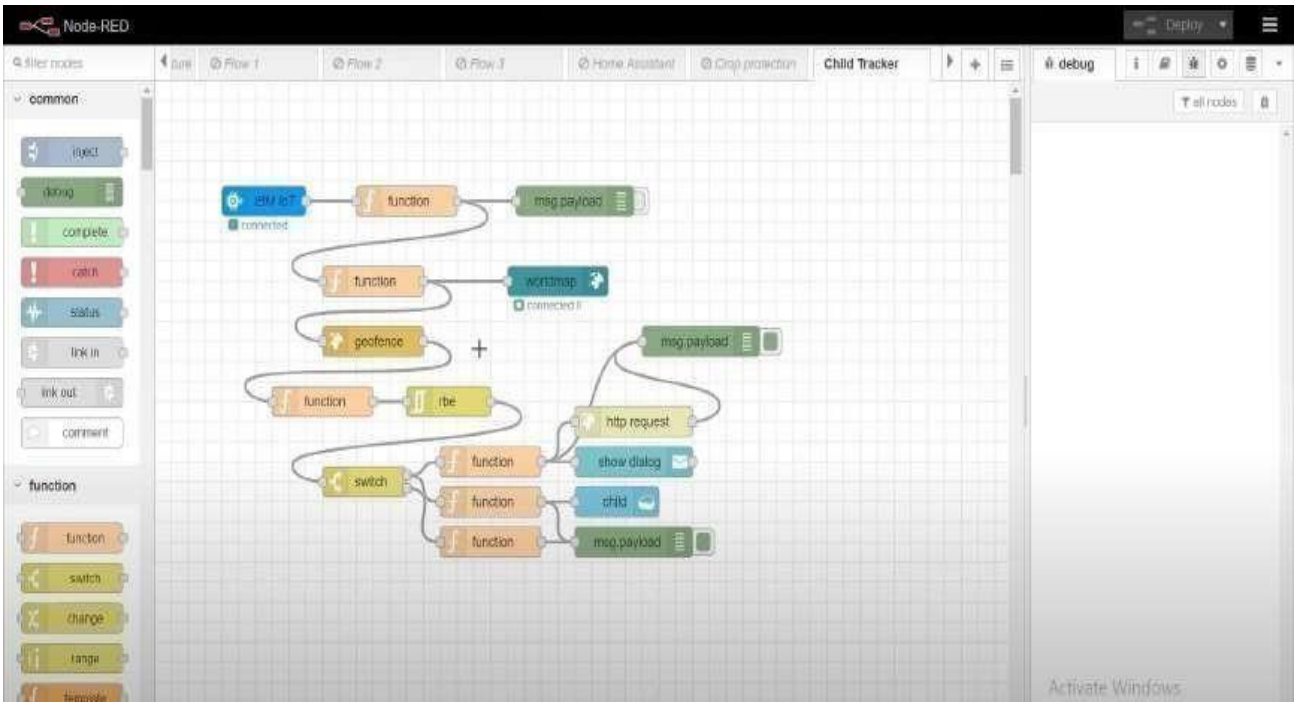
DEVELOP A WEB APPLICATION USING NODE-RED SERVICE

Date	14 November 2022
Team ID	PNT2022TMID22775
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

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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 json
import wiotp.sdk.device
import time

myConfig = {
