

DEVELOP A WEB APPLICATION USING NODE-RED SERVICE

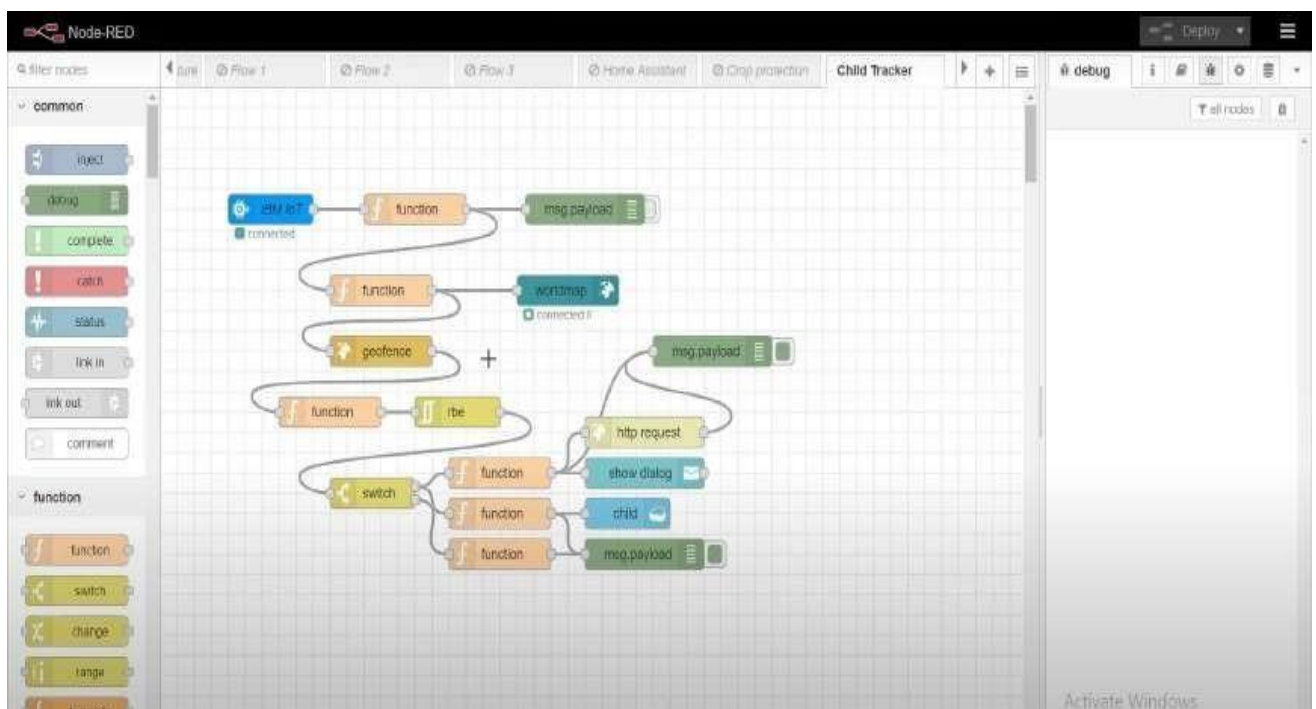
DEVELOP THE WEB APPLICATION USING NODE-RED SERVICE

Date	06 November 2022
Team ID	PNT2022TMID36617
Project Name	Industry-specific intelligent fire management system
Maximum Marks	8 Marks

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 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

