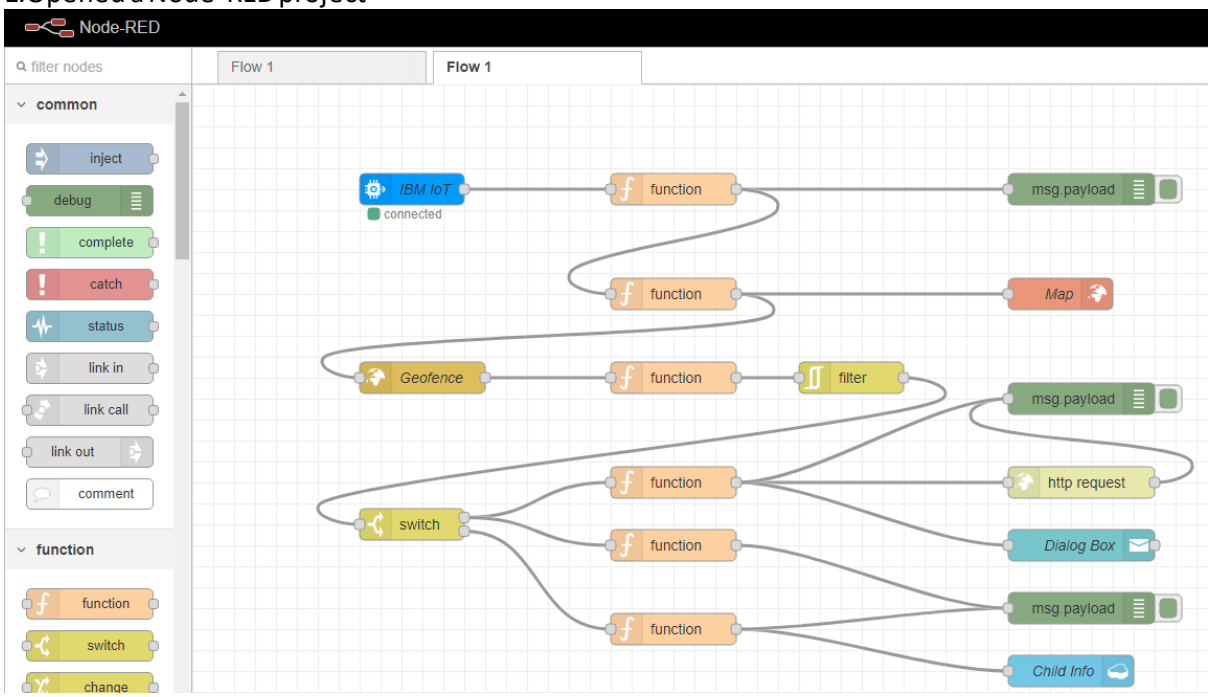
Develop A Web Application Using Node-RED Service
Develop The Web Application Using Node-RED

Date	27 August 2022
Team ID	PNT2022TMID18337
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification

Steps Followed:

1.Opened a Node-RED project

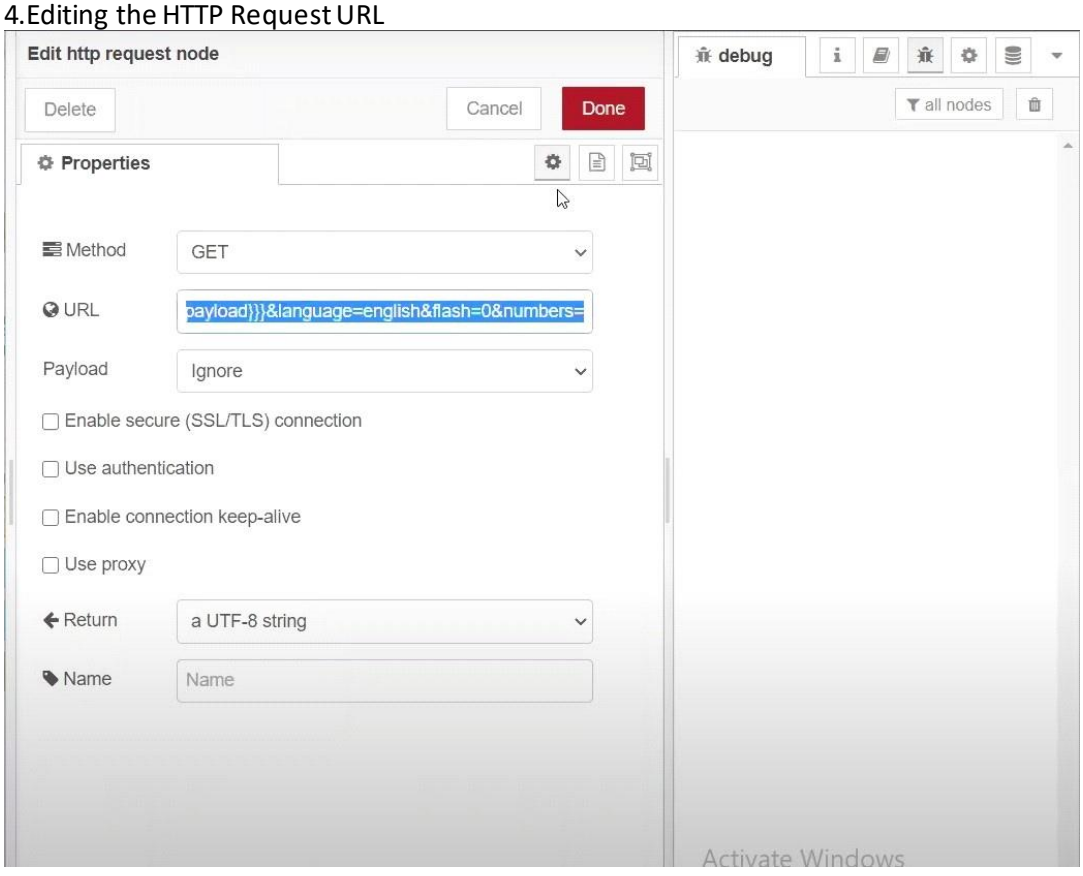


2.Added code to get child location in python

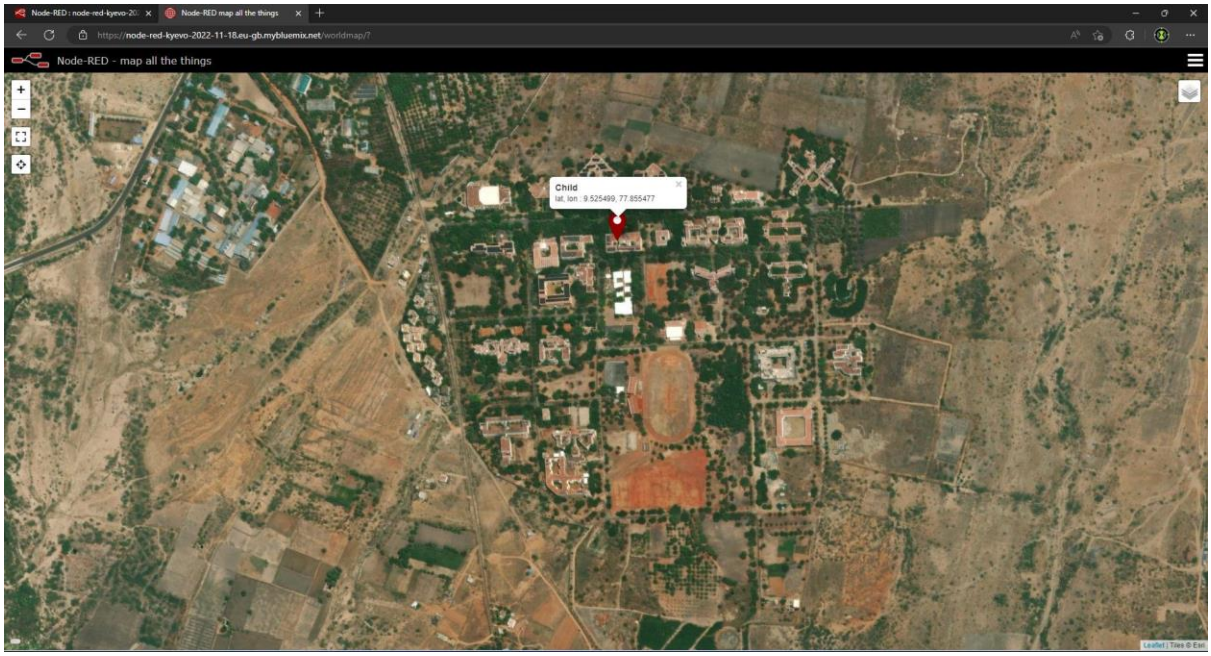
```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

organization = "92rnyd"
deviceType = "GPS"
deviceId = "1234"
authMethod = "token"
authToken = "12345678"

try:
        deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken}
        deviceCli = ibmiotf.device.Client(deviceOptions)

except Exception as e:
        print("Caught exception connecting device: %s" % str(e))
        sys.exit()

deviceCli.connect()

while True:
        name="Child"
        #latitude,longitude=9.525498643996373,77.85547697431774  #inarea
        #latitude,longitude=9.531834223946193,77.84996742667008  #outarea
        data = { 'name' : name, 'lat': latitude ,'lon': longitude }
        #print data
        def myOnPublishCallback():
            print ("Published Latitude = ",latitude,"Longitude = ",longitude,"to IBM Watson")

        success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
        if not success:
            print("Not connected to IoTF")
        time.sleep(10)

deviceCli.disconnect()
```