    "identity":{
        "orgId": "88653s",
        "typeid": "iot_device",
        "deviceId": "wokwi_us"
    }
    "auth": {
        "token":")l(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

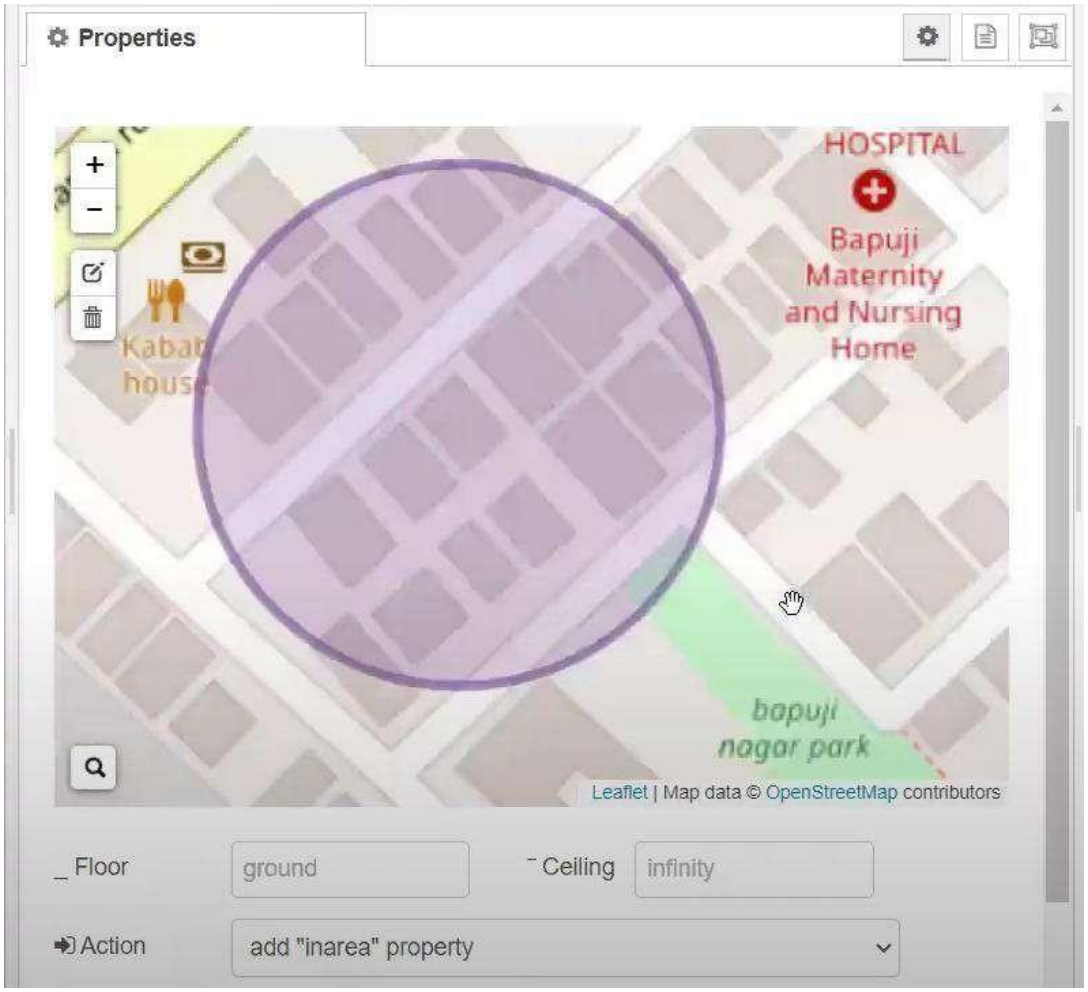
    #out area location
    #latitude= 17.4219272
    #longitude 78-5488783

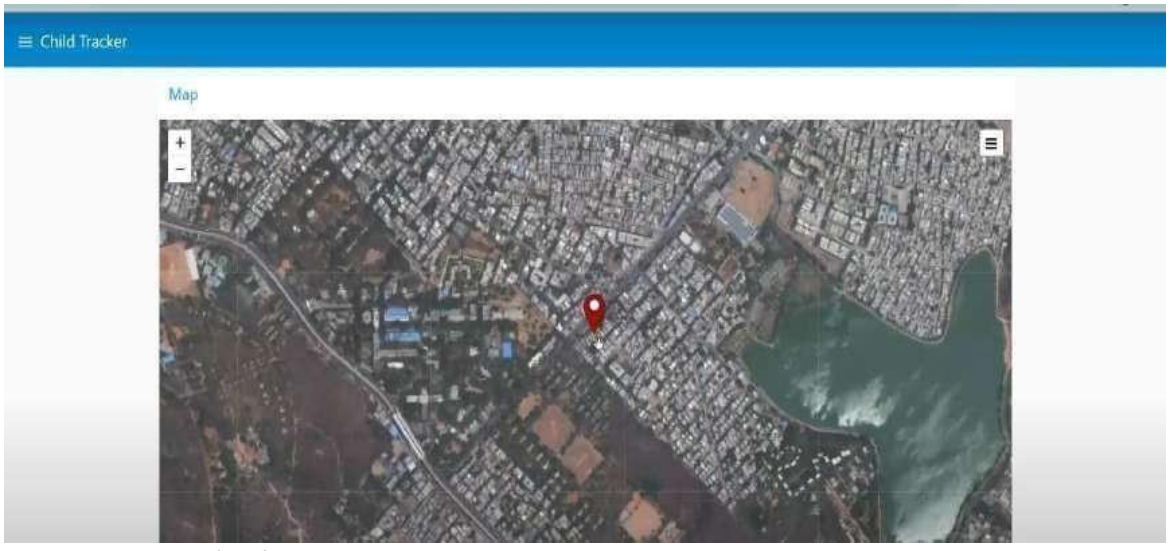