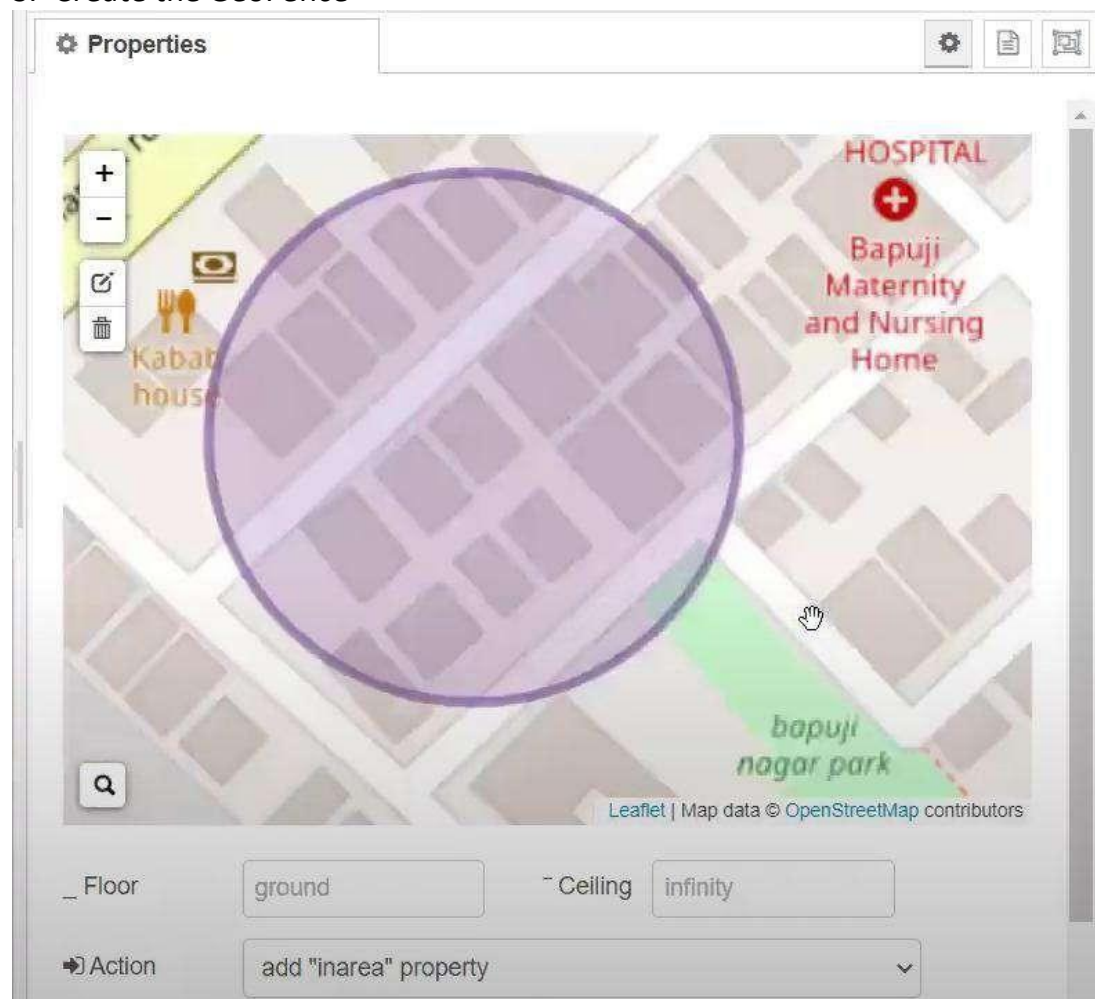
    latitude= 17.4225176
    longitude= 78.5458842

