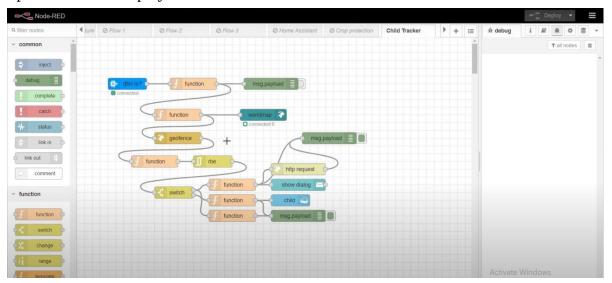
## Develop AWebApplicationUsingNode-RED

Date	26 October2022
Team ID	PNT2022TMID40028
ProjectName	Project-IoTBasedSafetyGadgetForChild SafetyMonitoring& Notification
MaximumMarks	2 Marks
Submitted by	Nandhakumar J

## StepsFollowed:

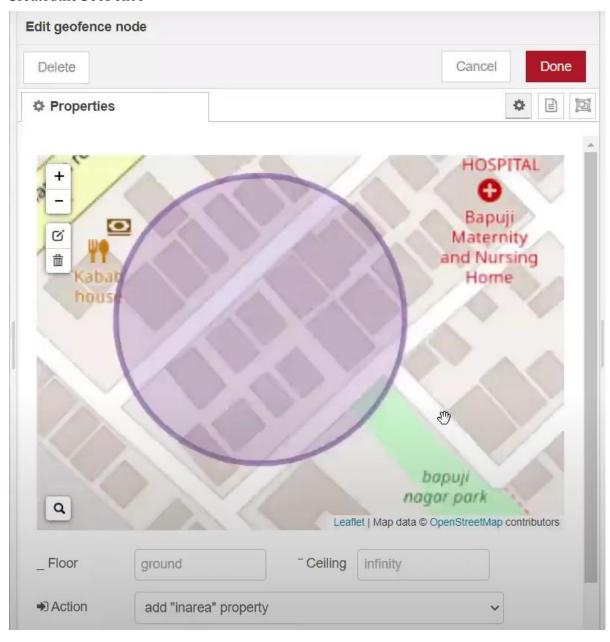
# • OpenedaNode-REDproject



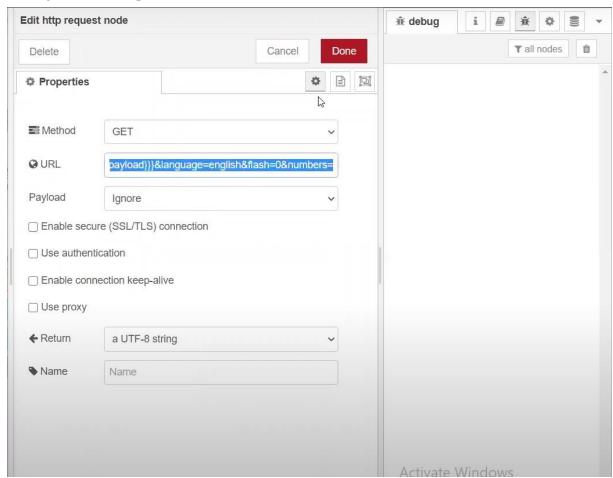
#### Addedcodetogetchildlocationinpython

```
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
         #langitude= 77.4219272
#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()
```

