

DEVELOP THE WEB APPLICATION USING NODE-RED

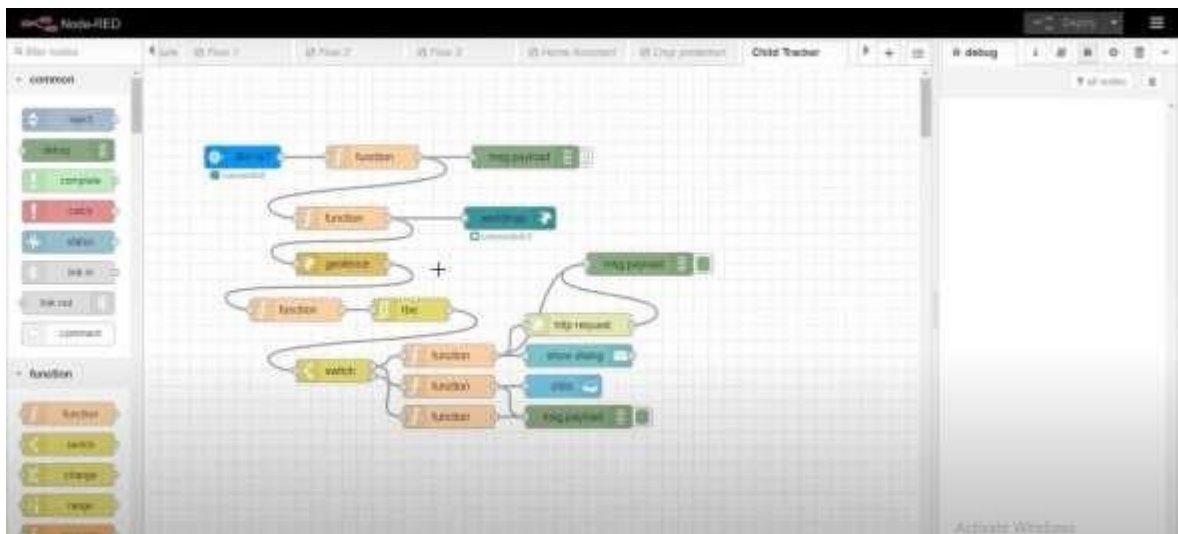
Team ID: PNT2022TMID21729

Project Name: IoT Based Safety Gadget for Child Safety Monitoring and notification

Aim: Develop the web application using Node-RED

Steps Followed:

- Opened a Node-RED project



- Added code to get child location in python

```
import json
import wiotp.sdk.device
import time

myConfig = {
    "identity": {
        "orgId": "h35fmy",
        "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

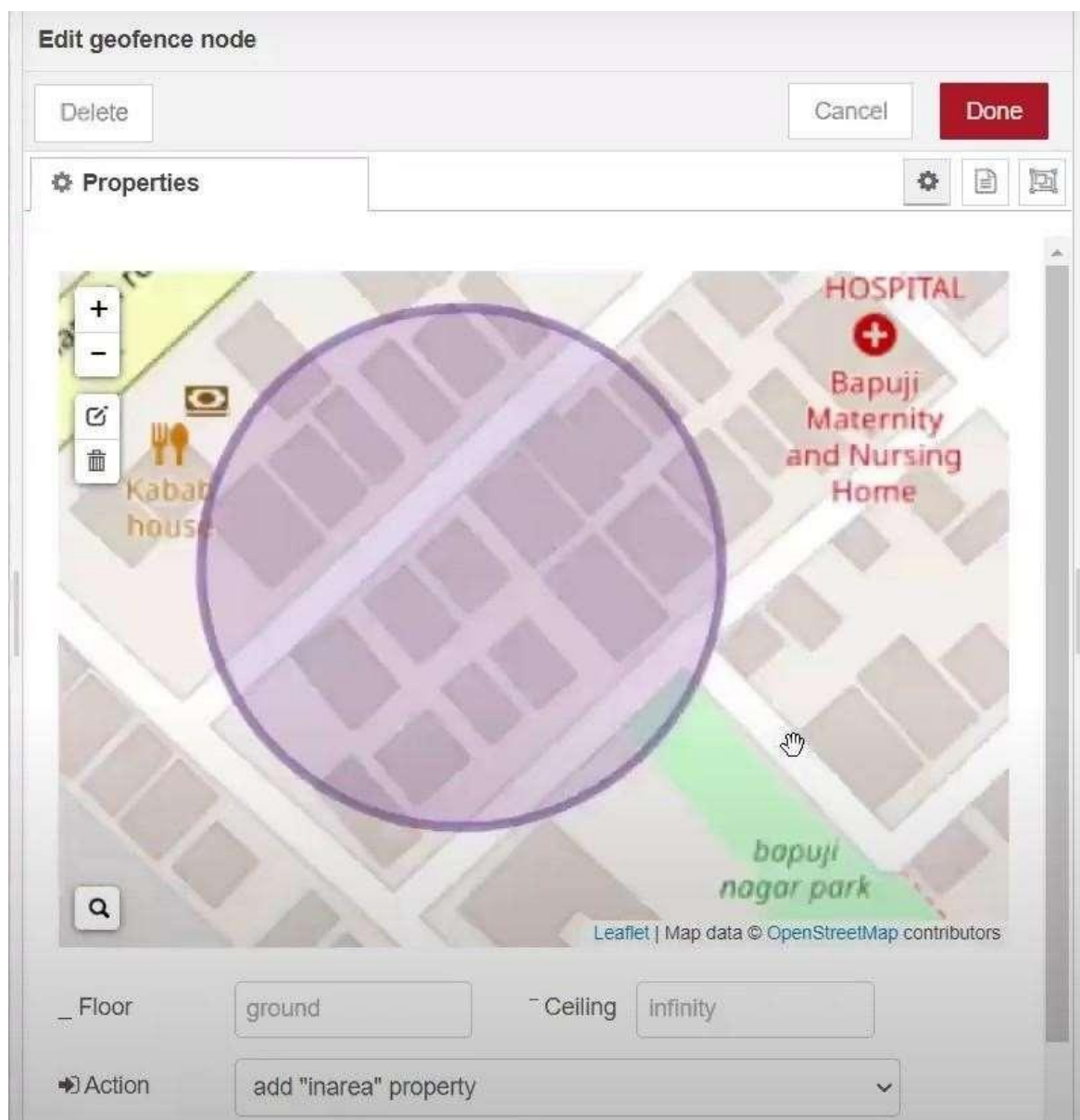
    latitude= 17.4225176
