

DEVELOP A WEB APPLICATION USING NODE-RED SERVICE

Develop the Web Application using Node-RED Service

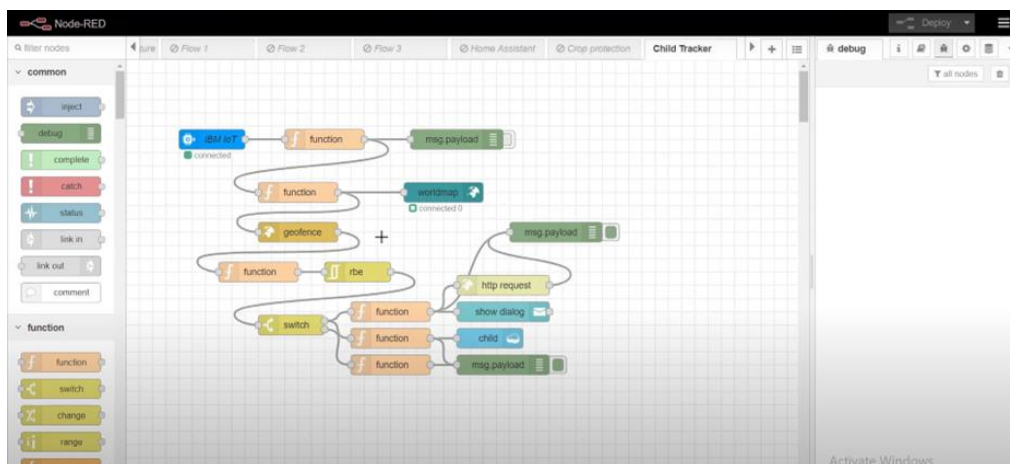
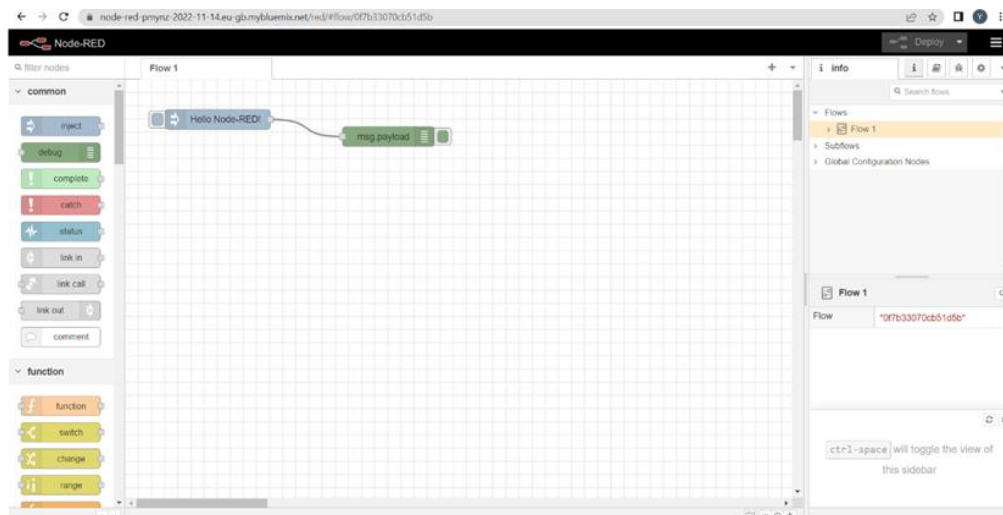
Team ID	PNT2022TMID14424
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification

Aim :

To develop the web application using Node-RED Service.

Steps :

1.Open a Node-RED project.



