Develop The Web Application Using Node-RED
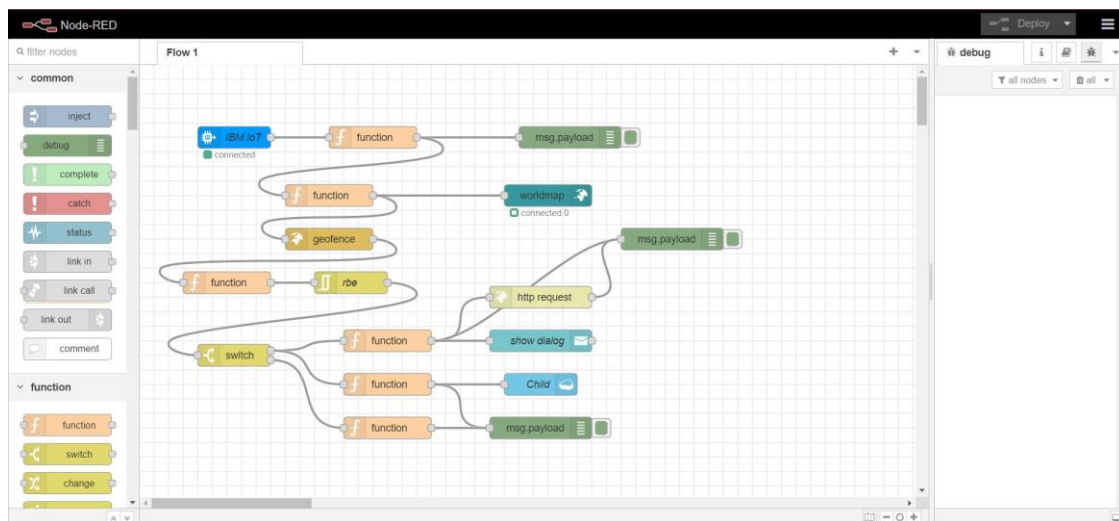
IoT Based Safety Gadget for Child Safety Monitoring and Notification

TEAM ID	PNT2022TMID00475
PROJECT NAME	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION
TEAM MEMBERS	KUMARA BALAJI.S (TEAM LEADER) MITHUN.B PRAVEEN.V NITHIN ARAVIND.V

