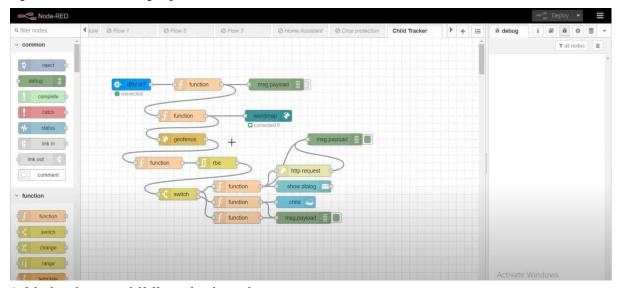
Develop A Web Application Using Node-RED

Date	26 October 2022
Team ID	PNT2022TMID41904
1 3	Project-IoTBasedSafetyGadgetForChild SafetyMonitoring& Notification
MaximumMarks	2 Marks

StepsFollowed:

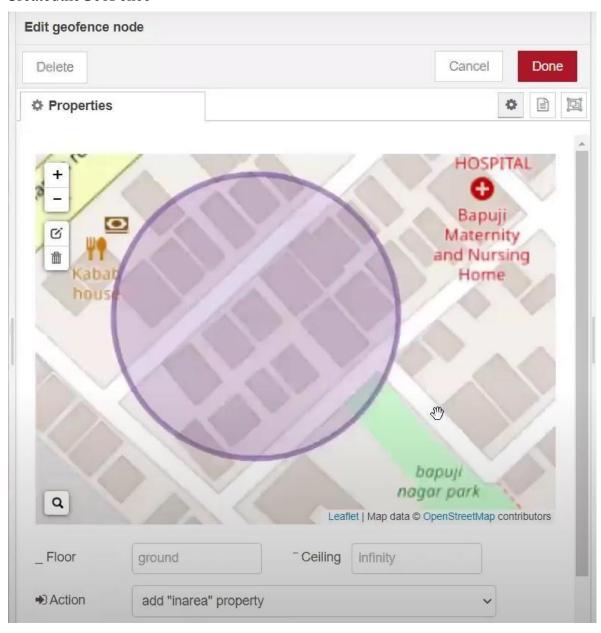
• OpenedaNode-REDproject



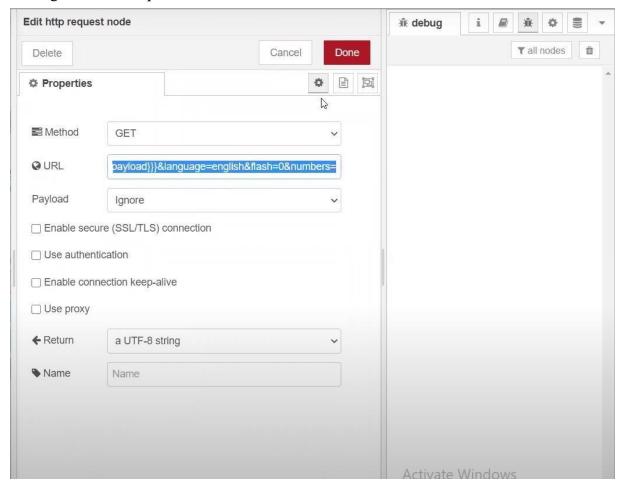
• Addedcodetogetchildlocationinpython

```
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
         #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)
client.disconnect()
```

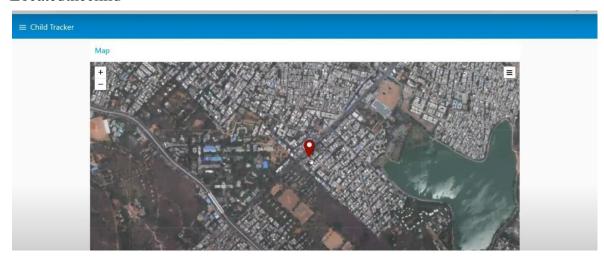
• CreatedtheGeoFence



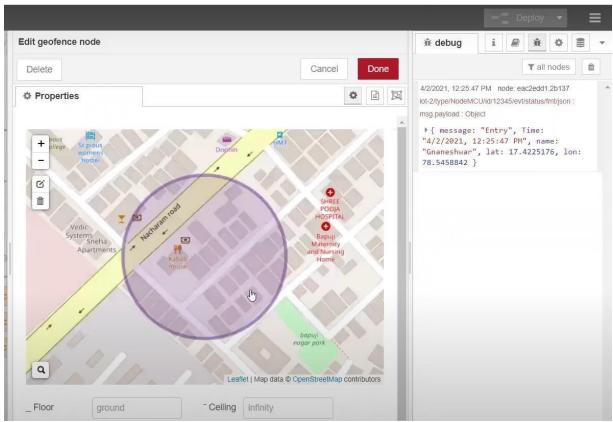
$\bullet \ \ Editing the HTTPR equest URL$



• Locatedthechild



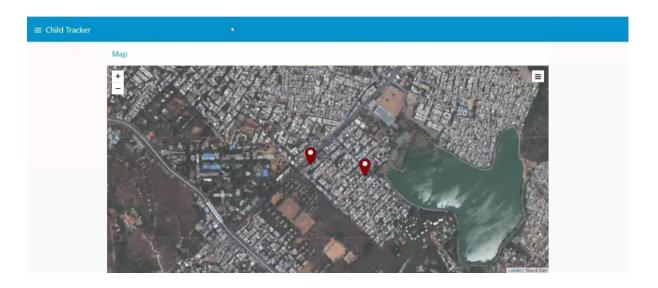
Createdthegeofencenode



• PythonscriptsendingrequeststoIBMCloud

```
Editor - C:\Users\HP\Desktop\child.py
                                                                                                child.py
                                                                                                    Console 2/A 🗵
                                                                                                    Data published to IBM IoT platfrom:
                                                                                                    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:
                                                                                                    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:
                                                                                                    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"
                                                                                                    Data published to IBM IoT platfrom:
                                                                                                    Data published to IBM IoT platfrom:
  20
         #in area location
                                                                                                    Data published to IBM IoT platfrom:
  21
                                                                                                    Data published to IBM IoT platfrom:
  22
        #Latitude= 17.4225176
                                                                                                    Data published to IBM IoT platfrom:
        #longitude= 78.5458842
                                                                                                    Data published to IBM IoT platfrom:
  24
                                                                                                    Data published to IBM IoT platfrom:
  25
        #out area location
                                                                                                    Data published to IBM IoT platfrom:
                                                                                                    Data published to IBM IoT platfrom:
         latitude= 17.4219272
                                                                                                    Data published to IBM IoT platfrom:
        longitude= 78.5488783
myData={ 'name': name, 'lat':latitude, 'lon':longitude}
  28
                                                                                                    Data published to IBM IoT platfrom:
                                                                                                    Data published to IBM IoT platfrom:
        client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, print("Data published to IBM IoT platfrom: ",myData)
  30
                                                                                                    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:
```

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



Result: Successfully developed a web application using Node-RED