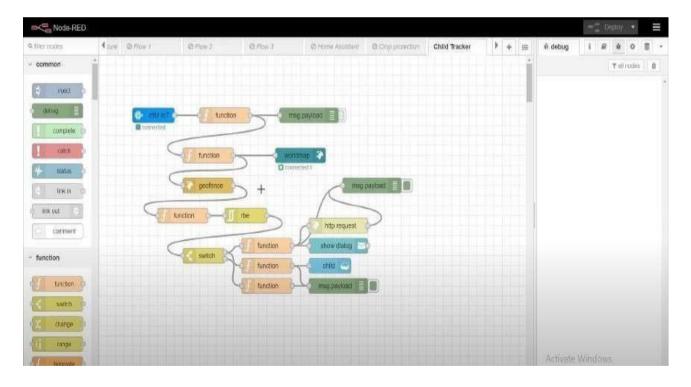
DEVELOP A WEB APPLICATION USING NODE-RED SERVICE

Date	06 November 2022
Team ID	PNT2022TMID15234
Project Name	Industry-Specific Intelligent Fire Management System
Maximum Marks	8 Marks

1. To Develop the web application using Node-RED

Steps:

• Open a Node-RED project



Add code to get child location in python

```
Node red app.py - C/Users/ELCOT/AppData/Local/Programs/Python/Python37/Node red app.py (3.7.0)

File Edit Format Run Options Window Help

Import joon
import whotp.adk.device
import time

myConfig = {
    "identity":{
        "corgid": "88653s",
        "typeid": "iot_device",
    "deviceid": "wckwi_us"
    }
} "auth": {
        "rocken":")1(u!YYO)NmKr9sk(k"
    }
} client = wiotp.sdk.device.DeviceClient(config-myConfig, logHandlers=None)
client.connect()

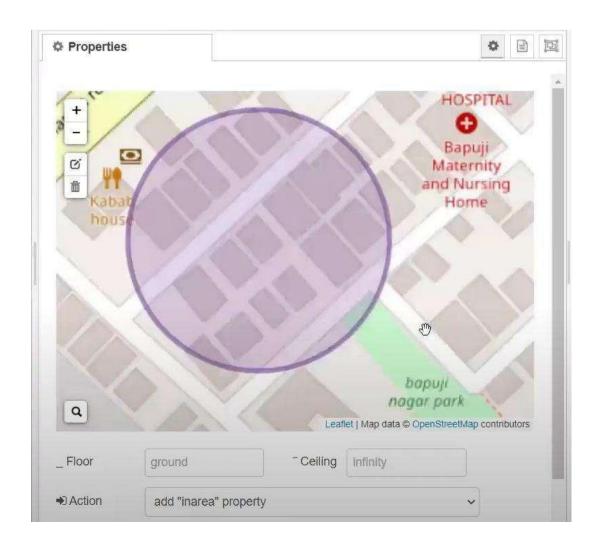
While True:
    name="Smartbridge"
    #in area location
    latitude 17.4225176
    longitude 78.5458842

#out area location
ilatitude= 17.4219272
#longitude 78.54588783

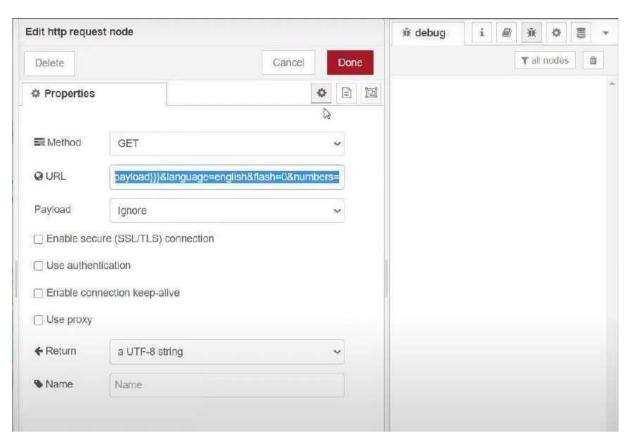
myData={Iname*: name, 'lat': latitude, 'len': longitude}
    client.publishEvent(eventide"status", msgFormat="json", data-myData, qos-0, onPublish=None}
    print("Data published to IBM IOT plasfrom: ", myData)

blient.disconnect()
```