2. Added code to get child location in python.

```
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

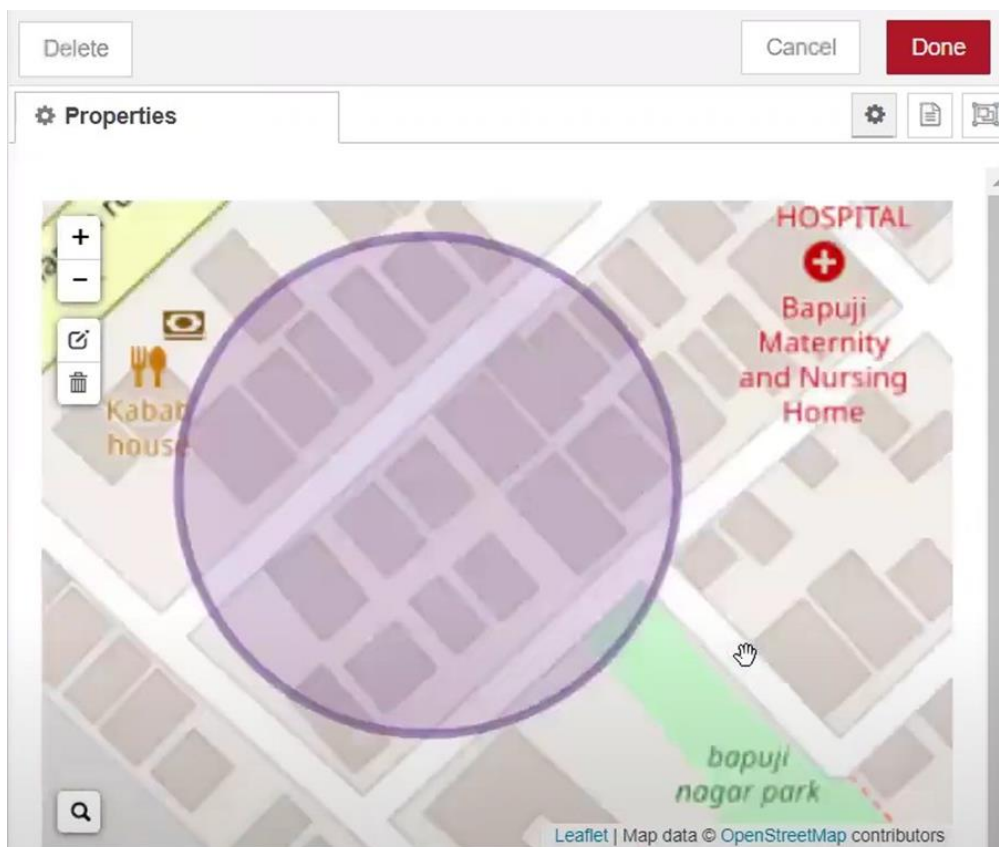
    latitude= 17.4225176
    longitude= 78.5458842

    #out area location

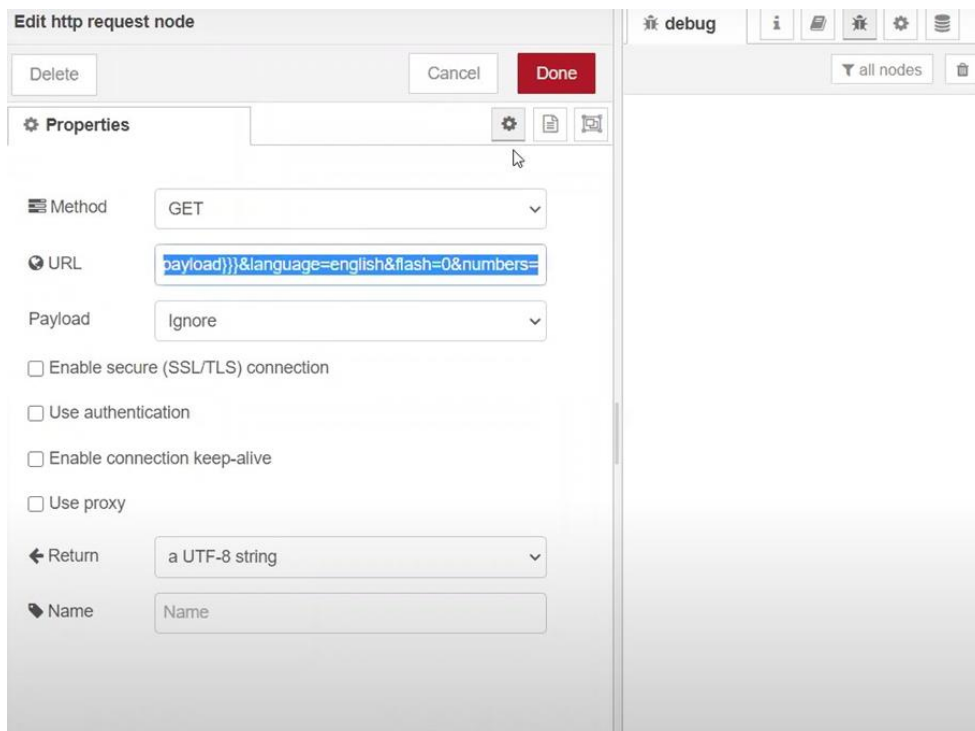
    #latitude= 17.4219272
    #longitude= 78.5488783
    myData={'name': name, 'lat':latitude,'lon':longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ",myData)
    time.sleep(5)

client.disconnect()
```