Aim: Develop the web application using Node-RED

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": "4o1qxb",
        "typeId": "TestDeviceType",
        "deviceId": "12345"
    },
    "auth": {
        "token":"pnhXvzN-sWMKv&hxyi"
    }
}
client= wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
        name = "Smartbridge"
        #in area location

        latitude = 17.4225176
        longitude = 78.5456842

        #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()
```
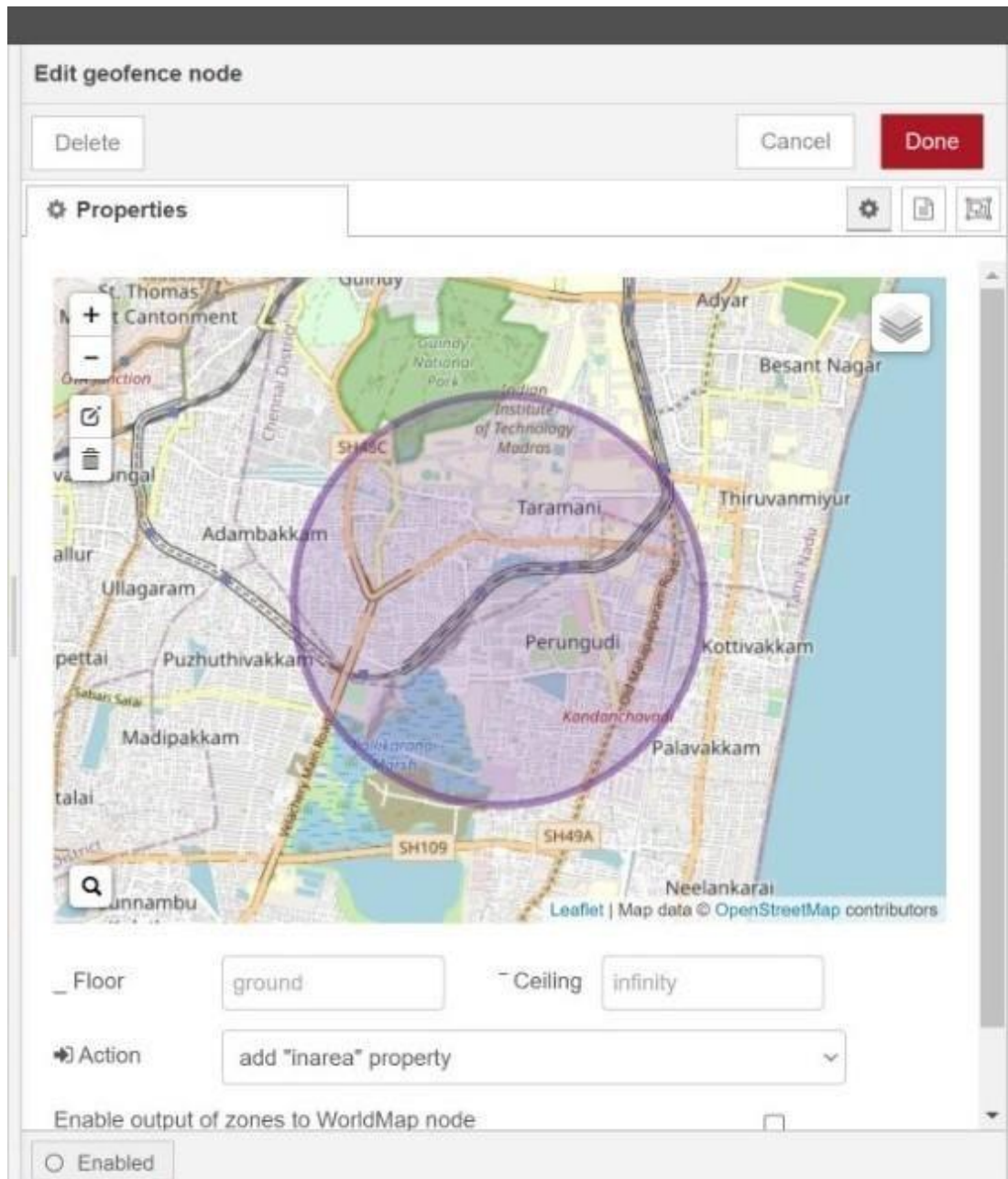