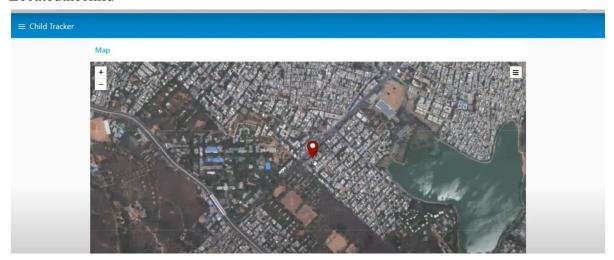
# • CreatedtheGeoFence



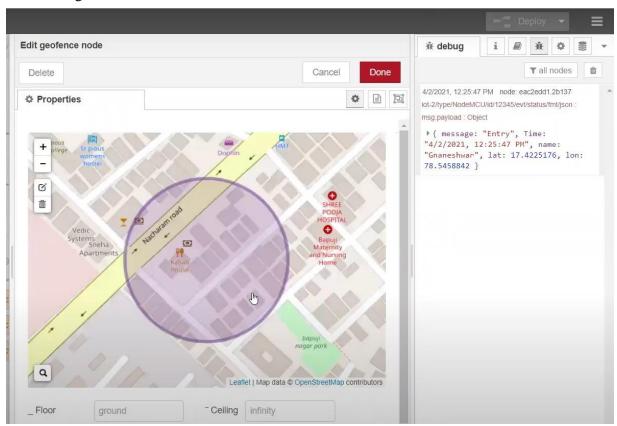
# • EditingtheHTTPRequestURL



## • Locatedthechild



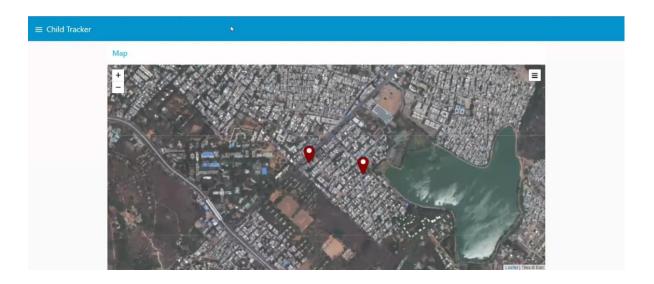
• Createdthegeofencenode



PythonscriptsendingrequeststoIBMCloud

```
Editor - C:\Users\HP\Desktop\child.py
child.py
                                                                                                           Console 2/A 🖾
                                                                                                            Data published to IBM IoT platfrom:
   1 import json
                                                                                                           Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
   2 import wiotp.sdk.device
   3 import time
                                                                                                            Data published to IBM IoT platfrom:
                                                                                                            Data published to IBM IoT platfrom:
   5 myConfig = {
         "identity": {
    "orgId": "hj5fmy",
    "typeId": "NodeMCU",
                                                                                                           Data published to IBM IoT platfrom:
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:
                                                                                                            Data published to IBM IoT platfrom:
  14}
                                                                                                            Data published to IBM IoT platfrom:
  15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
                                                                                                            Data published to IBM IoT platfrom:
                                                                                                            Data published to IBM IoT platfrom:
                                                                                                            Data published to IBM IoT platfrom:
  18 while True:
19 name= "Smartbridge"
                                                                                                            Data published to IBM IoT platfrom:
                                                                                                            Data published to IBM IoT platfrom:
         #in area location
                                                                                                           Data published to IBM IoT platfrom:
  21
                                                                                                            Data published to IBM IoT platfrom:
         #Latitude= 17.4225176
                                                                                                            Data published to IBM IoT platfrom:
         #longitude= 78.5458842
                                                                                                            Data published to IBM IoT platfrom:
  24
25
                                                                                                            Data published to IBM IoT platfrom:
         #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:
  28
         longitude= 78.5488783
         Inngitude 76:346763 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)
                                                                                                            Data published to IBM IoT platfrom:
                                                                                                            Data published to IBM IoT platfrom:
                                                                                                            Data published to IBM IoT platfrom:
         time.sleep(5)
                                                                                                            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:
  36
                                                                                                            Data published to IBM IoT platfrom:
                                                                                                            Data published to IBM IoT platfrom:
                                                                                                            Data published to IBM IoT platfrom:
                                                                                                            Data published to IBM IoT platfrom:
```

• Afterrunningthescript, the webUI shows "Person is not in the particular area"



Result: Successfully developed a web application using Node-RED