

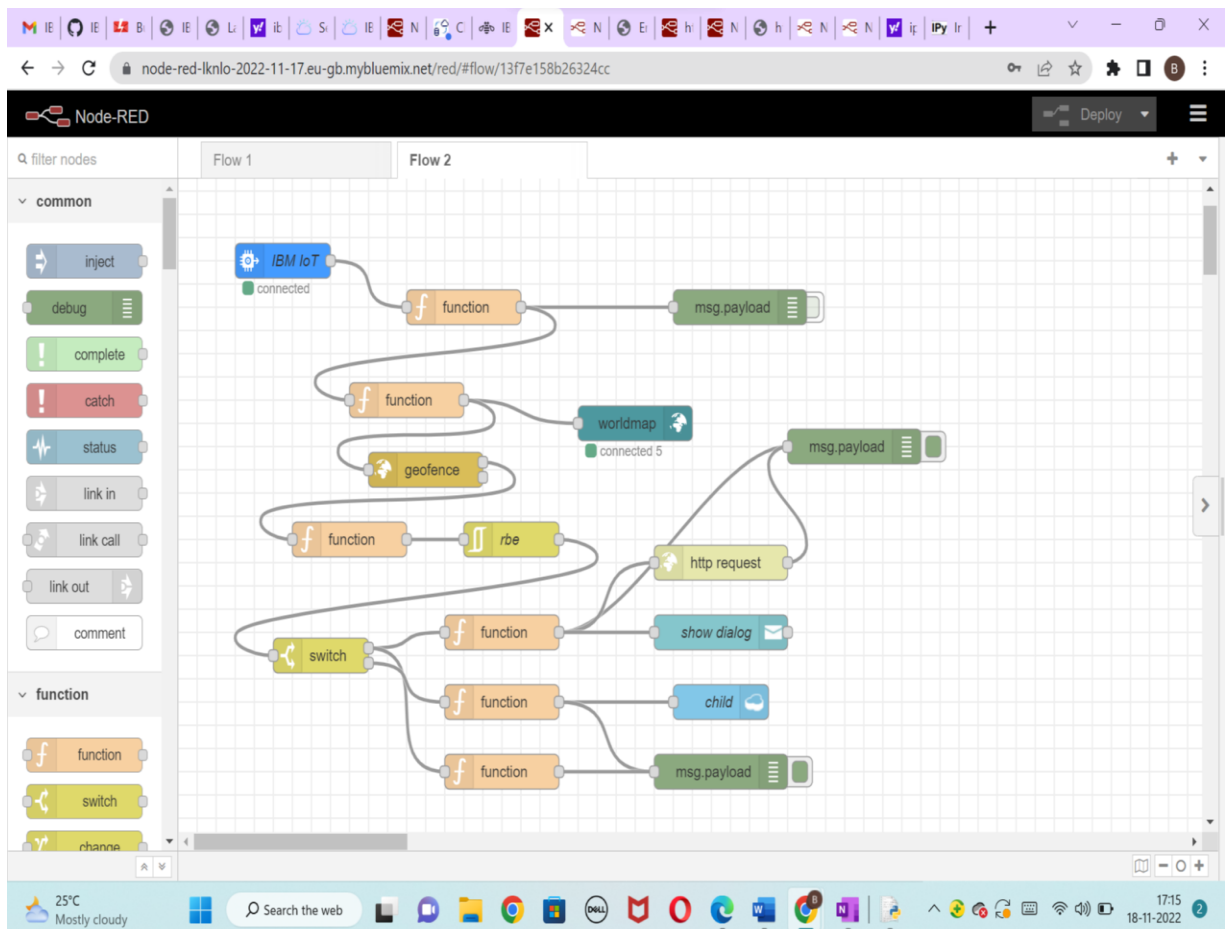
Develop The Web Application Using Node-RED

Date	10 November 2022
Team ID	PNT2022TMID26475
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification

Aim: Develop the web application using Node-RED

Steps to be Followed:

