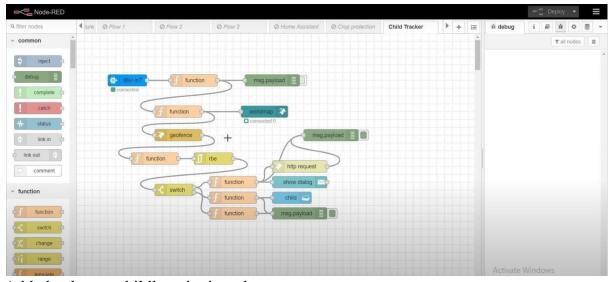
Develop AWebApplicationUsingNode-RED

Date	26 October 2022
Team ID	PNT2022TMID01887
	Project-IoTBasedSafetyGadgetForChild SafetyMonitoring& Notification
MaximumMarks	2 Marks

StepsFollowed:

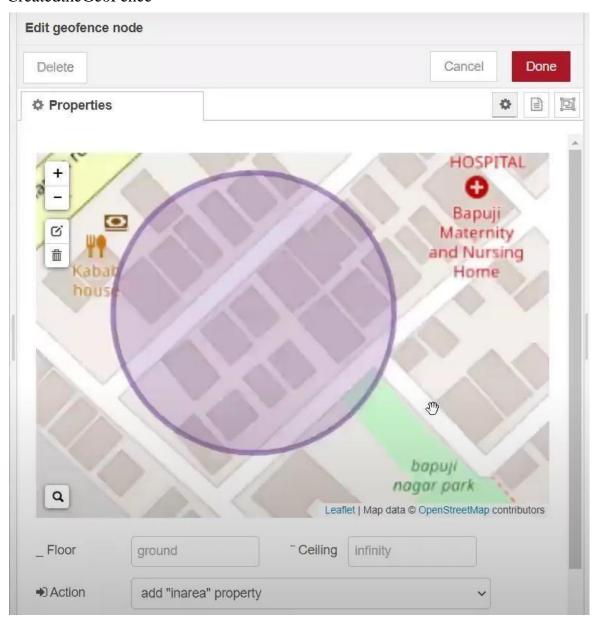
OpenedaNode-REDproject



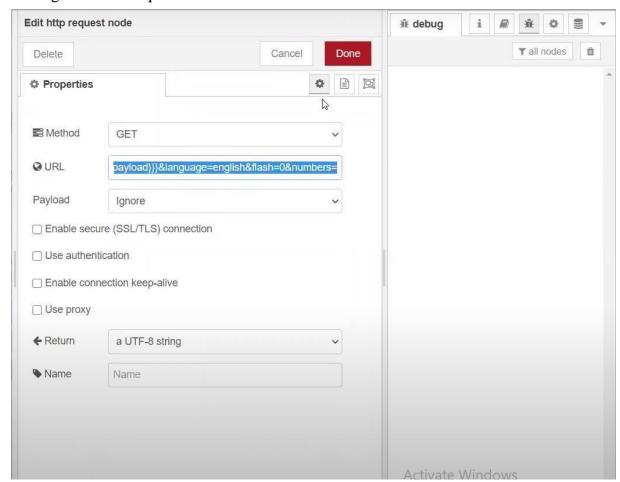
• Addedcodetogetchildlocationinpython

```
import wiotp.sdk.device
import time
myConfig = {
      mig = {
"identity": {
    "orgId": "hj5fmy",
    "typeId": "NodeMcU",
    "deviceId": "12345"
      "auth": {
            "token": "12345678"
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
            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()
```

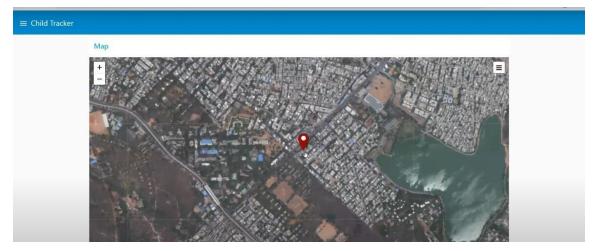
• CreatedtheGeoFence



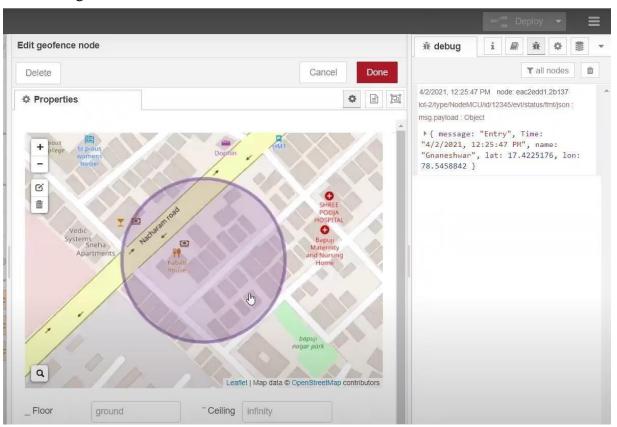
$\bullet \ \ Editing the HTTPR equest URL$



• Locatedthechild



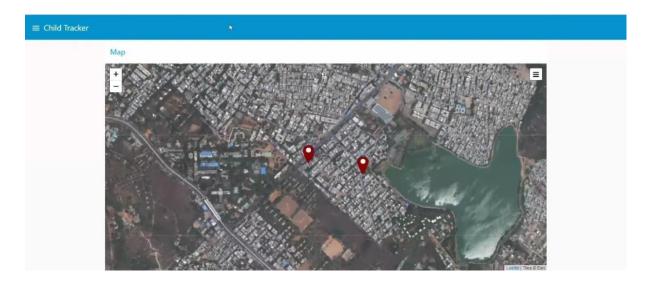
• Createdthegeofencenode



• PythonscriptsendingrequeststoIBMCloud

```
child.py 🔲
                                                                                                                          Console 2/A 🖾
                                                                                                                          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:
Data published to IBM IoT platfrom:
   5 myConfig = {
           "identity": {
    "orgId": "hj5fmy",
    "typeId": "NodeMCU",
    "deviceId": "12345"
                                                                                                                          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:
  10
                                                                                                                          Data published to IBM IoT platfrom:
            auth": {
                "token": "12345678"
                                                                                                                          Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
                                                                                                                          Data published to IBM IoT platfrom:
                                                                                                                          Data published to IBM IoT platfrom:
  15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None) 16 client.connect()
                                                                                                                          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:
Data published to IBM IoT platfrom:
          #in area locati
                                                                                                                          Data published to IBM IoT platfrom:
          #Latitude= 17.4225176
                                                                                                                          Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
  23
24
                                                                                                                          Data published to IBM IoT platfrom:
  25
26
          #out area location
                                                                                                                          Data published to IBM IoT platfrom:
                                                                                                                          Data published to IBM IoT platfrom:
          latitude= 178.5488783
myData={'name': name, 'lat':latitude,'lon':longitude}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
print("Data published to IBM IoT platfrom: ",myData)
time.sleep(5)
                                                                                                                          Data published to IBM IoT platfrom:
  28
                                                                                                                          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:
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