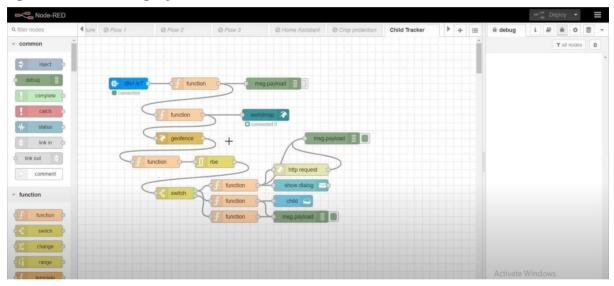
Develop AWebApplicationUsingNode-RED

Date	15 November 2022
Team ID	PNT2022TMID39997
ProjectName	Project-IoTBasedSafetyGadgetForChild SafetyMonitoring& Notification
MaximumMarks	2 Marks
Submitted by	K.Jayashree

StepsFollowed:

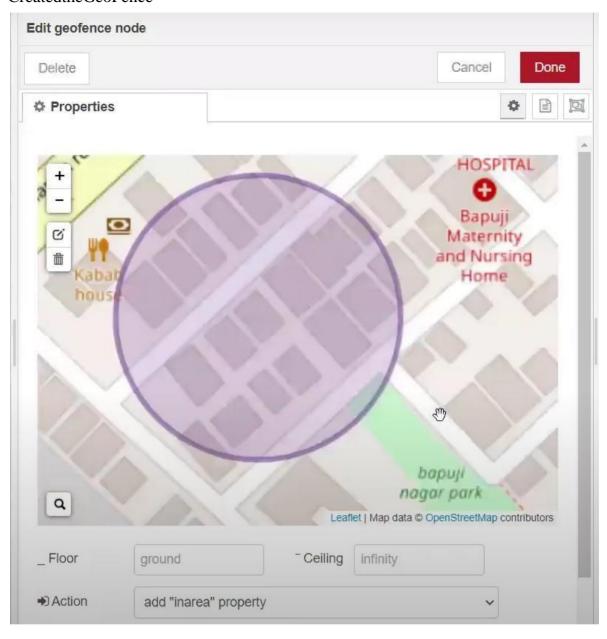
• OpenedaNode-REDproject



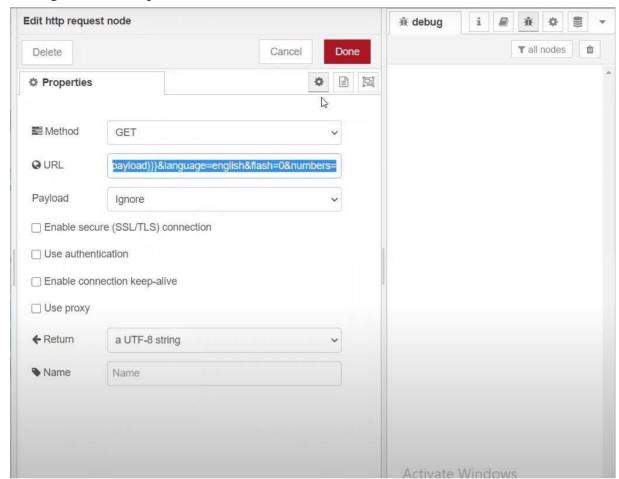
• Addedcodetogetchildlocationinpython

```
import wiotp.sdk.device
import time
myConfig = {
     miig = {
  "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)
          time.sleep(5)
client.disconnect()
```

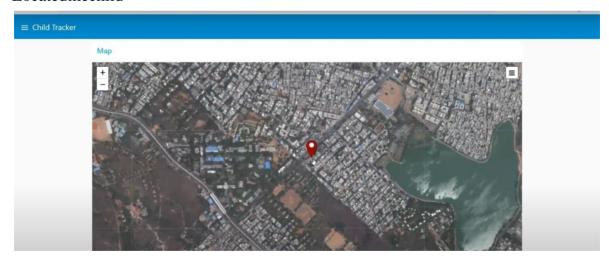
• CreatedtheGeoFence



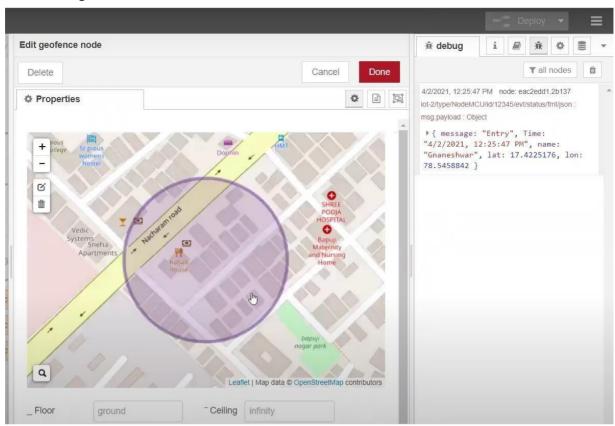
• EditingtheHTTPRequestURL



• Locatedthechild



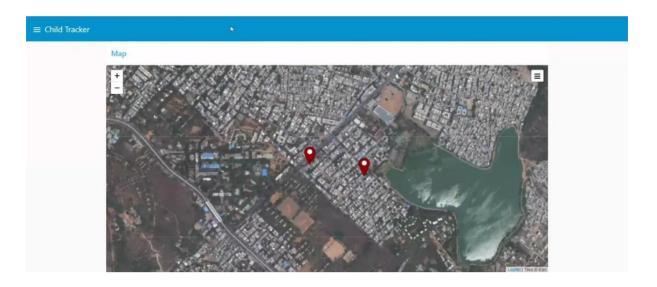
• Createdthegeofencenode



• PythonscriptsendingrequeststoIBMCloud

```
Editor - C:\Users\HP\Desktop\child.py
                                                                                                  ₽ × IPython console
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",
    "deviceId": "12345"
                                                                                                       Data published to IBM IoT platfrom:
                                                                                                       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)
                                                                                                       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:
         #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:
                                                                                                       Data published to IBM IoT platfrom:
 27
28
         latitude= 17.4219272
                                                                                                       Data published to IBM IoT platfrom:
         longitude= 78.5488783
myData={'name': name, 'lat':latitude,'lon':longitude}
                                                                                                       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