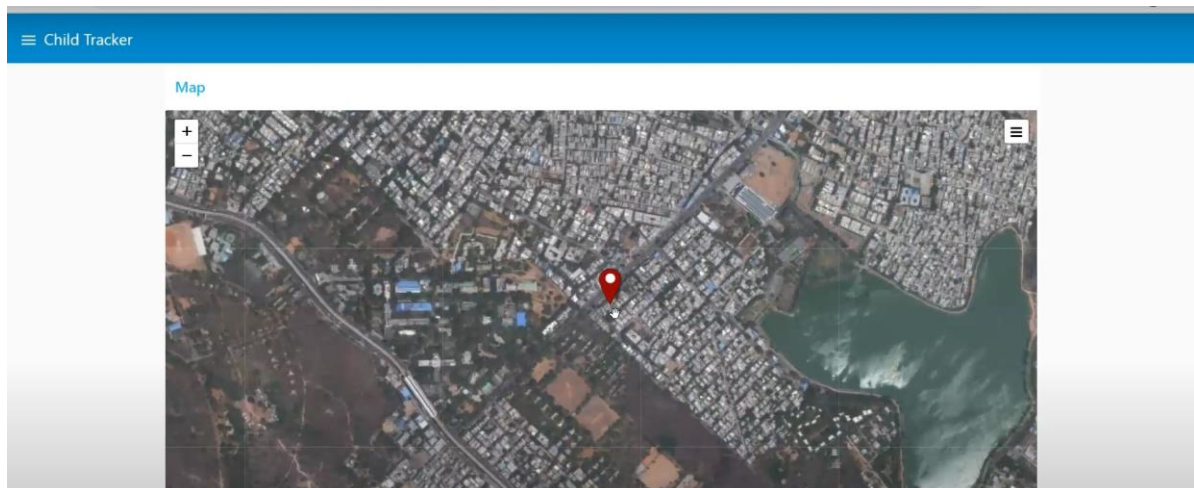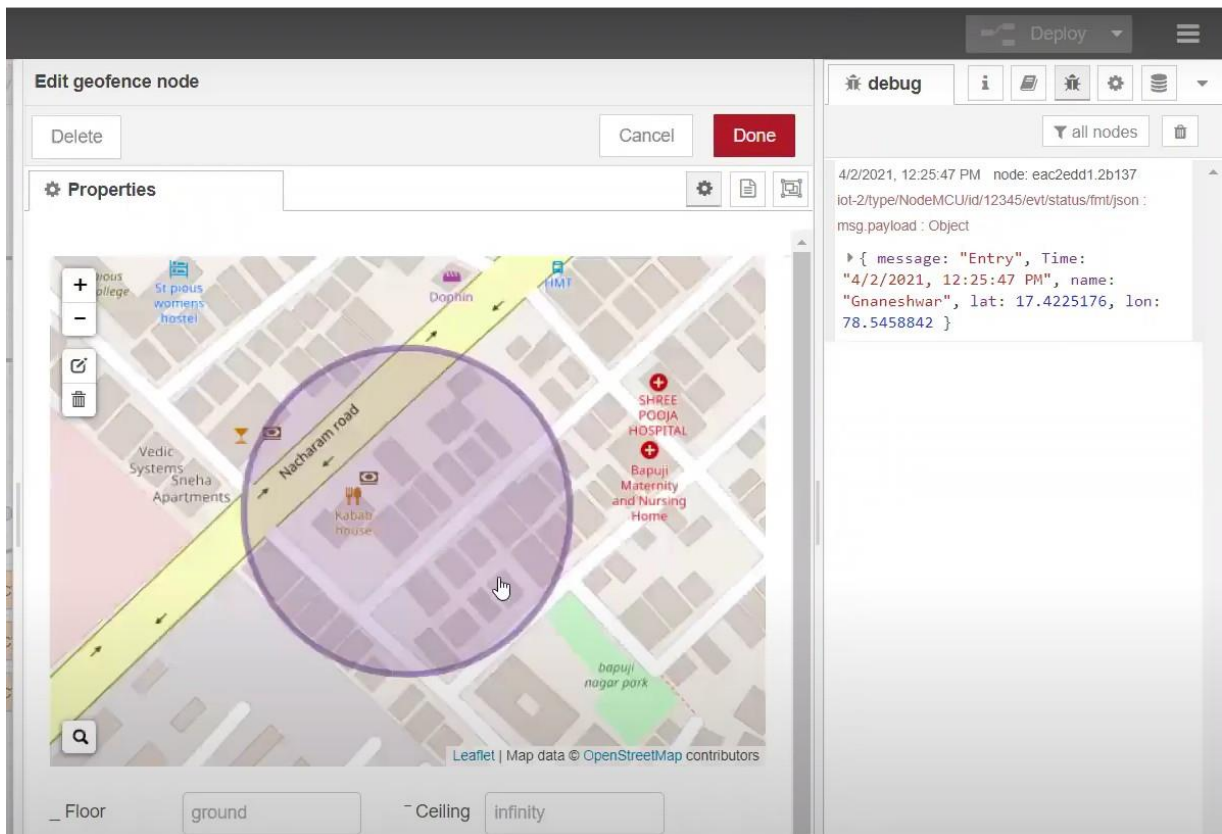
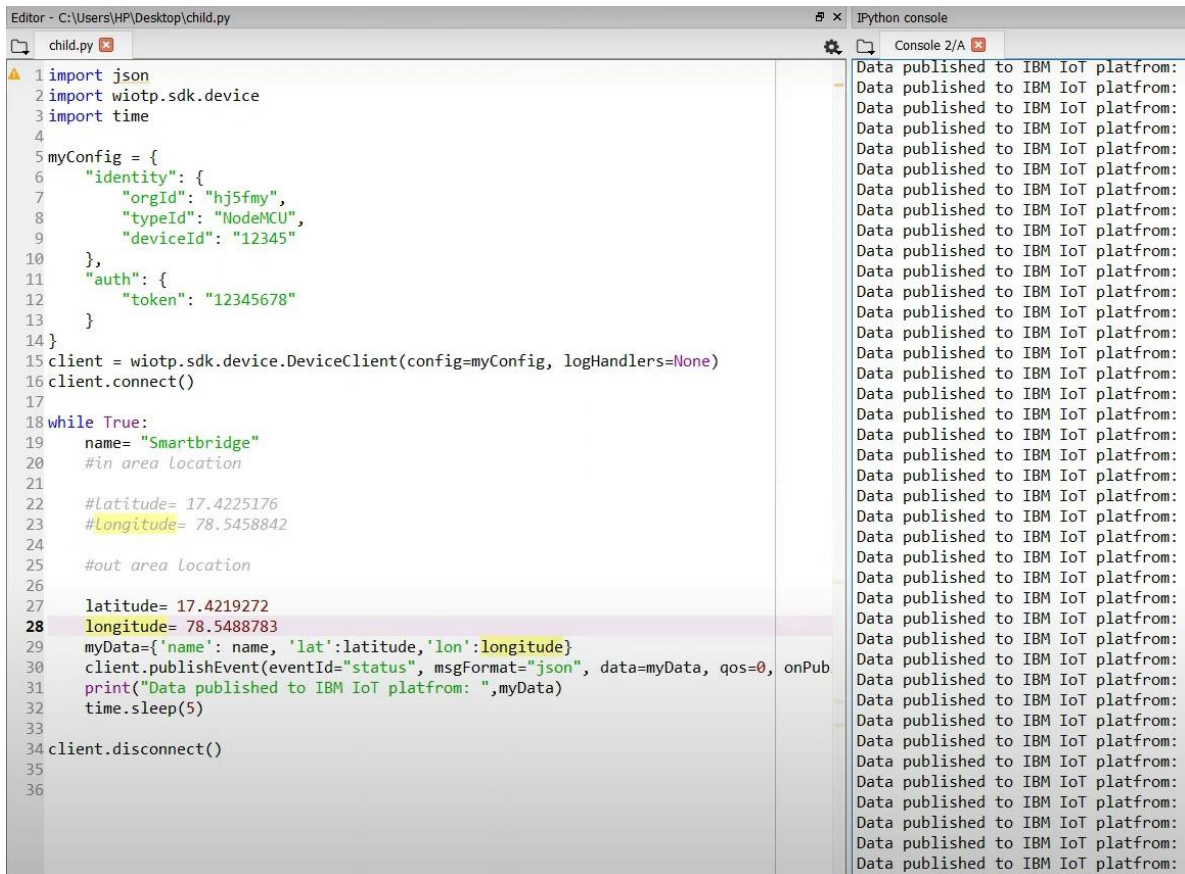- Created the GeoFence