    longitude= 78.5458842

    #out area location

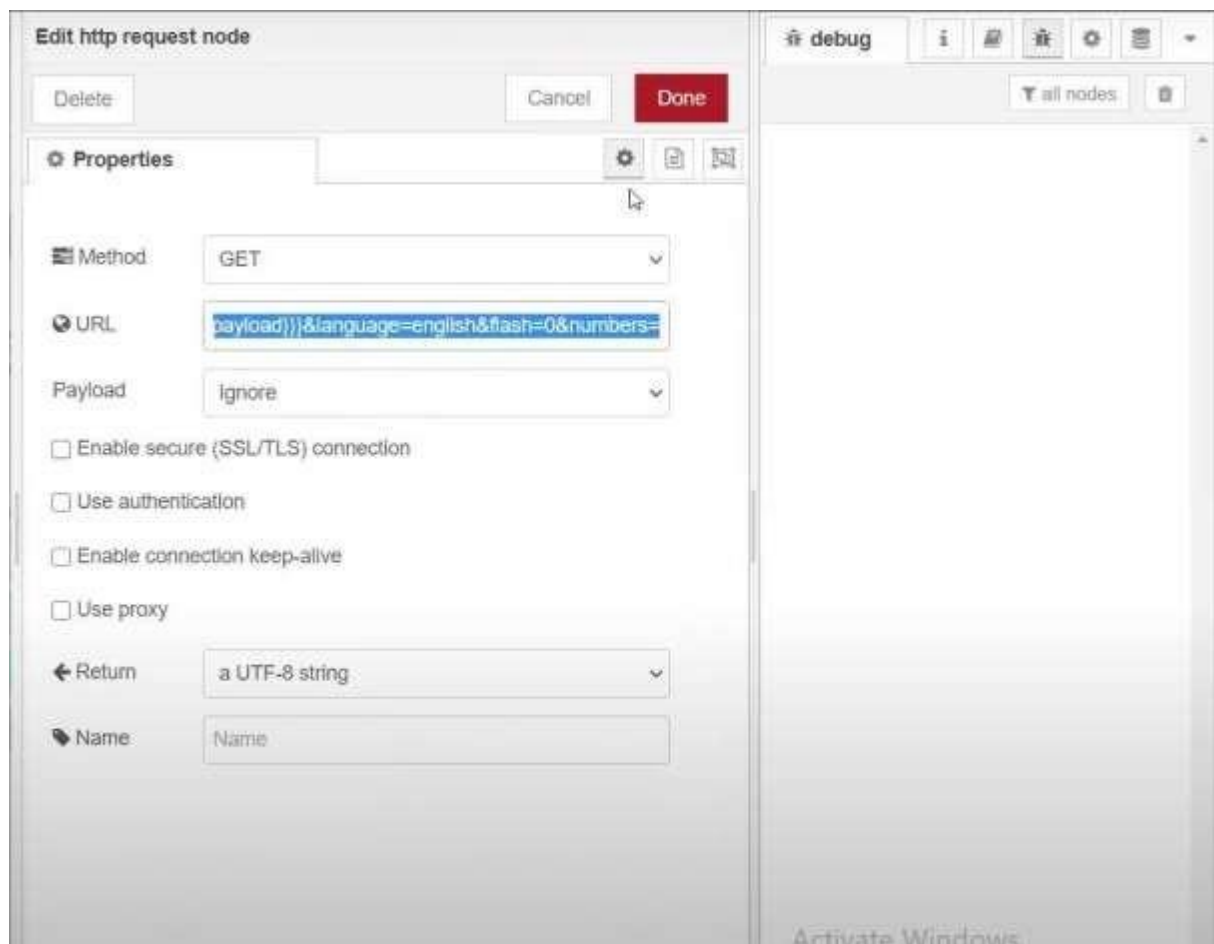
    #latitude= 17.4219272
    #longitude= 78.5488783
    myData=[{'name': name, 'lat':latitude, 'lon':longitude}]
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ",myData)
    time.sleep(5)

client.disconnect()
```

