Develop a web application using Node-Red Services Develop the web application using Node-Red

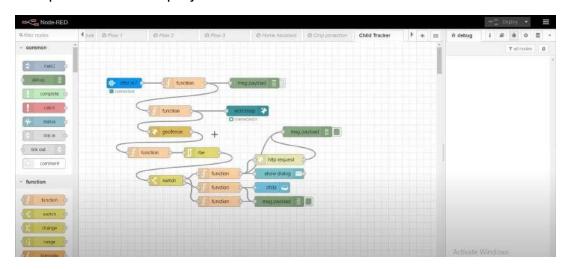
Date	14 September 2022
Team ID	PNT2022TMIDI3488
Project Name	Project - Signs with smart connectivity for Better road safety
Maximum Marks	4 Marks

Signs with smart connectivity for Better road safety

1. Develop a web application using Node-Red Services

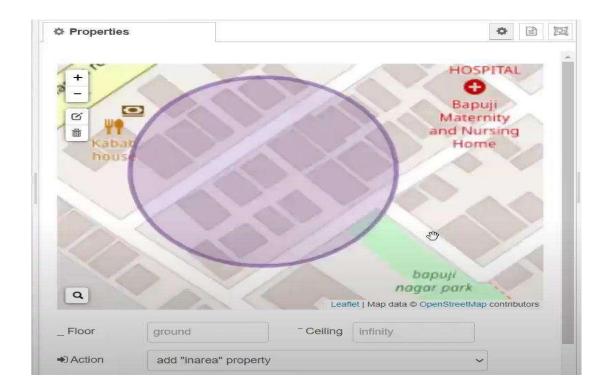
Steps:

Open a Node-RED project



2. Add code to get location in python

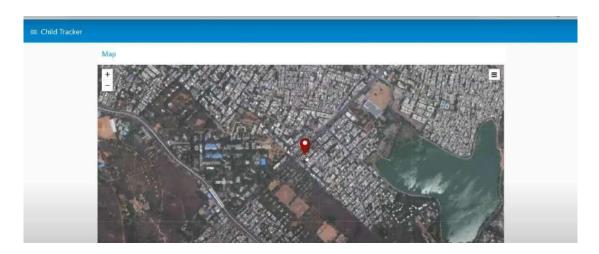
3. Create the GeoFence



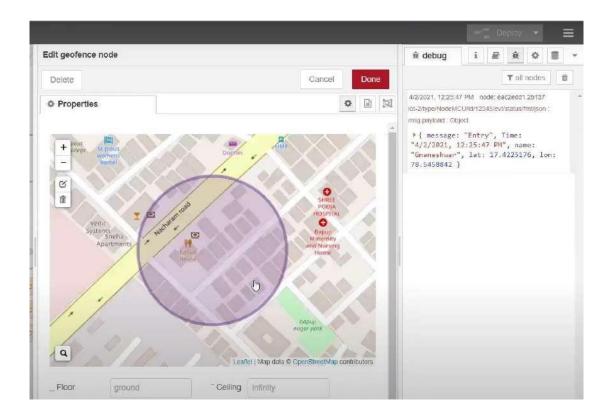
4. Edit the HTTP Request URL

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5. Locate the place



6. Create the geofence node



7. Python script send requests to IBM Cloud

```
Child.py 🔯
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cansole 2/A 
Data published to IBM IoT platfrom:
               1 import json
2 import wiotp.sdk.device
3 import time
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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 plat
                                                 },
"auth": {
    "token": "12345678"
          14 }
15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=Mone)
            16 client.connect()
          18 while True:
19 name= "Smartbridge"
20 #in area Location
          21
22
23
24
25
26
27
28
                                                    #Latitude= 17.4225176
#Longitude= 78.5458842
                                                      #out area tocution
                                                    longitude= 78.5488783
myData={'name': name, 'lat':latitude,'lon':longitude}
client.publishEvent(eventId="status", msgFormat="json"
print("Data published to IBM IoT platfrom: ",myData)
time.sleep(5)
                                                                                                                                                                                                                                                                                                                                                                                                                                           , data=myData, qos=0, onPub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Data published to IBM IoT platfrom: Data published to IBM IoT platfrom:
            34 client.disconnect()
35
36
```

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



Conclusion:

Developed the web application using Node-RED Successfully