3. Creating the GeoFence.



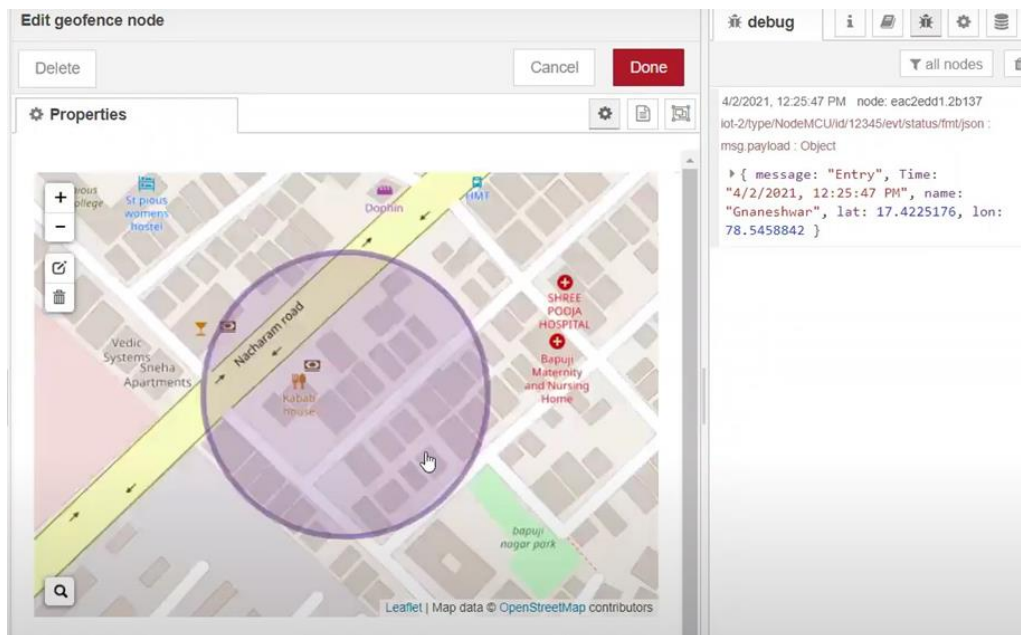
4. Editing the HTTP Request URL.



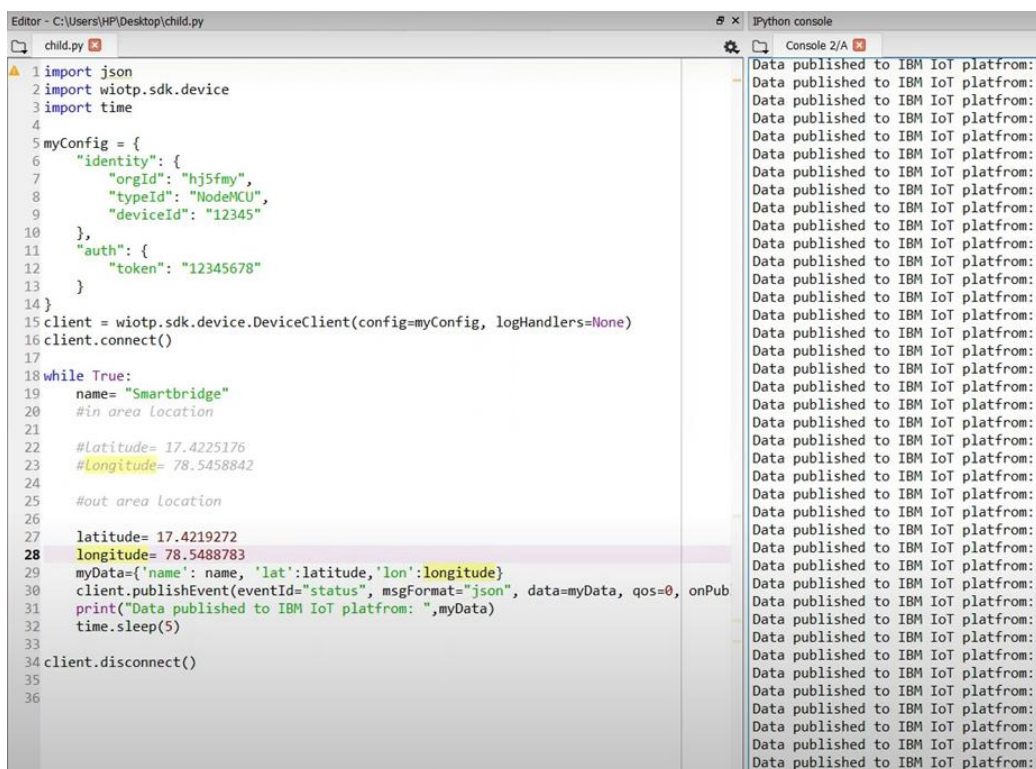
5. Locate the child.



6. Created the geofence node.



7. Python script sending requests to IBM Cloud.



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

Result :

A Web Application using Node-RED Service was developed successfully.