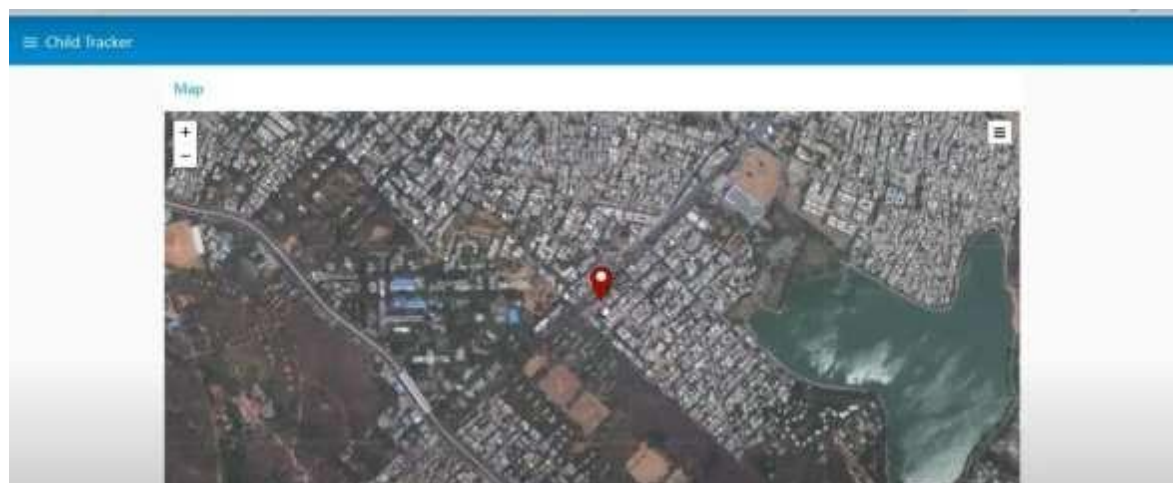
- Created the GeoFence



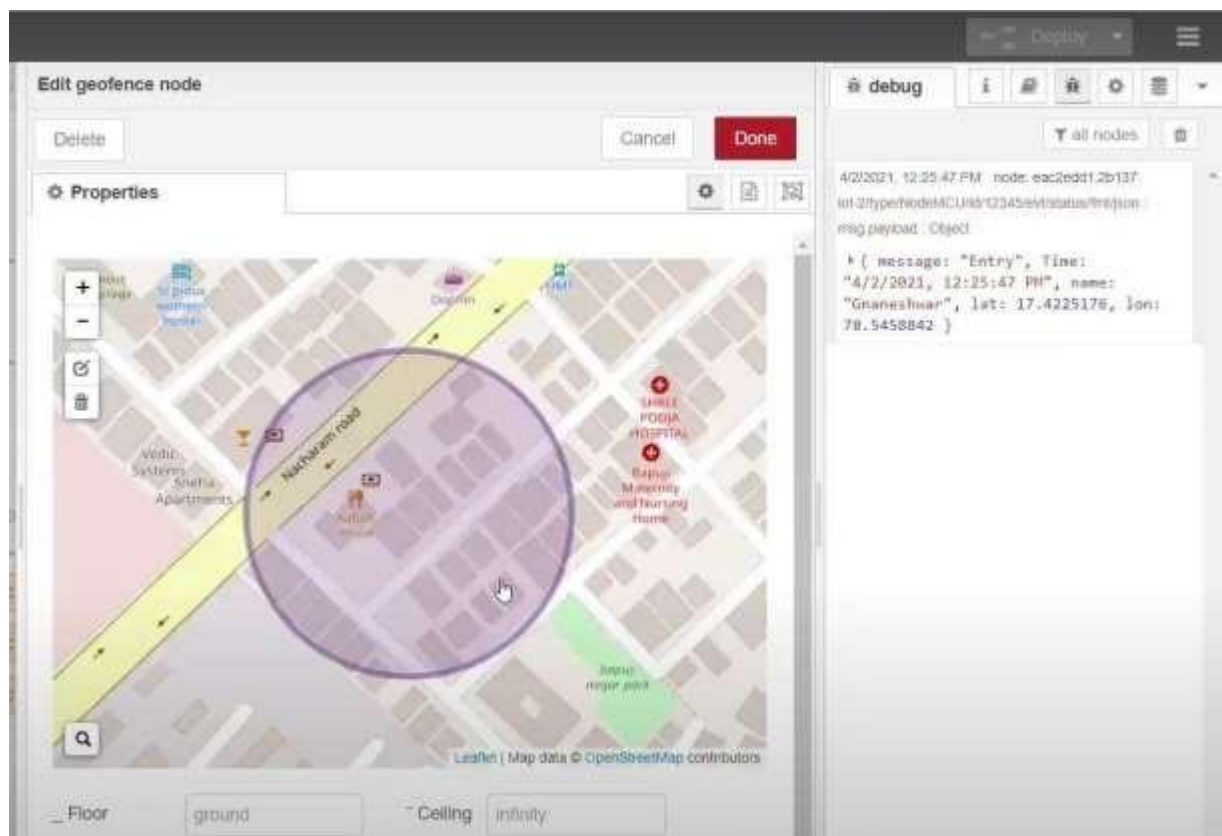
- Editing the HTTP Request URL



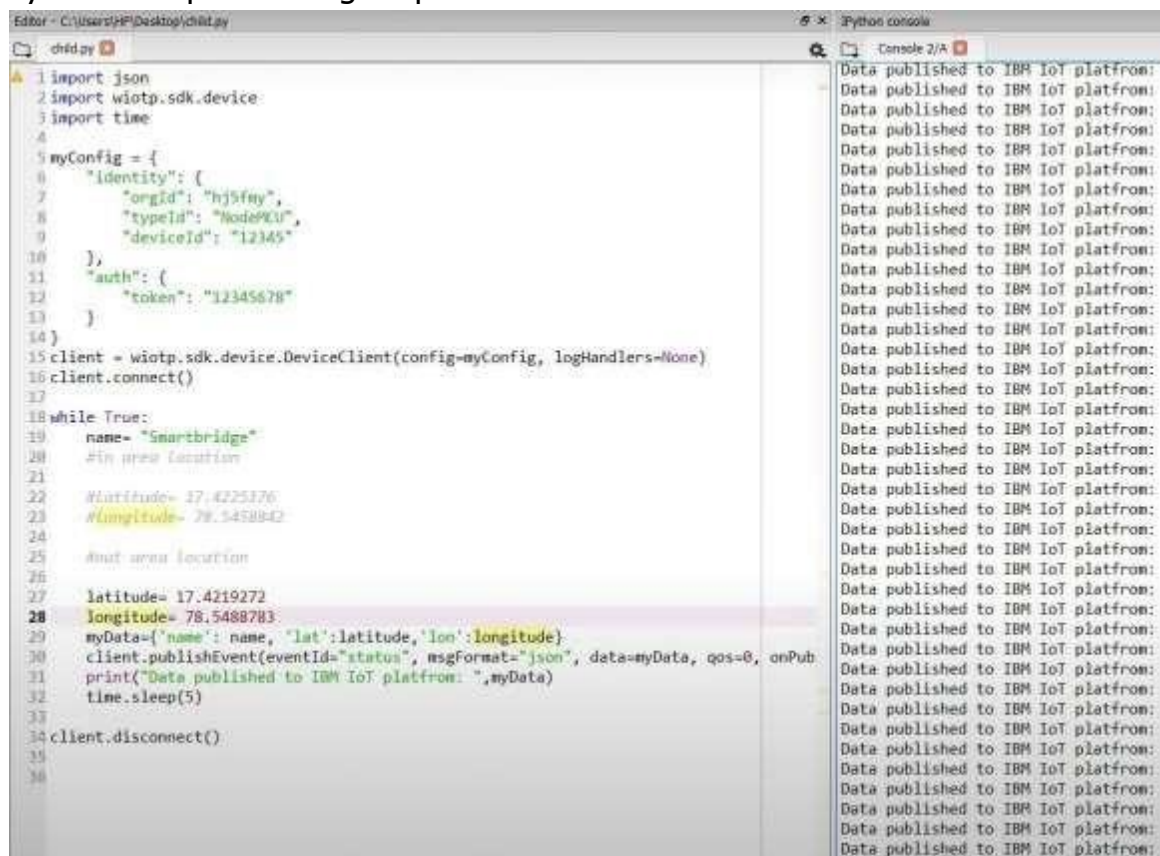
