DEVELOP A WEB APPLICATION USING NODE-RED SERVICE
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DATE	29 OCTOBER 2022
TEAM ID	PNT2022TMID41585
PROJECT NAME	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION
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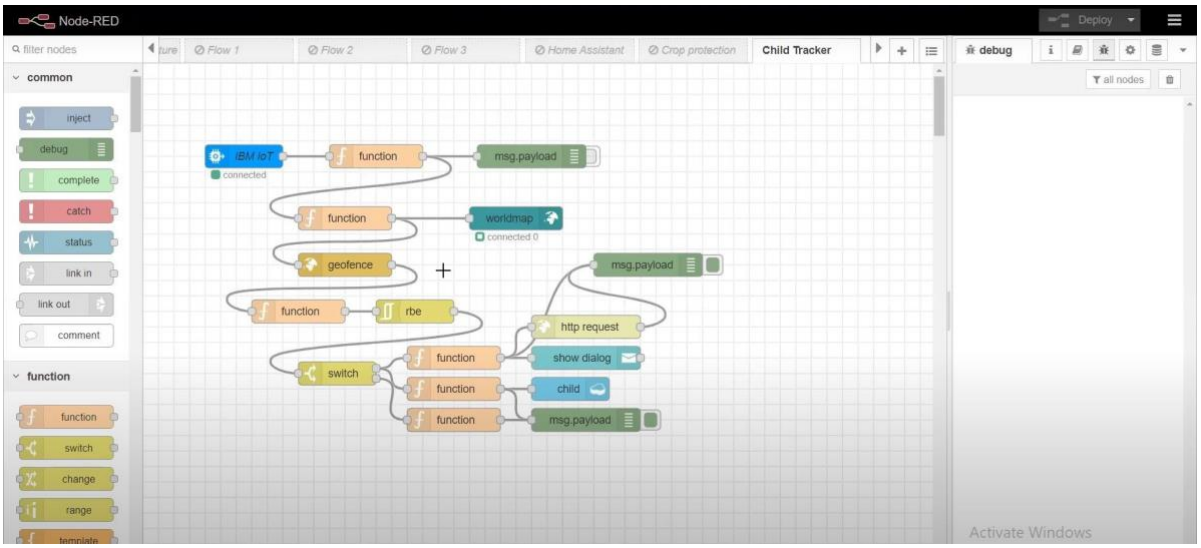
Aim: Develop the web application using Node-RED Steps Followed:

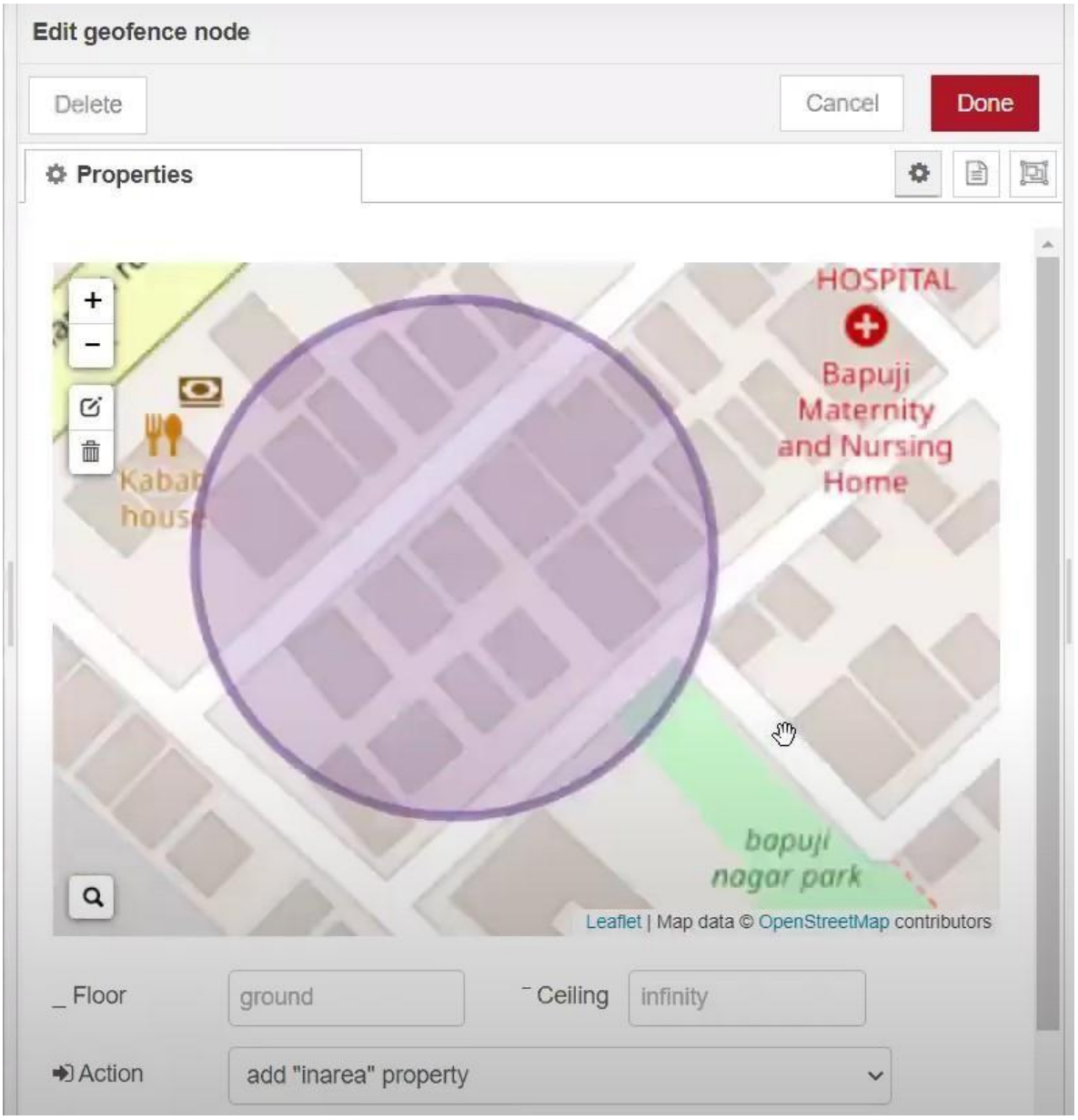
