

# WEB APPLICATION USING NODE RED

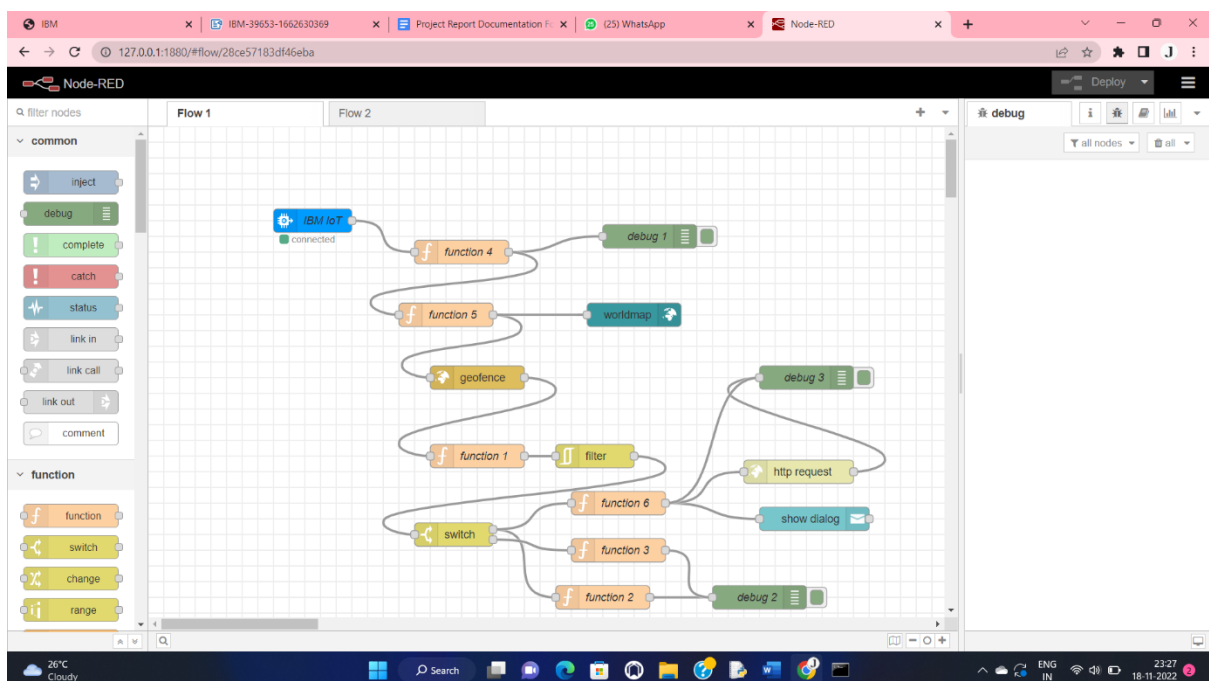
TEAM ID	PNT2022TMID34911
PROJECT ID	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

**AIM:**

To develop the web application using NODE Red.

### STEPS FOLLOWED:

Open the node red and make the connections according to the requirement.



Add a python script through the IBM IOT platform and connect it to node red.

```
tracking.py - C:\Users\A. Jemmy Daphne\tracking.py (3,110)
File Edit Format Run Options Window Help

import time
import sys
import ibmiotf
import ibmiotf.device
import random

organisation = "oz5lix"
deviceType = "jen_01"
deviceId = "12345"
authMethod = "token"
authToken = "Fz1p0ZC6sm2!LF!N20"

def myCommandCallback(cmd):
    print("Command recieved: %s" % cmd.data['command'])
    print(cmd)

try:
    deviceOptions = {"org": organisation, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken}
    deviceCli=ibmiotf.device.Client(deviceOptions)

except Exception as e:
    print("Caught exception connecting device: %s" %str(e))
    sys.exit()

deviceCli.connect()

while True:
    name="JENNY"
    long=78.5458842
    lat=17.4225176
    myData={'name':name,'Longitude':long, 'Latitude':lat}

    def myOnPublishCallback():
        print("name=%s,name, Longitude = %s N" %long, "Latitude = %s E" %lat )
        success = deviceCli.publishEvent("IoTSensor","json",myData, qos=0, on_publish=myOnPublishCallback)
        if not success:
            print("not connected to IoTf")
            time.sleep(5)
            deviceCli.commandCallback = myCommandCallback
    deviceCli.disconnect()
```