    myData={'name': name, 'lat': latitude, 'len': longitude}
    client.publishEvent(eventid="status", msgFormat="json", data=myData, qos=0, onPublish=None}
    print("Data published to IBM IOT platfrom: ", myData)
    time.sleep (5)

    client.disconnect()
```

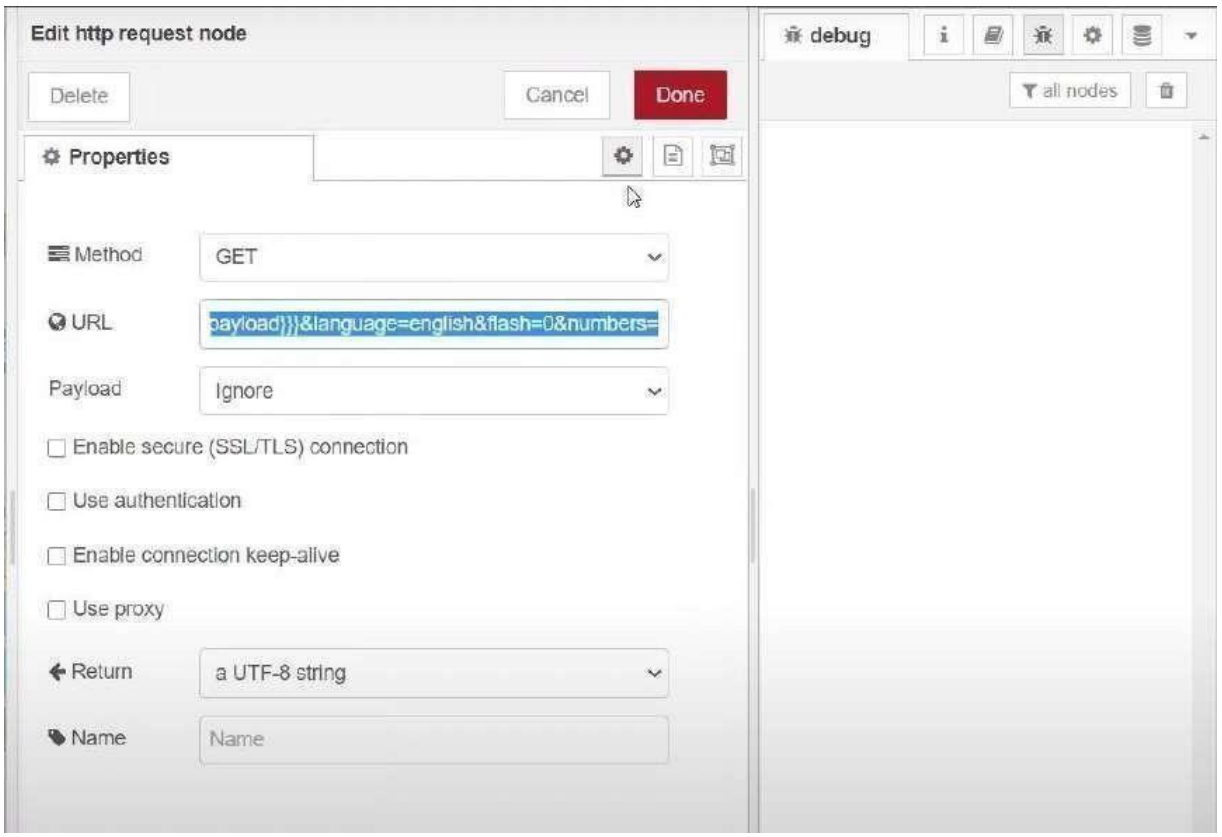
- Create the Geofence

-