Opened a Node-RED project



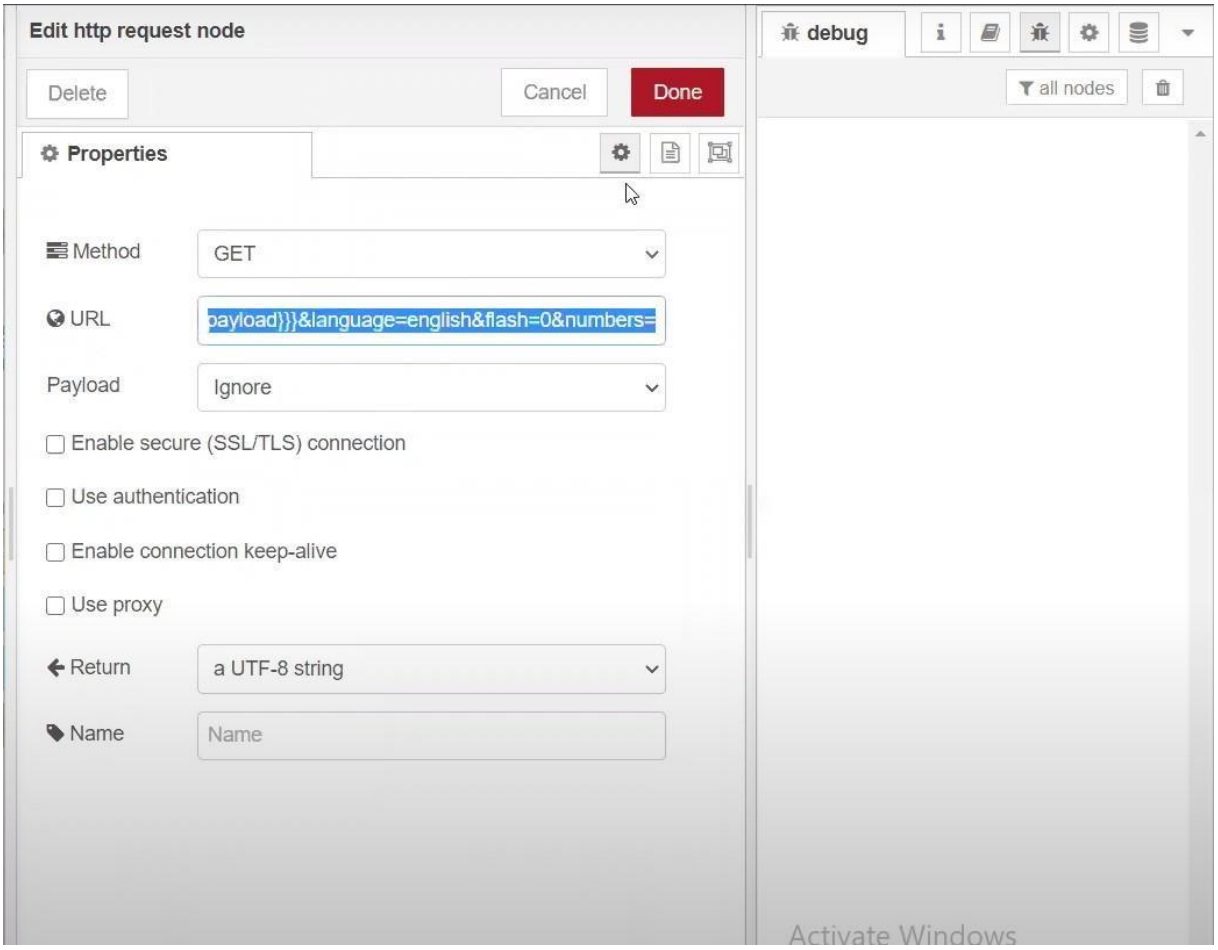
Added code to get child location in python

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

myConfig = {
    "identity": {
