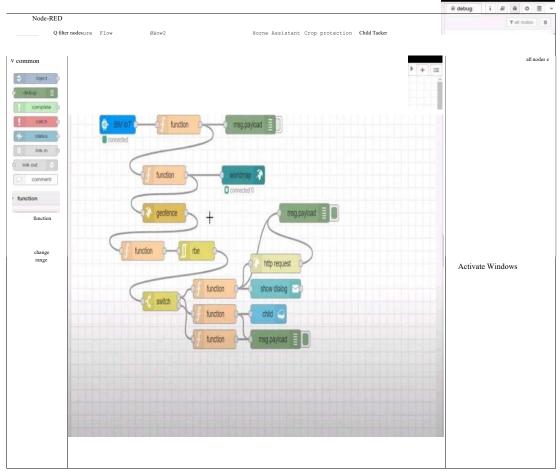
# **Develop The Web Application Using Node-RED**

Team ID	PNT2022TMID24203
Project Name	IoT Based Safety Gadget for Child
	Safety Monitoring & Notification

1. To Develop the web application using Node-RED

## Steps:

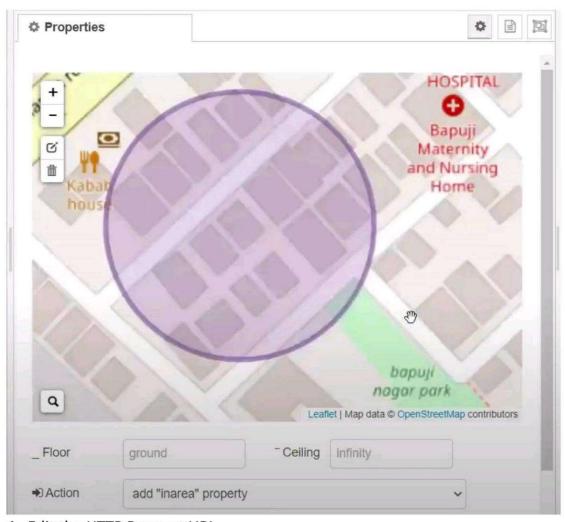
1. Open a Node-RED project



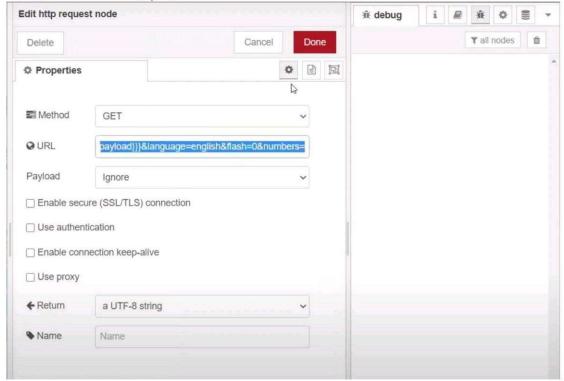
2. Add code to get child location in python

```
import j son import wiotp. sdk. device
import time
myconfig = {
   config = {
  "identity": {
    "orgld" . . S fray "
    " typeld" . • "NodeMCV" ,
    "deviceld": "12345"
     en": "12345678"
          "token
client = wiotp. sdk.device.
(config=myConfig, client. connect ()
                                                        DeviceClient
Thi le True:
        name= "Smartbridge"
              area location
         latitude= 17 .4
longitude= 78.5458842
                                       .4225176
                                                                            logHandler s=None )
          *out area location
         #latitude=
#longitude= 78.5488783 myData={ name' : name
: latitude, Ion : longitude} client. publishE
          (eventld=" status % msgFormat= print ("
published to IBM 10T platfrom: %myData) t
sleep (5)
client. disconnect ( )
                                                                              son" data=myData, gos=0 ,onPublish=None)
```

#### 3. Create the GeoFence



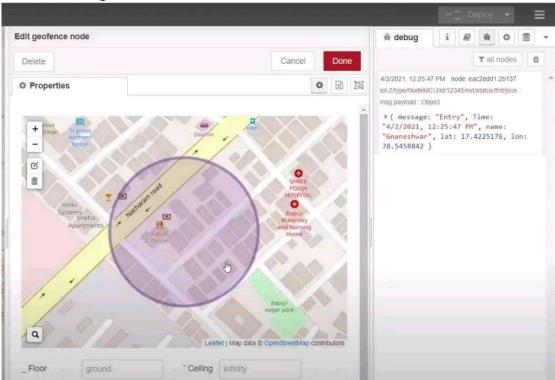
4. Edit the HTTP Request URL



#### 5. Locate the child



6. Create the geofence node





```
A I import j son 2 import wiotp.
                                                                                              Data pu Is e o B o p at rom: Data published to IBM IOT platfrom:
   sdk device
  3 import time
                                                                                              Data published to IBM 10T
                                                                                              platfrom:
  5
            myConfig = {
                                                                                              Data published to IBM IOT
            "identity": {
  6
                                                                                              platfrom:
            "orgld": "hj5fmy%
  7
                                                                                              Data published to IBM 10T
  8
            "typeld": "NodeMCU",
                                                                                              platfrom:
  9
            "deviceld " : "12345"
                                                                                              Data published to IBM 10T
 10
                                                                                              platfrom:
 11
            "auth": {
                                                                                              Data published to IBM 10T
                      "12345678"
 12
            "token
                                                                                              platfrom:
 1.3
                                                                                              Data published to IBM 10T
 14
                                                                                              platfrom:
          client = wiotp.sdk.device.DeviceClient(config=myConfig,
 logHand1ers=None) 16 client. connect()
                                                                                              Data published to IBM 10T
                                                                                              platfrom:
 18
        while True:
                                                                                              Data published to IBM 10T
        name--- "Smartbridge"
 19
                                                                                              platfrom:
 20
        #in area location
                                                                                              Data published to IBM 10T
 21
                                                                                              platfrom:
           *latitude-
                                                                                              Data published to IBM 10T
 17.4225176 23
          ongitude- 78.
                                                                                              platfrom:
                                                                                              Data published to IBM 10T
 24 25 #out area
                                                                                              platfrom:
 location
                                                                                              Data published to IBM 10T
                                                                                              platfrom:
           latitude= 17.4219272
 27
                                                                                              Data published to IBM 10T
 28
          longitude= 78.5488783
           myData={ 'name' : name, 'lat' : latitude, 'Ion' : longitude}
 29
                                                                                              platfrom:
          client. publishEvent(eventId="status", msgFormat="json", data=myData, qos=ø, print("Data published to IBM 10T platfrom: ",myData) 32 tim
 30
                                                                                              Data published to IBM IOT
 31
                                                                                              platfrom:
 sleep(5)
                                                                                              Data published to IBM IOT
 33
                                                                                              platfrom:
 34 client. disconnect()
                                                                                              Data published to IBM IOT
                                                                                              platfrom:
                                                                                              Data published to IBM 10T
                                                                                              platfrom:
                                                                                              Data published to IBM 10T
                                                                                              platfrom:
```

Data published to IBM 10T platfrom: Data published to IBM 10T platfrom:

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