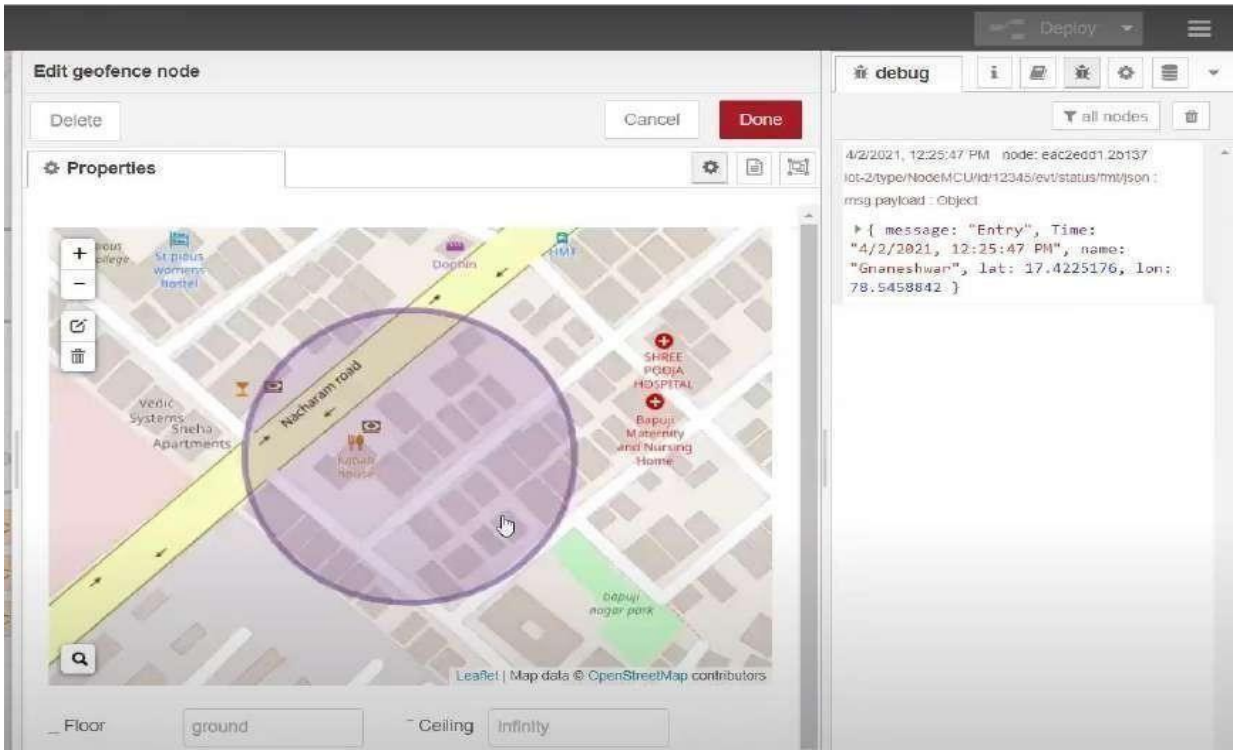


Edit the HTTP Request URL



- Locate the child

Create the geofence node



- Python script send requests to IBM Cloud

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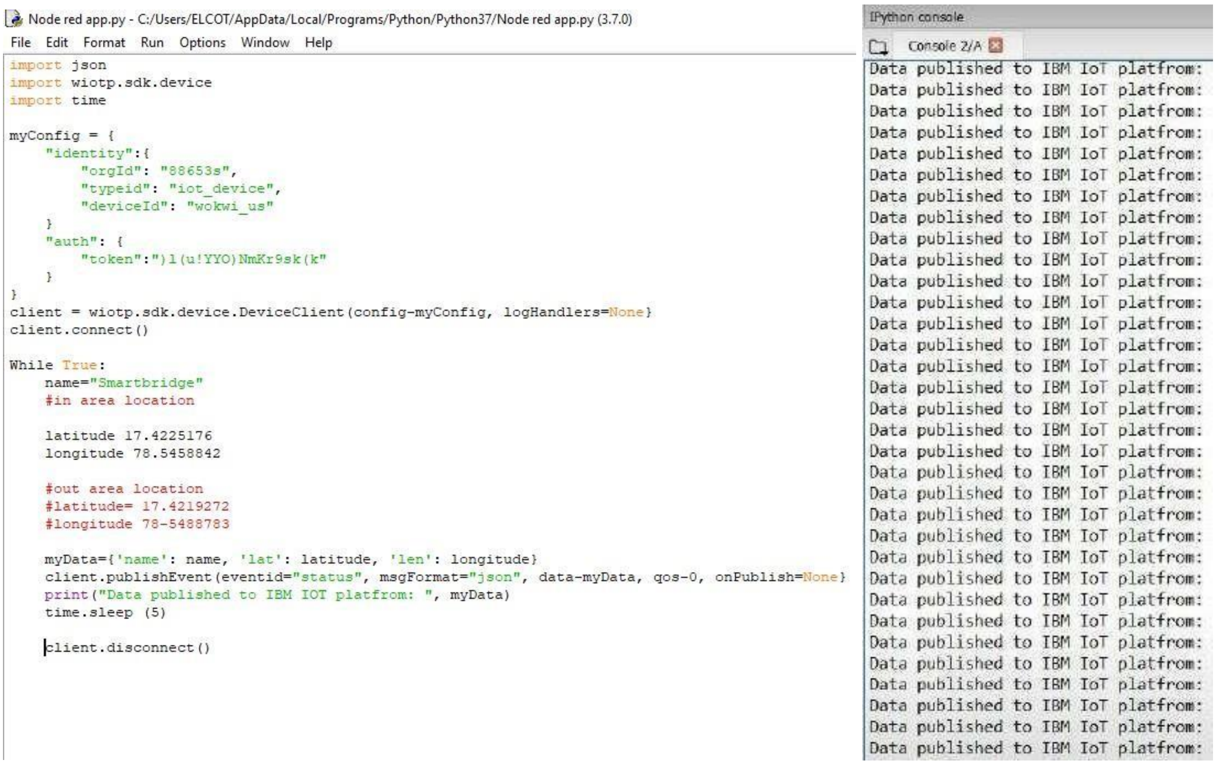

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    print("Data published to IBM IOT platfrom: ", myData)