        "orgId": "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()
```

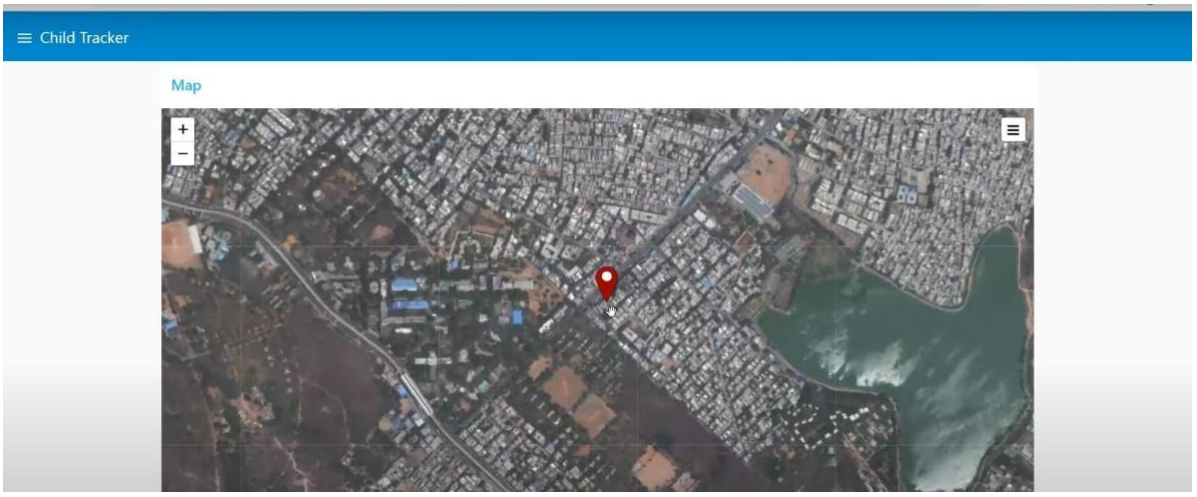
Created the GeoFence



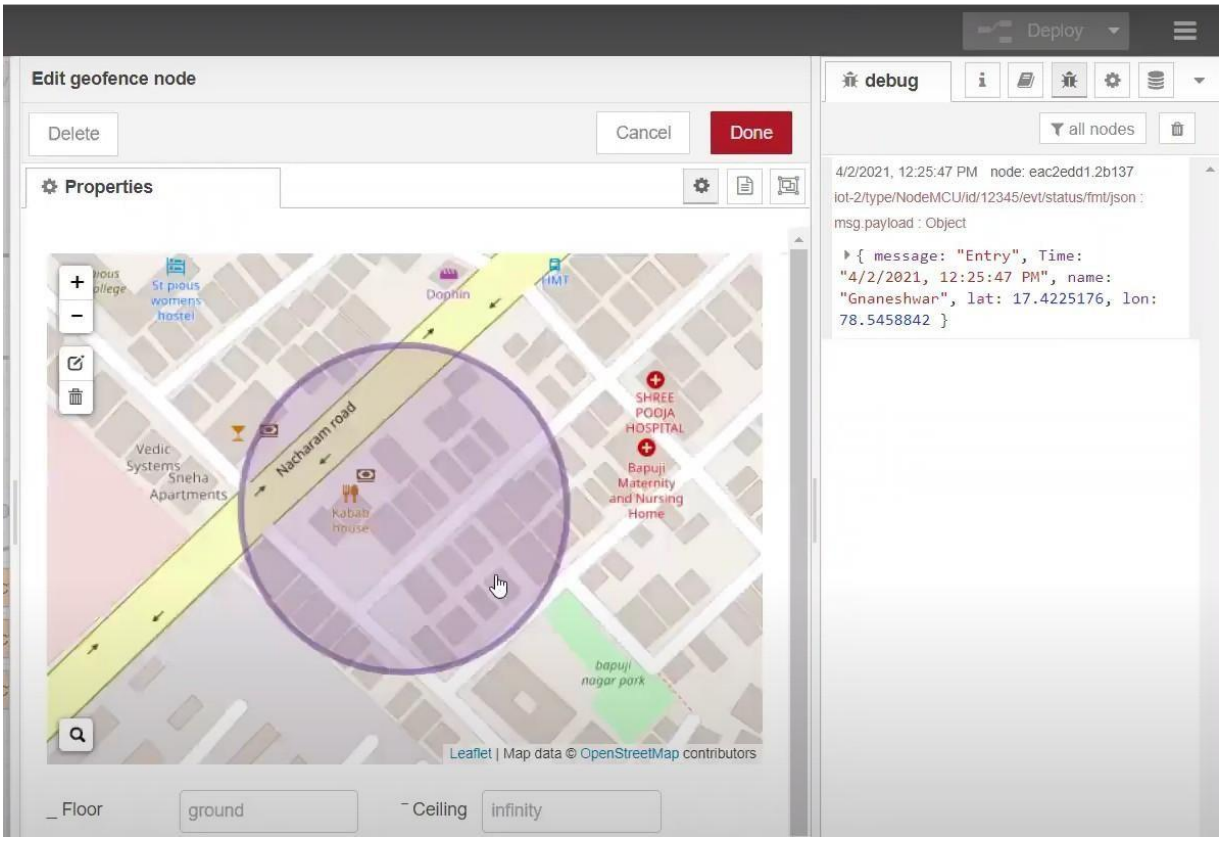
Editing the HTTP Request URL



