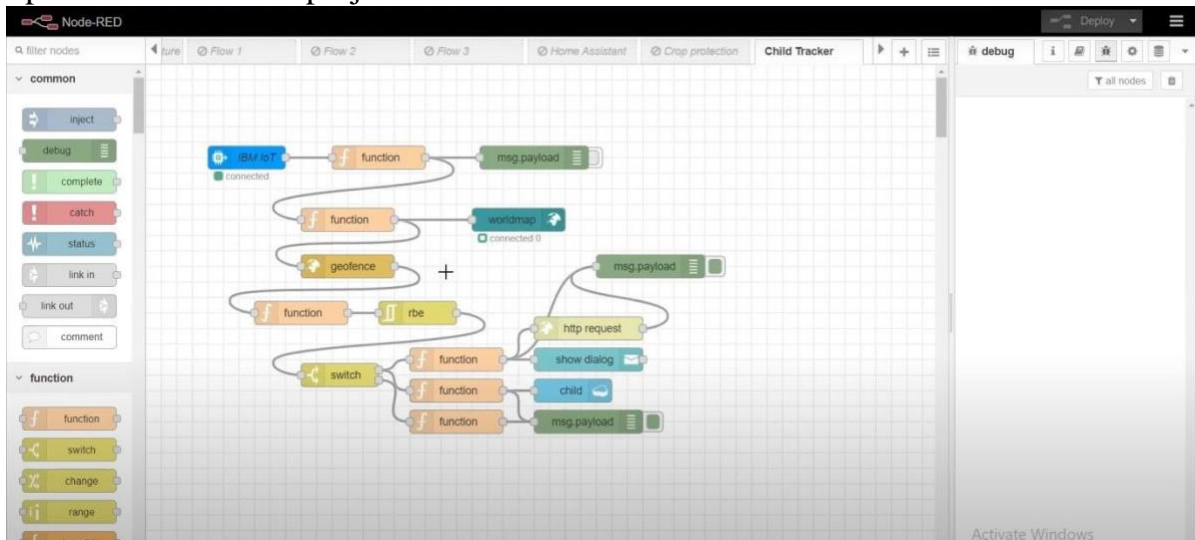


## Develop A Web Application Using Node-RED

Name	Apsana A
Team I'd	PNT2022TMID45857
ProjectName	Project- IoTBasedSafetyGadgetForChild SafetyMonitoring& Notification
Maximum Marks	2 Marks

Steps Followed:

- Opened a Node-RED project



- 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

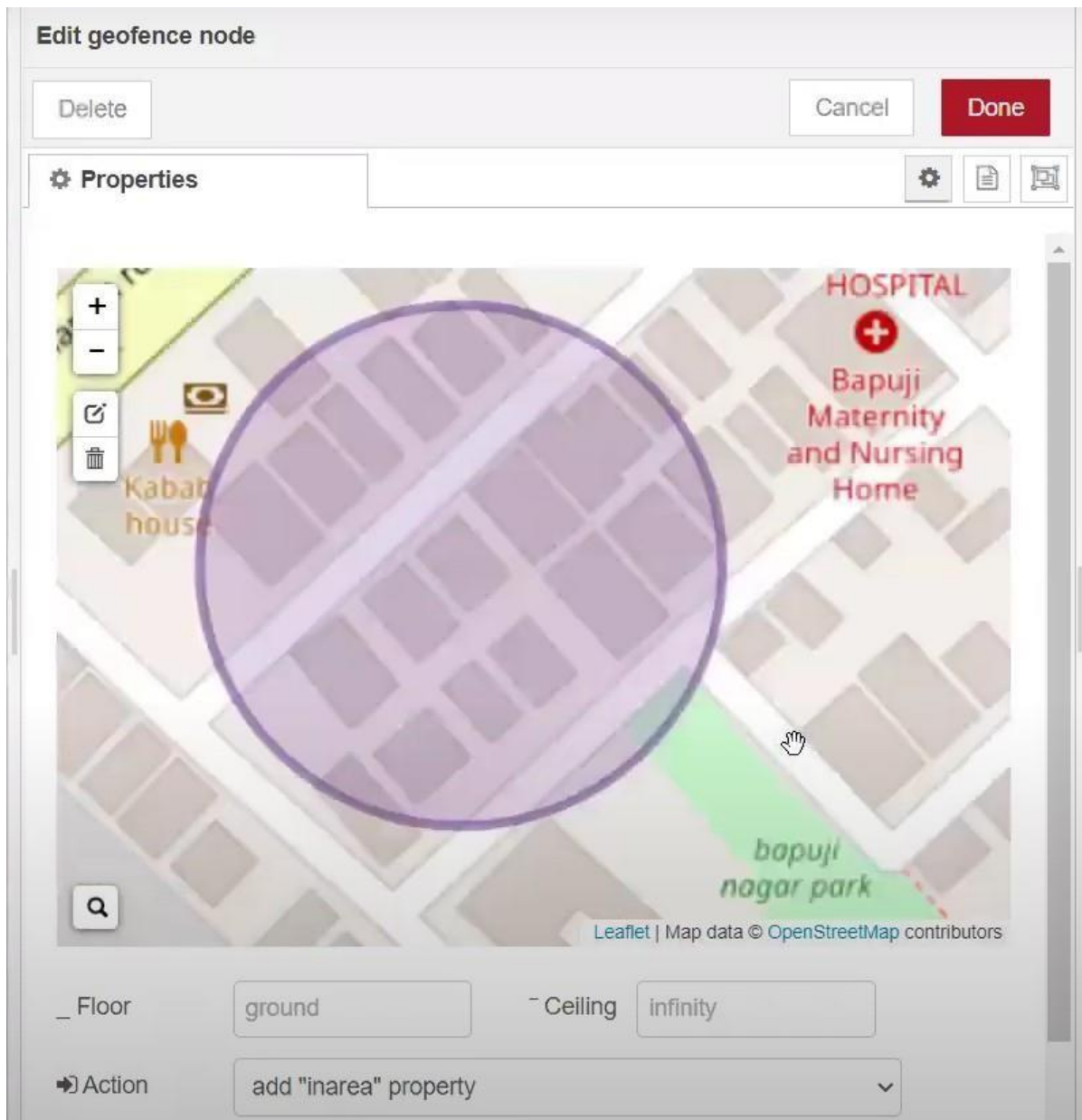
    #out area location

    #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 platfrom: ",myData)
    time.sleep(5)