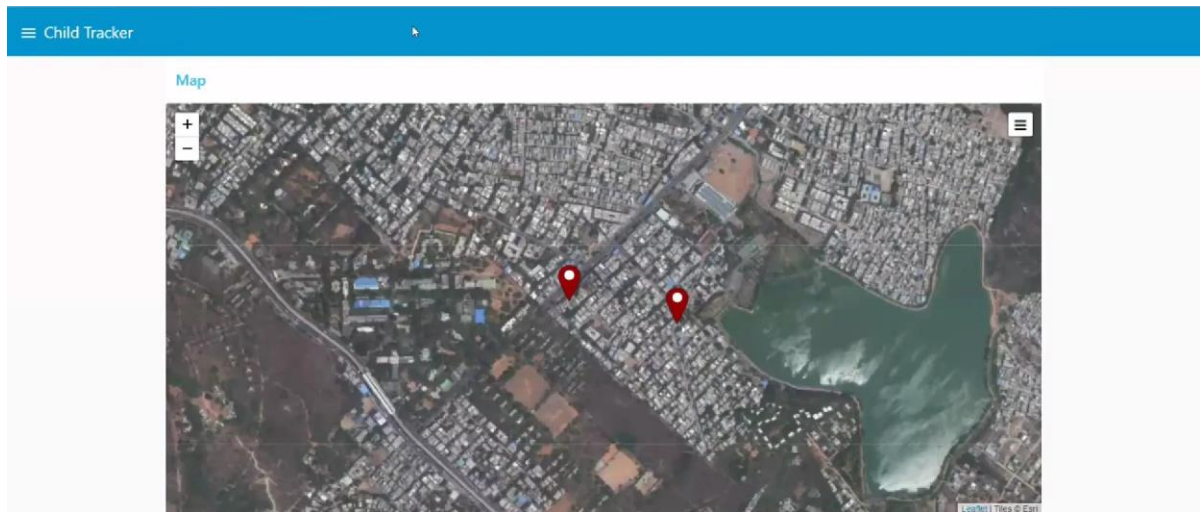- Editing the HTTP Request URL



- 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 a web application using Node-RED