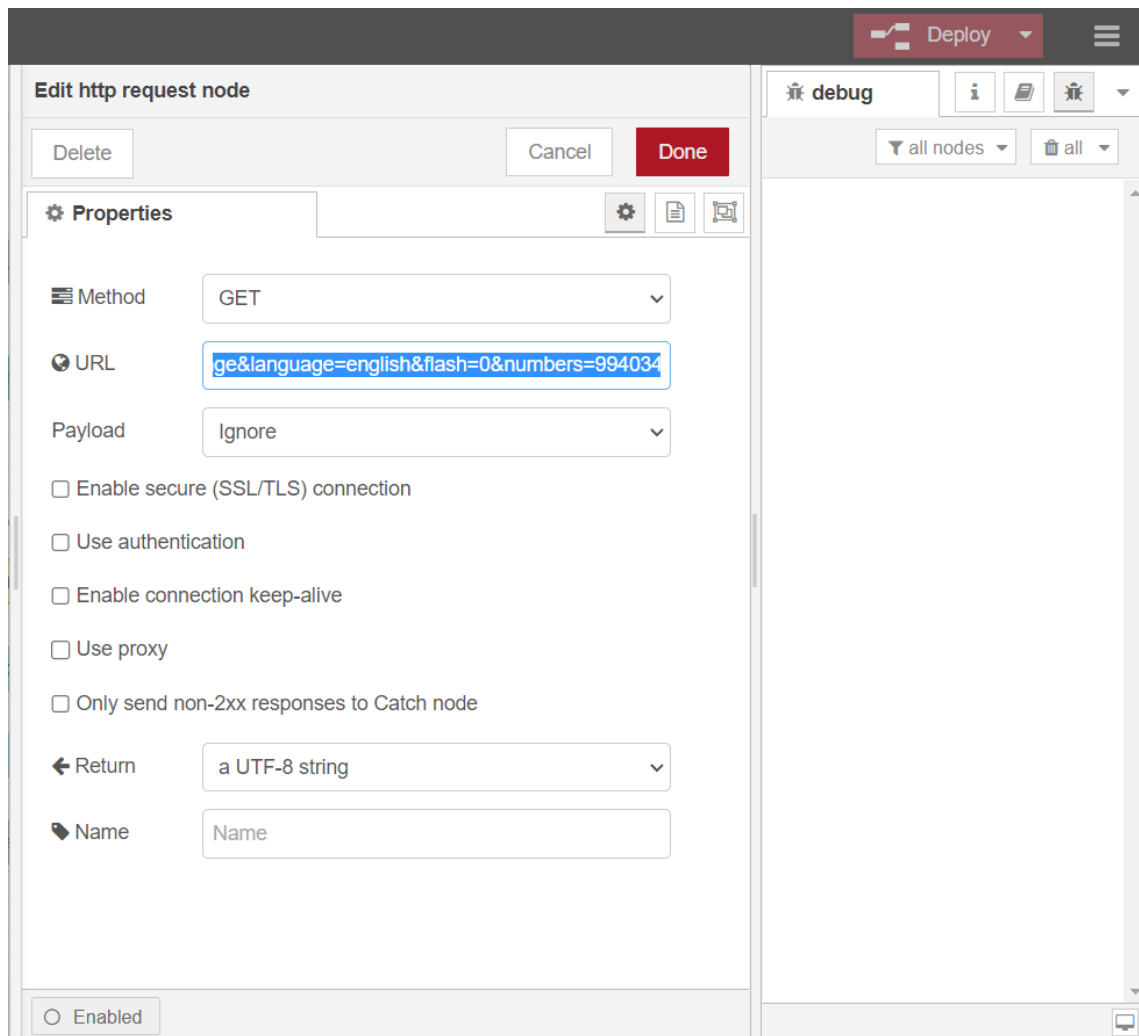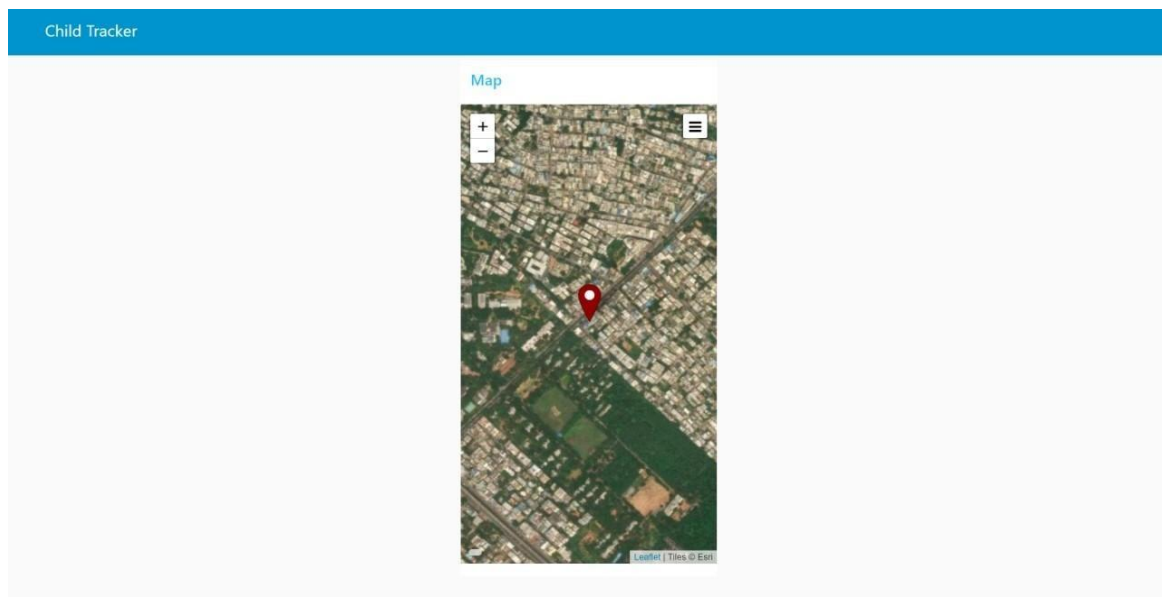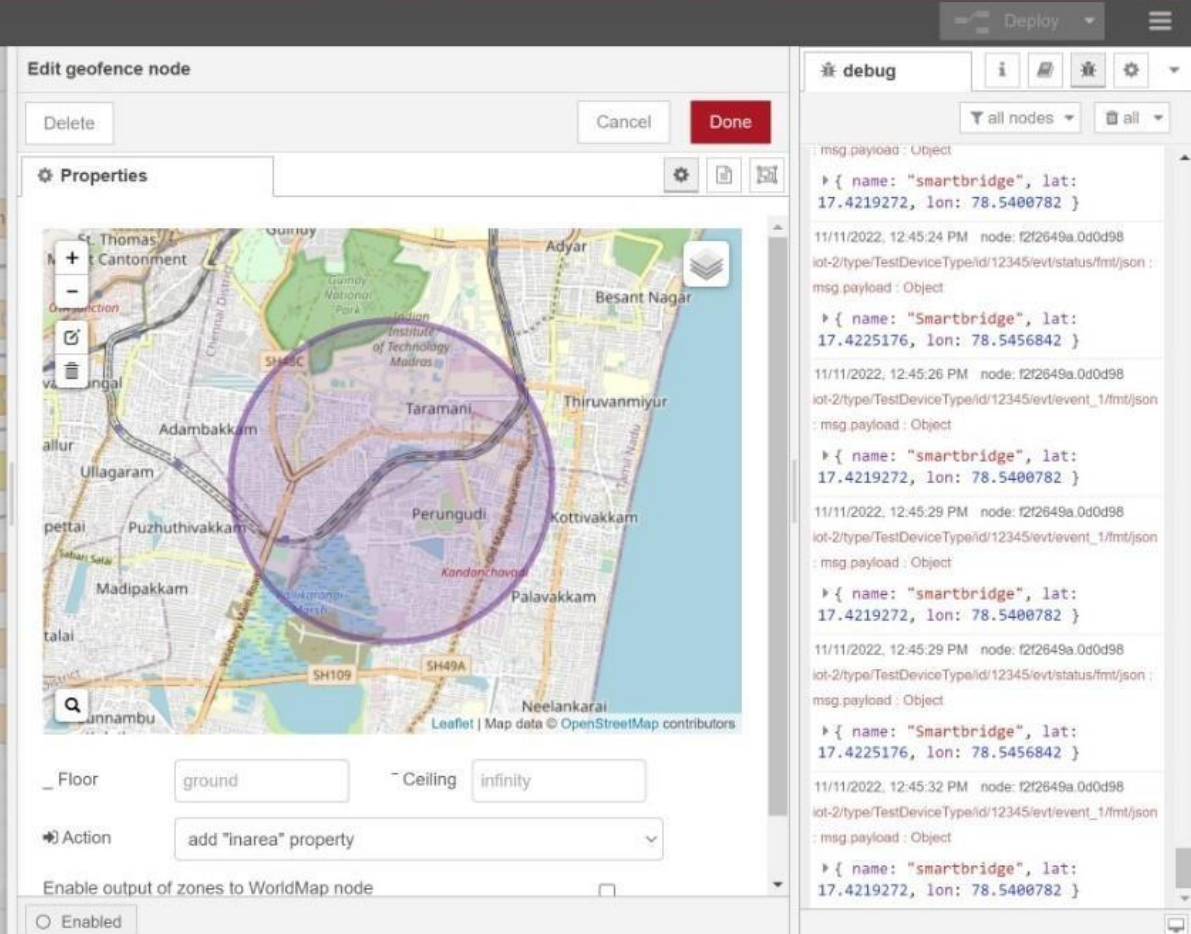
- Created the GeoFence

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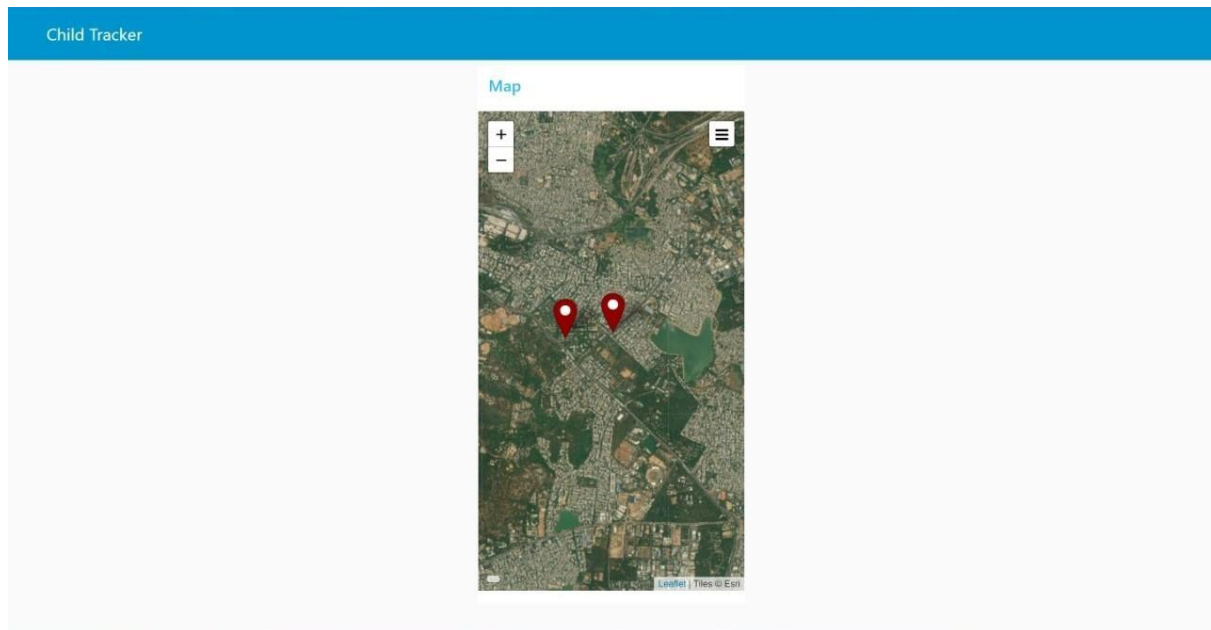
Result: Successfully developed the web application using Node-RED