3.Created the GeoFence

4.Editing the HTTP Request URL

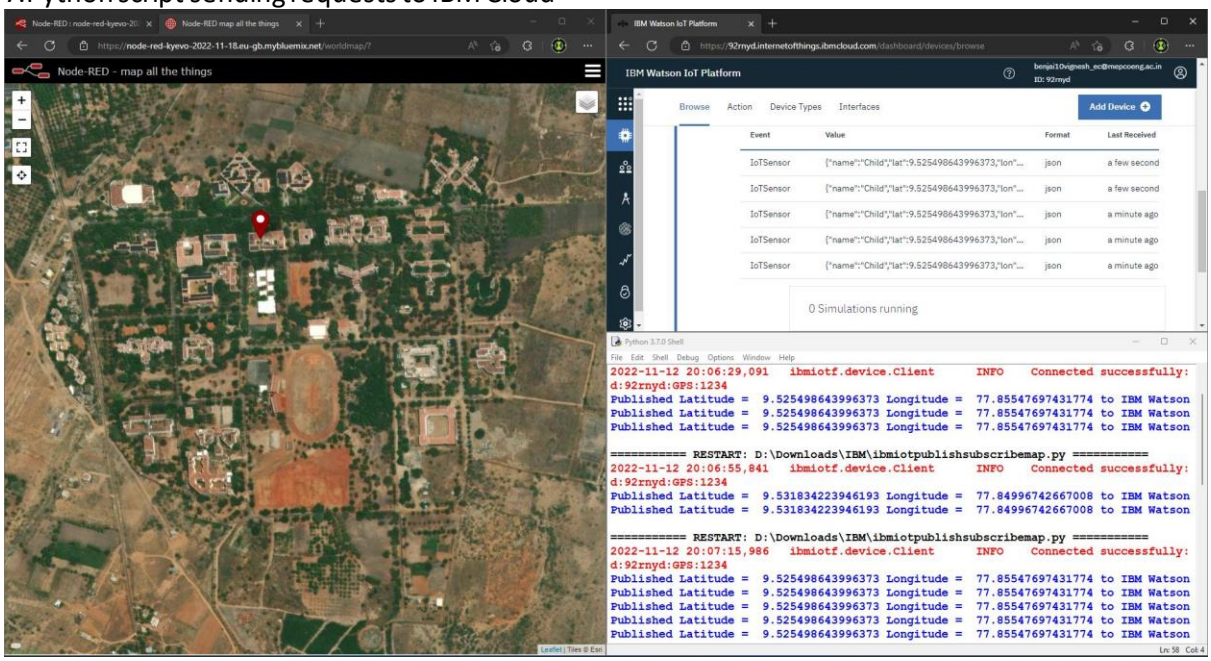


5.Located the child



6.Created the geofence node

7.Python script sending requests to IBM Cloud



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

Result:

Successfully developed a web application using Node-RED