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IPython console

Console 2/A

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Data published to IBM IoT platfrom:
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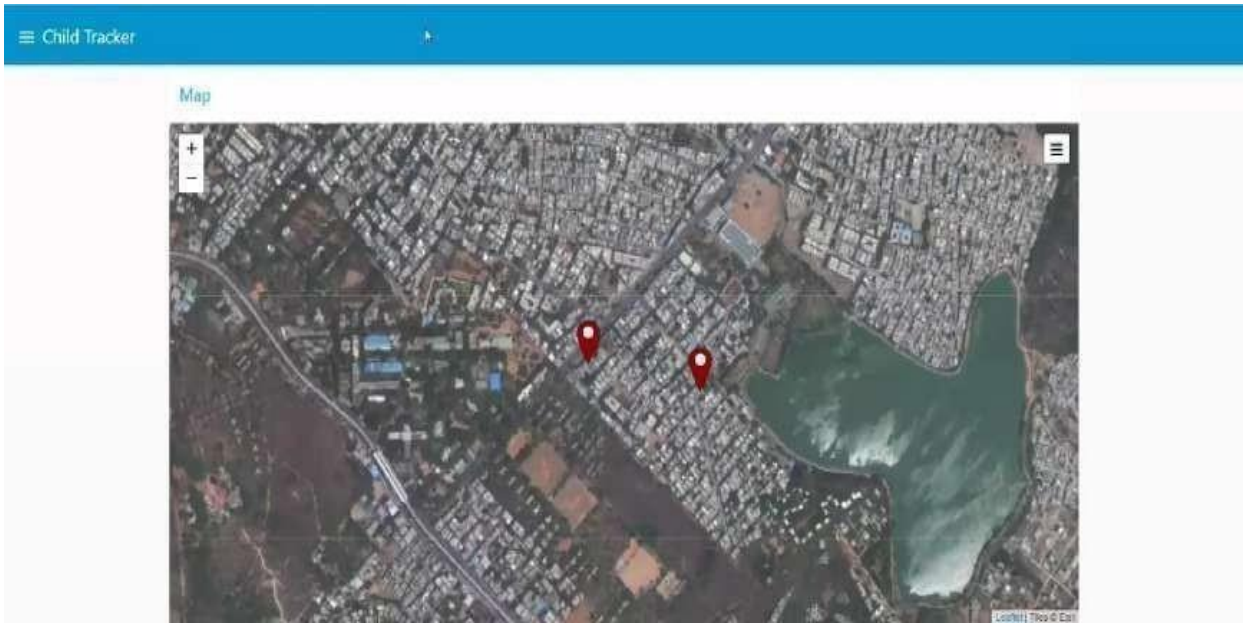
```

- 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.