- Opened a Node-RED project



- Added code to get child location in python

```
child.py - C:\Users\thiya\AppData\Local\Programs\Python\Python38-32\child.py (3.8.0)
File Edit Format Run Options Window Help

import json
import wiotp.sdk.device
import time

myConfig = {
    "identify": {
        "longid": "hj5fmy",
        "typeID": "NodeMCU",
        "deviceID": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}

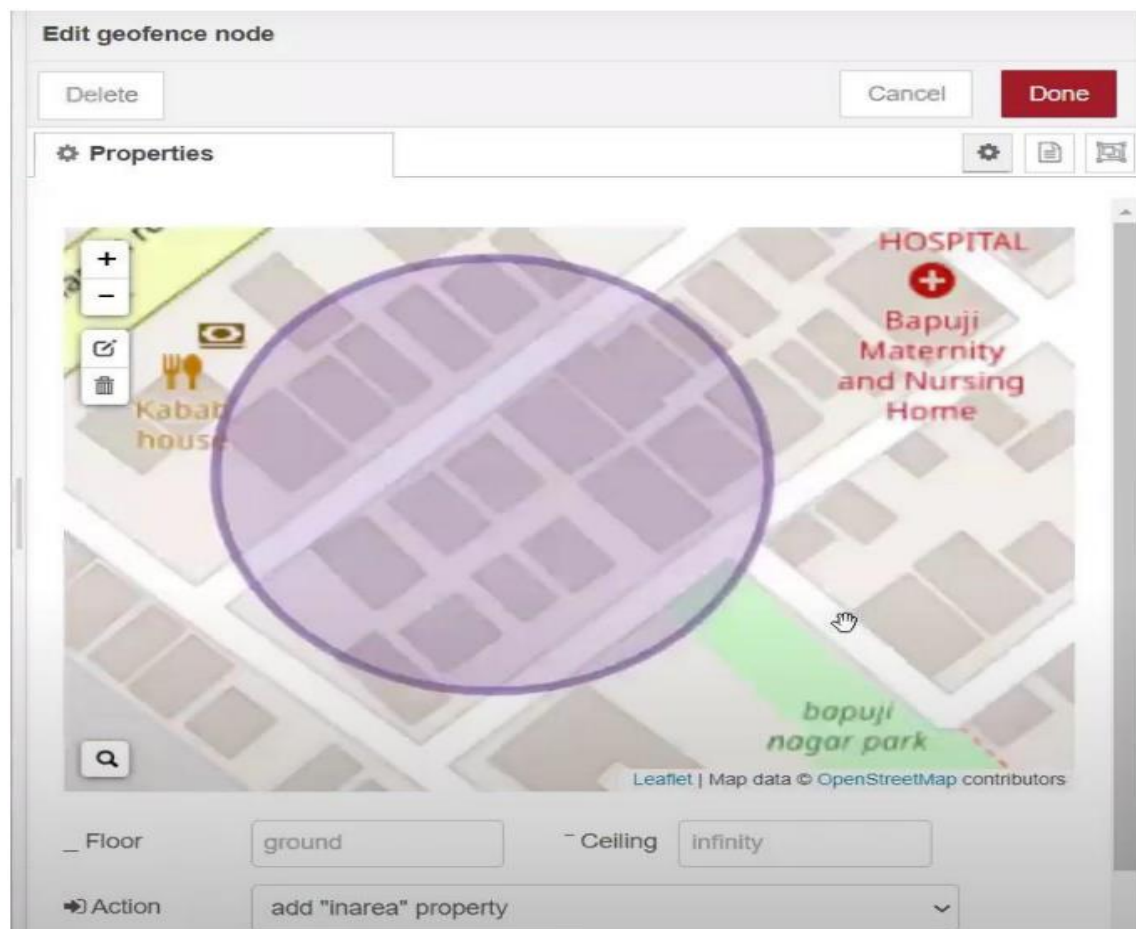
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    name= "Smartbridge"
    #in area Location

    latitude= 17.4225176
    longitude= 78.5458842

    #out area Location
    #latitude= 17.4225176
    #longitude= 78.5458842
    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()
```

- Created the Geo Fence



- Editing the HTTP Request URL

✖ debug

ⓘ

📄

⚙

⚙

▼ all nodes ▼

🗑 all ▼

⚙ Properties

⚙

📄

🖨

☰ Method

GET ▼

🌐 URL

https://www.fast2sms.com/dev/bulkV2?authorizati

📄 Payload

Ignore ▼

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

☐ Use proxy

☐ Only send non-2xx responses to Catch node

⬅ Return

a UTF-8 string ▼

🔑 Name

Name

☐ Enabled

- Python script sending requests to IBM Cloud

```
Editor - C:\Users\jpm\Desktop\child.py
child.py
1 import json
2 import wiotp.sdk.device
3 import time
4
5 myConfig = {
6     "identity": {
7         "orgId": "hj5fay",
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     #Pin area location
21
22     #latitude= 17.4225370
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 the web application using Node-RED