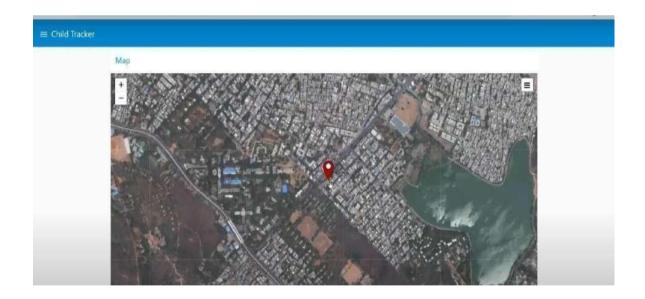
• Create the Geofence



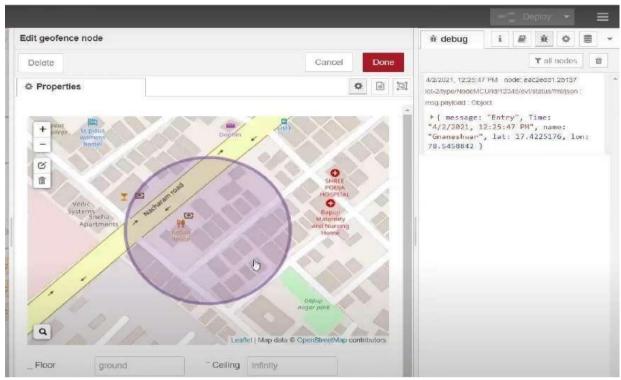
• Edit the HTTP Request URL



Locate the child



• Create the geofence node



· Python script send requests to IBM Cloud

```
🔒 Node red app.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python37/Node red app.py (3.7.0)
                                                                                                               IPython console
File Edit Format Run Options Window Help
                                                                                                                Console 2/A 🖾
                                                                                                                Data published to IBM IoT platfrom:
import wiotp.sdk.device
                                                                                                                Data published to IBM IoT platfrom:
                                                                                                                Data published to IBM IoT platfrom:
                                                                                                                Data published to IBM IoT platfrom:
mvConfig = {
     ming = {
  "identity":{
    "orgId": "88653s",
    "typeid": "iot_device",
    "deviceId": "wokwi_us"
                                                                                                                Data published to IBM IoT platfrom:
                                                                                                                Data published to IBM IoT platfrom:
     "auth": {
          "token":")l(u!YYO)NmKr9sk(k"
                                                                                                                Data published to IBM IoT platfrom:
                                                                                                                Data published to IBM loT platfrom:
                                                                                                                Data published to IBM IoT platfrom:
client = wiotp.sdk.device.DeviceClient(config-myConfig, logHandlers=None)
                                                                                                                Data published to IBM IoT platfrom:
client.connect()
                                                                                                                Data published to IBM IoT platfrom:
While True:
                                                                                                                Data published to IBM IoT platfrom:
    name="Smartbridge"
                                                                                                                Data published to IBM IoT platfrom:
                                                                                                                Data published to IBM IoT platfrom:
                                                                                                                Data published to IBM IoT platfrom:
    latitude 17.4225176
longitude 78.5458842
                                                                                                                Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
    #out area location
#latitude= 17.4219272
#longitude 78-5488783
                                                                                                                Data published to IBM IoT platfrom:
                                                                                                                Data published to IBM IoT platfrom:
                                                                                                                Data published to IBM IoT platfrom:
    myData={'name': name, 'lat': latitude, 'len': longitude} client.publishEvent(eventid="status", msgFormat="json", data-myData, qos-0, onFublish=None} print("Data published to IBM IOT platfrom: ", myData) time.sleep (5)
                                                                                                                Data published to IBM IoT platfrom:
                                                                                                                Data published to IBM IoT platfrom:
    client.disconnect()
                                                                                                                Data published to IBM IoT platfrom:
                                                                                                                Data published to IBM IoT platfrom:
```

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



Conclusion:

Development of the web application using Node-RED Successfully.