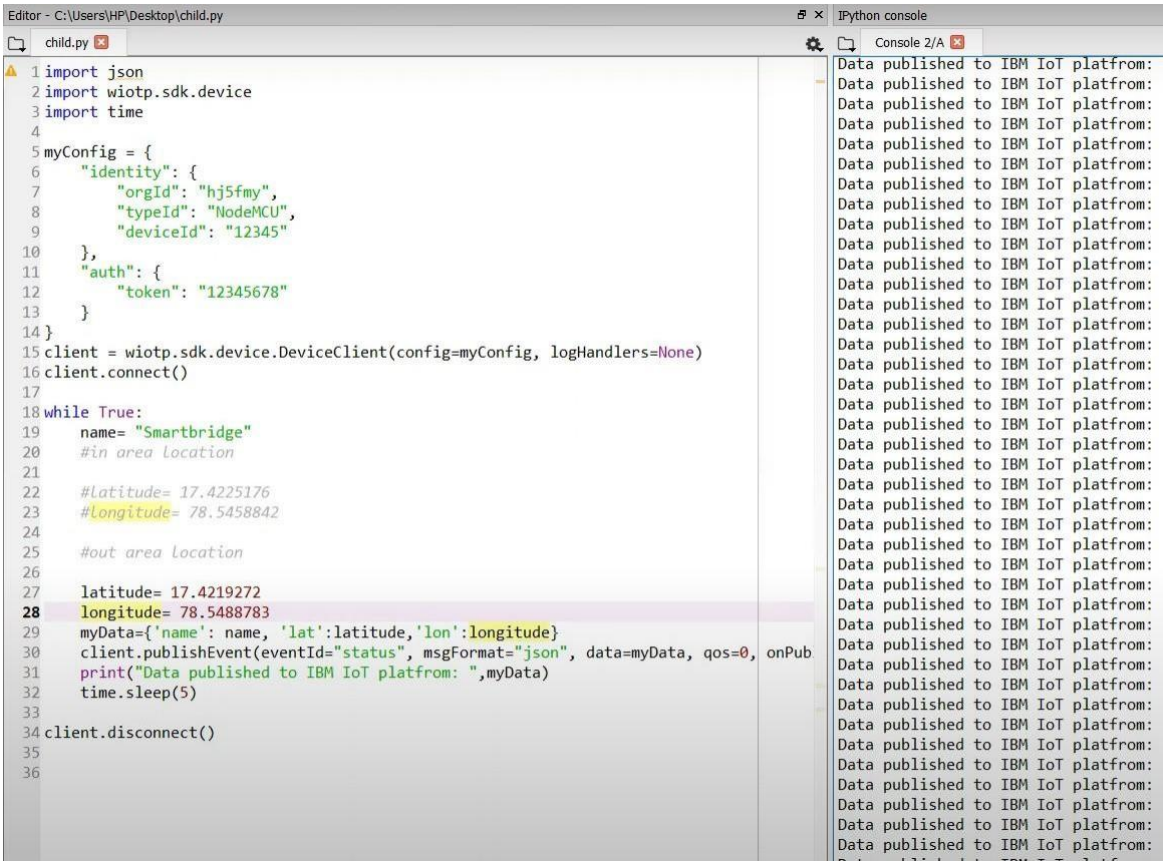
Located the child



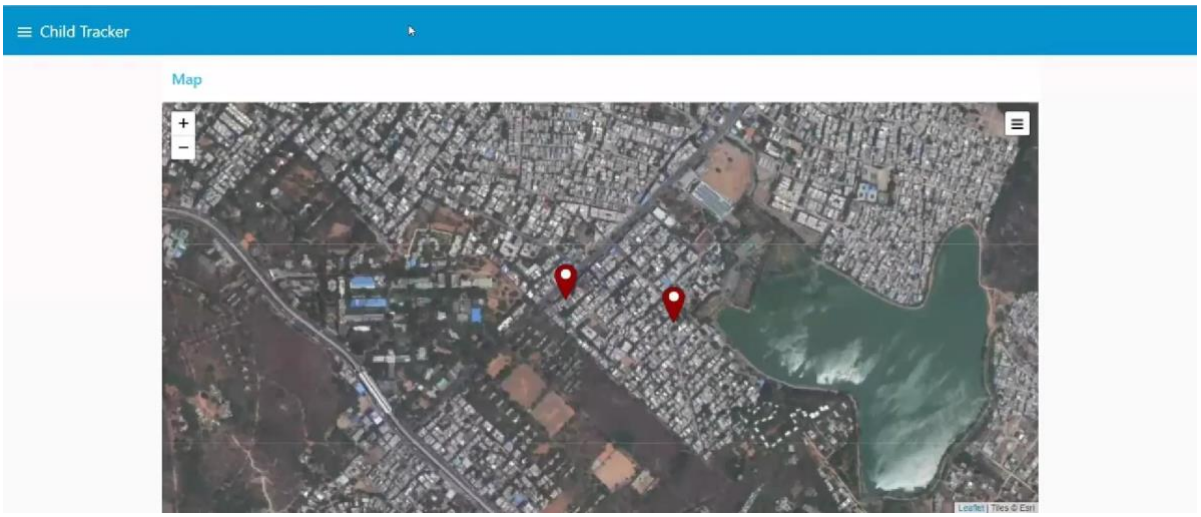
Created the geofence node



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 the web application using Node-RED