client.disconnect()
```

- the

Created Geo Fence



- the

## Editing HTTP Request URL

• Edit http request node

Delete Cancel Done

Properties

Method GET

URL payload}}}}&language=english&flash=0&numbers=

Payload Ignore

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

☐ Use proxy

Return a UTF-8 string

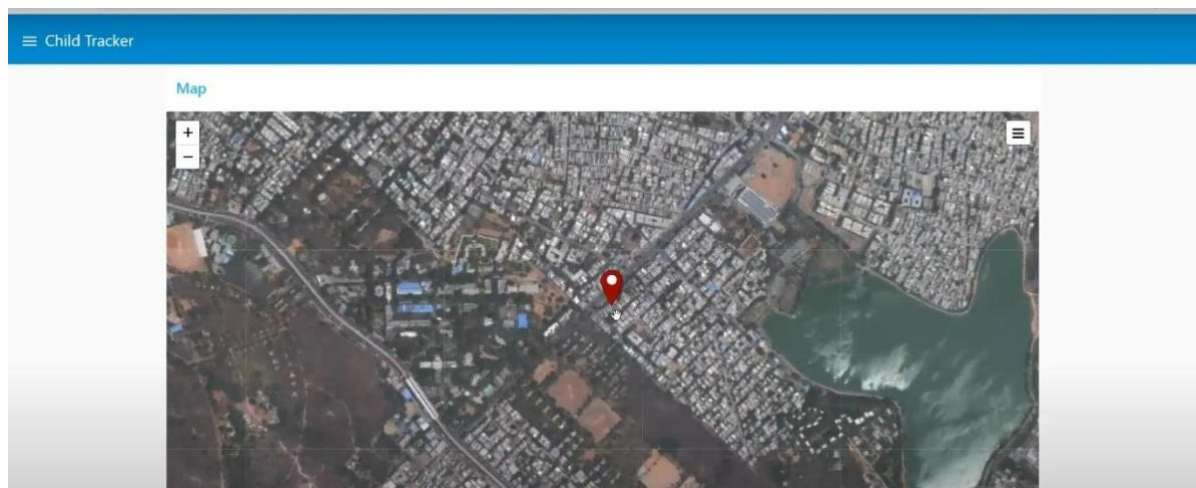
Name Name

debug

all nodes

Activate Windows

- Located the child



Created geo fence node

- Deploy
☰

### Edit geofence node

Delete
Cancel
Done

---

#### Properties

⚙️
📄
🗺️

Leaflet | Map data © OpenStreetMap contributors

\_ Floor
 

ground

- Ceiling
 

infinity

**debug**
🔍 all nodes
🗑️

```

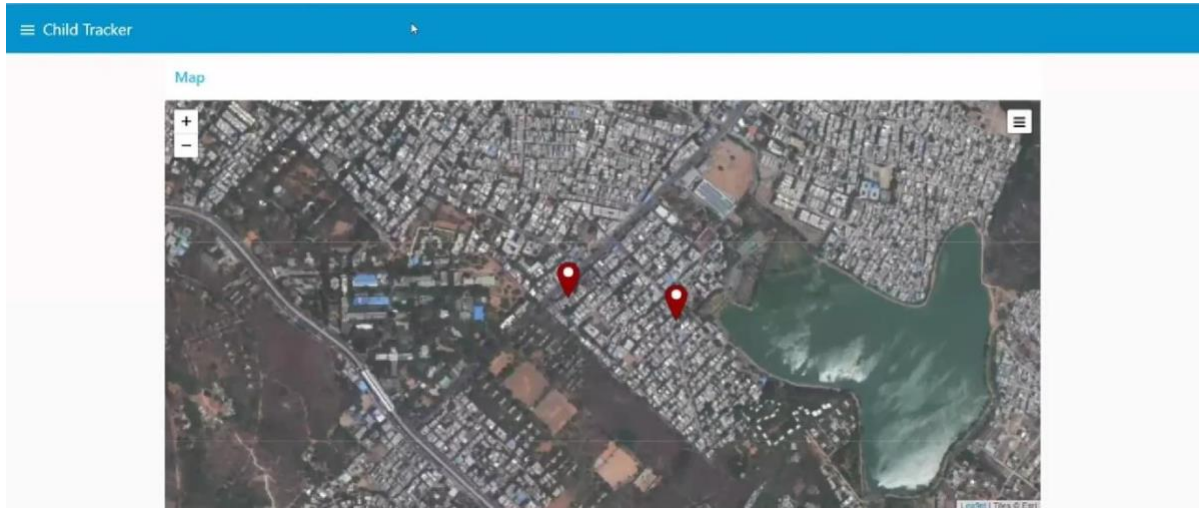
4/2/2021, 12:25:47 PM   node: eac2edd1.2b137
iot-2/type/NodeMCU/id/12345/evt/status/fmt/json :
msg.payload : Object

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

- ```
Editor - C:\Users\HP\Desktop\child.py  
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
```

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





**Result:**

Successfully developed a web application using Node-RED.