    #out area location

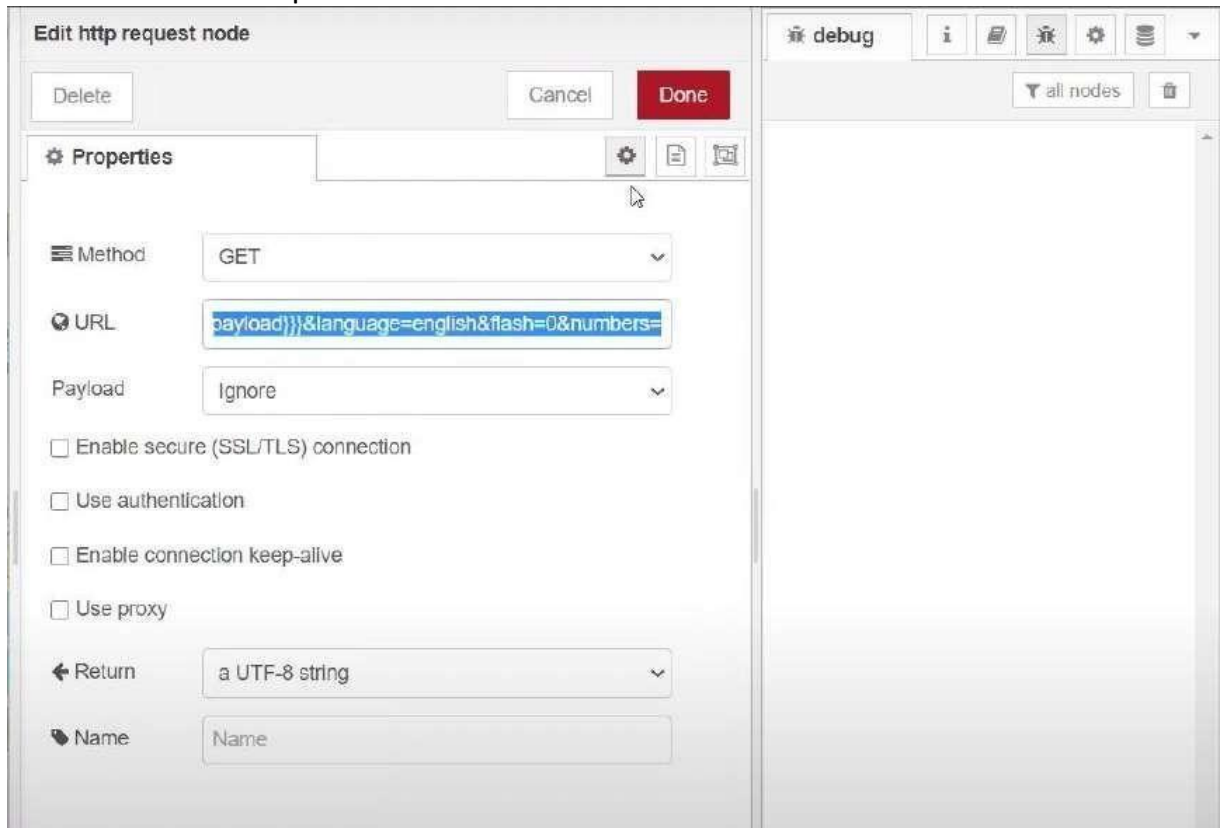
    #latitude= 17.4219272
    #longitude= 78.5488783
    myData={'name': name, 'lat':latitude,'lon':longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ",myData)
    time.sleep(5)