IBM Watson IoT Platform

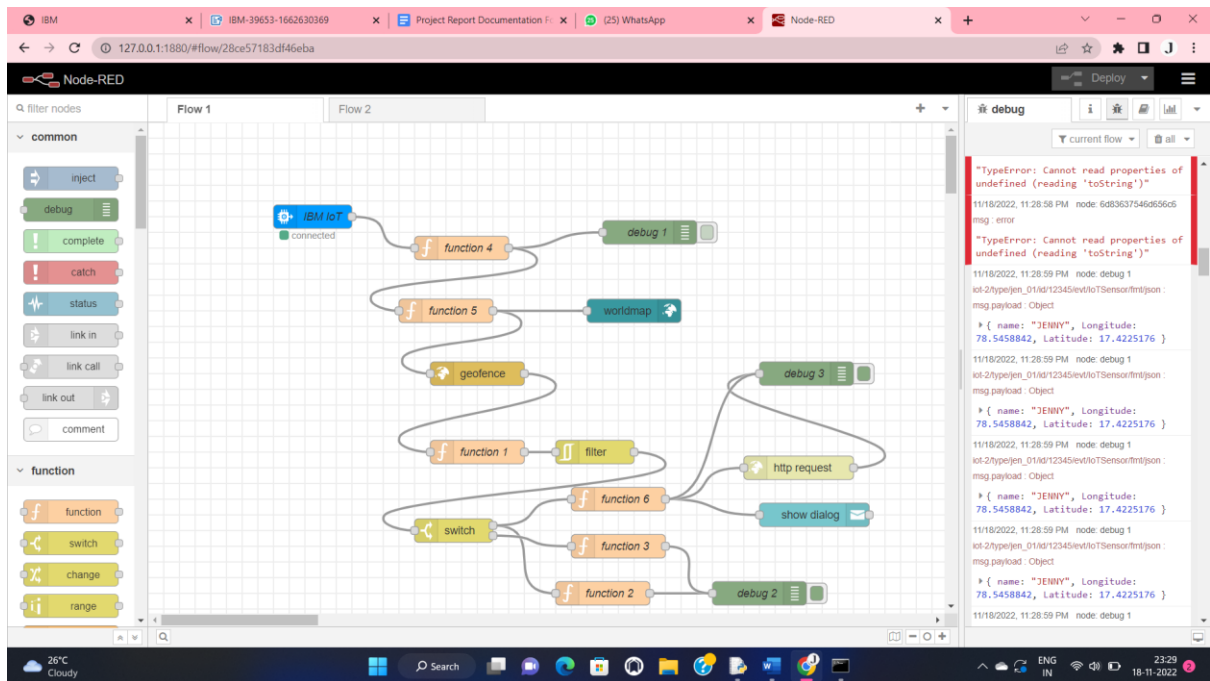
Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

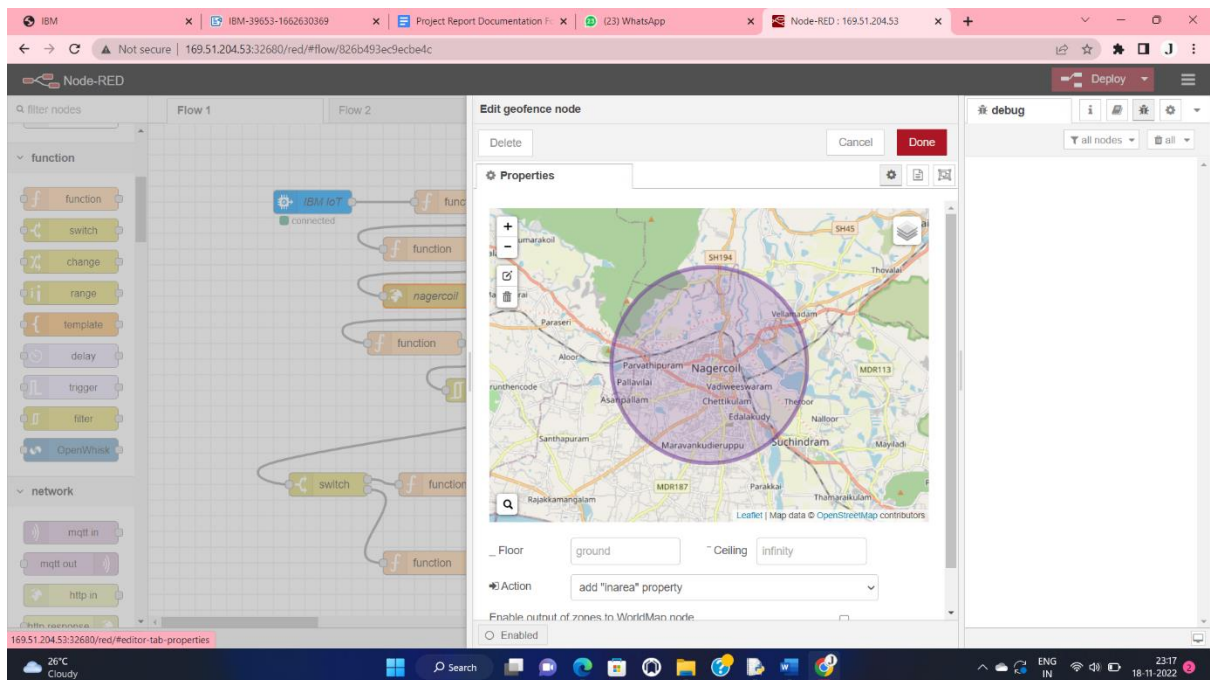
Event	Value	Format	Last Received
IoTSensor	{"name":"JENNY","Longitude":78.5458842,"Latit...	json	a few seconds ago
IoTSensor	{"name":"JENNY","Longitude":78.5458842,"Latit...	json	a few seconds ago
IoTSensor	{"name":"JENNY","Longitude":78.5458842,"Latit...	json	a few seconds ago
IoTSensor	{"name":"JENNY","Longitude":78.5458842,"Latit...	json	a few seconds ago
IoTSensor	{"name":"JENNY","Longitude":78.5458842,"Latit...	json	a few seconds ago