- Located the child



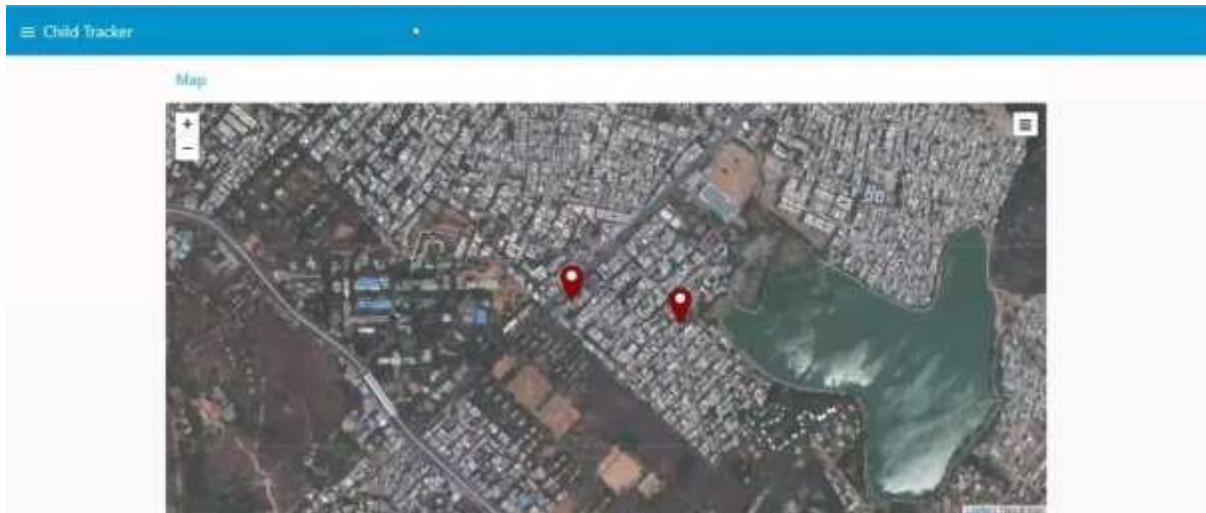
- Created the geofence node



- 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