client.disconnect()
```

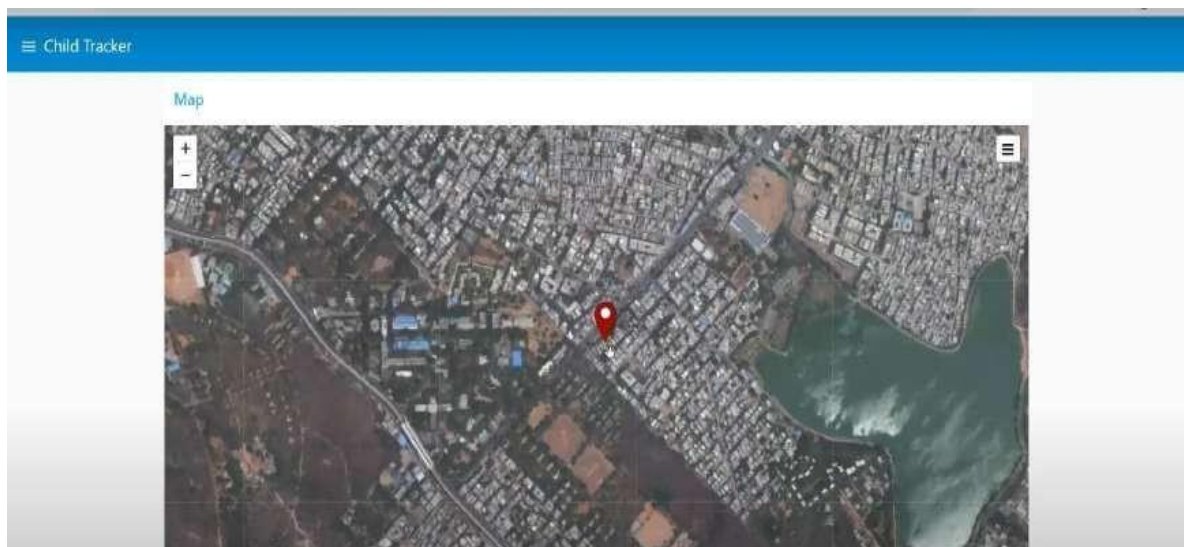
3. Create the GeoFence



4. Edit the HTTP Request URL



5. Locate the child



Edit geofence node

Delete
Cancel
Done

⚙️ Properties

⚙️ 📄 🔍

Leaflet | Map data © OpenStreetMap contributors

Floor
ground
Ceiling
Infinity

🐞 debug
ℹ️
📄
🏠
⚙️
🗑️
▼

🔍 all nodes
🗑️

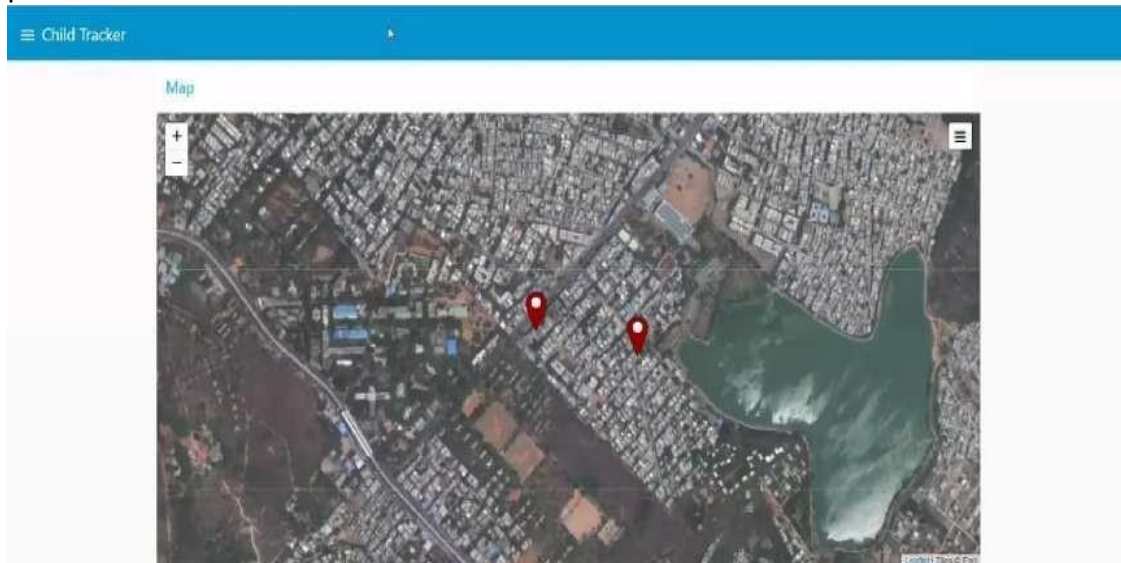
```

4/2/2021, 12:25:47 PM   node: eac2edd1 2b137
iot-2/type/NodeMCUId/12345/event/status/rm/json :
msg payload : Object

▶ { message: "Entry", Time:
    "4/2/2021, 12:25:47 PM", name:
    "Gnateshwar", lat: 17.4225176, lon:
    78.5458842 }
        
```

```
Editor - C:\Users\HP\Desktop\child.py      IPython console
child.py
1 import json
2 import wiotp.sdk.device
3 import time
4
5 myConfig = {
6     "identity": {
7         "orgId": "hj5fmy",
8         "typeId": "NodeMCU",
9         "deviceId": "12345"
10    },
11    "auth": {
12        "token": "12345678"
13    }
14 }
15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
16 client.connect()
17
18 while True:
19     name = "Smartbridge"
20     #in area location
21
22     #latitude= 17.4225176
23     #longitude= 78.5458842
24
25     #out area location
26
27     latitude= 17.4219272
28     longitude= 78.5488783
29     myData={'name': name, 'lat':latitude, 'lon':longitude}
30     client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPub
31     print("Data published to IBM IoT platform: ",myData)
32     time.sleep(5)
33
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