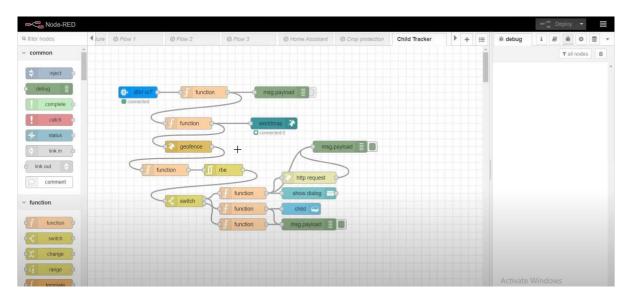
DEVELOP A WEB APPLICATION USING NODE-RED SERVICE DEVELOP THE WEB APPLICATION USING NODE-RED

DATE	29 OCTOBER 2022
TEAM ID	PNT2022TMID26623
	IOT BASED SAFETY GADGET
PROJECT	FOR
NAME	CHILD SAFETY MONITORING
	ANDNOTIFICATION

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 tine

myconfig = {
    "identity": {
        "orgId": "hj5fmy",
        "everied": "12345"
},
    "auth": {
        "token": "12345678"
} }

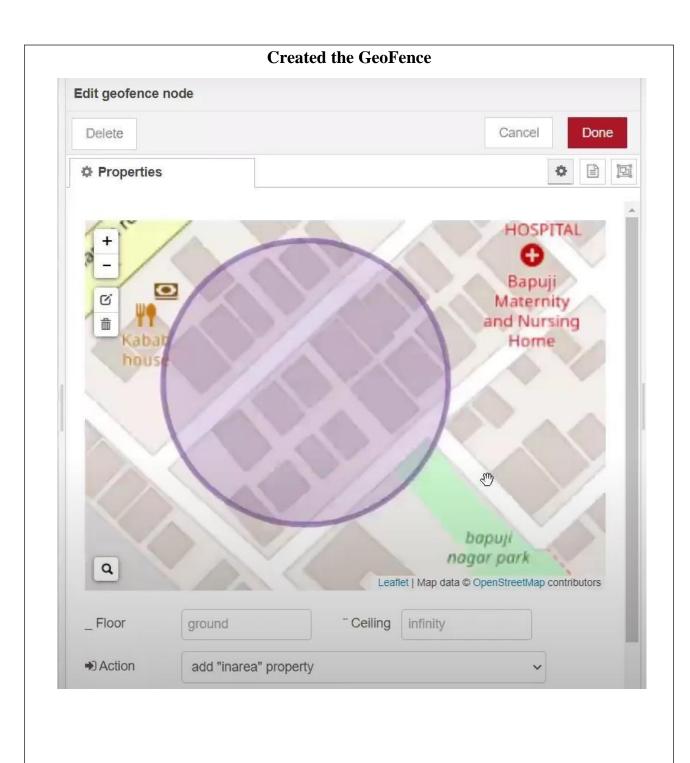
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

Thie True:
    name= "Smartbridge"
    *in area location
    latitude= 17.4225176
    longitude= 78.5458842

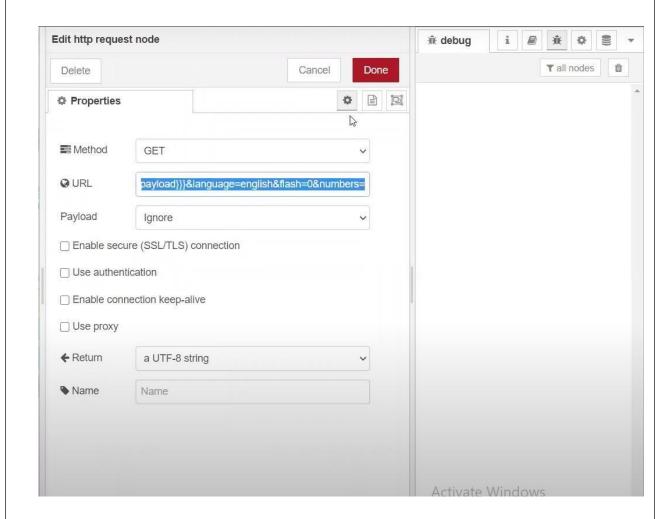
    *fout area location

    *latitude= 17.4219272
    *longitude= 78.5488883
    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)

client.disconnect()
```



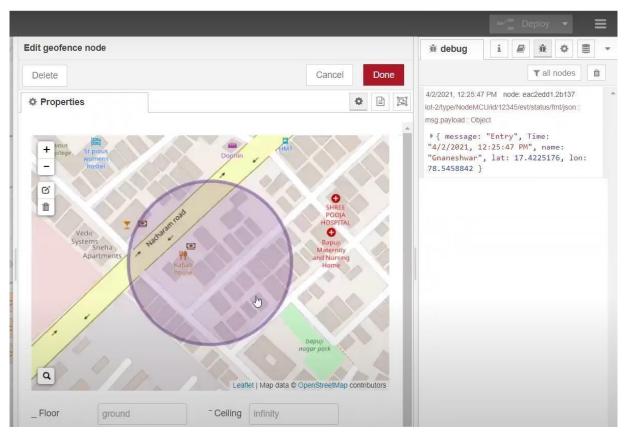
Editing the HTTP Request URL



Located the child



Created the geofence node



Python script sending requests to IBM Cloud

```
{\sf Editor - C:\Users\HP\Desktop\child.py}
                                                                                                                     Console 2/A 🔯
child.py 🖸
                                                                                                                      Data published to IBM IoT platfrom:
     import json
import wiotp.sdk.device
                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
    3 import time
                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
    5 myConfig = {
                                                                                                                      Data published to IBM IoT platfrom:
           "identity": {
    "orgId": "hj5fmy",
    "typeId": "NodeMCU",
                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
               "deviceId": "12345"
                                                                                                                      Data published to IBM IoT platfrom:
  10
                                                                                                                      Data published to IBM IoT platfrom:
            auth": {
                                                                                                                      Data published to IBM IoT platfrom:
                "token": "12345678"
                                                                                                                      Data published to IBM IoT platfrom:
  13
                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
  15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
                                                                                                                      Data published to IBM IoT platfrom:
  16 client.connect()
                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
  18 while True:
19 name= "Smartbridge"
20 #in area Location
                                                                                                                      Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
  22
          #Latitude= 17.4225176
          #longitude= 78.5458842
                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
  25
          #out area location
                                                                                                                      Data published to IBM IoT platfrom:
  26
                                                                                                                      Data published to IBM IoT platfrom:
          latitude= 17.4219272
                                                                                                                      Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
         myData={'name': name, 'lat':latitude,'lon':longitude}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPub
print("Data published to IBM IoT platfrom: ",myData)
time.sleep(5)
  28
                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
  34 client.disconnect()
                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
                                                                                                                      Data published to IBM IoT platfrom:
```

After running the script, the web UI shows "Person is not in the particular area"



Result: Successfully developed the web application using Node-RED