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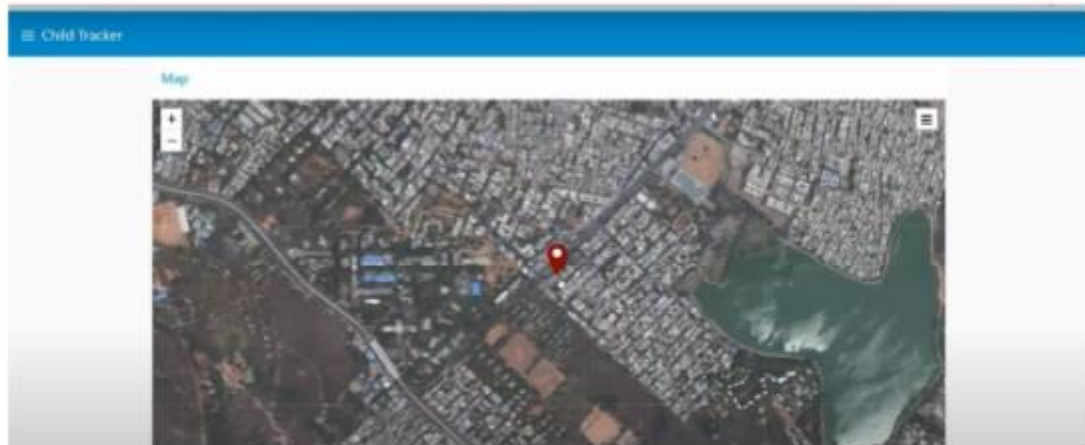
1 of 1 page



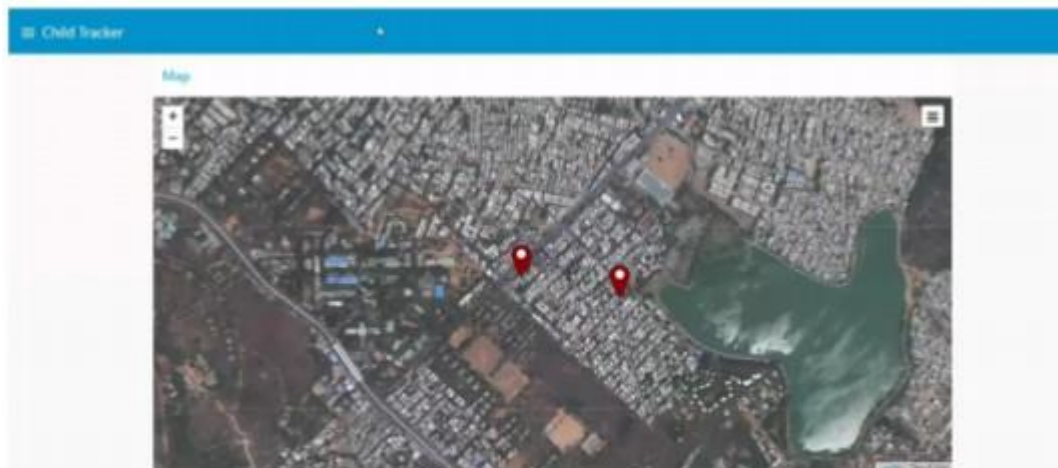
Next create the geofence



Location of the child is located



If the child crosses the geofence, the web UI shows “person is not in the particular area”.



RESULT:

Successfully the web application is developed using NODE red.