SPRINT-2

WEB APPLICATION USING NODE RED

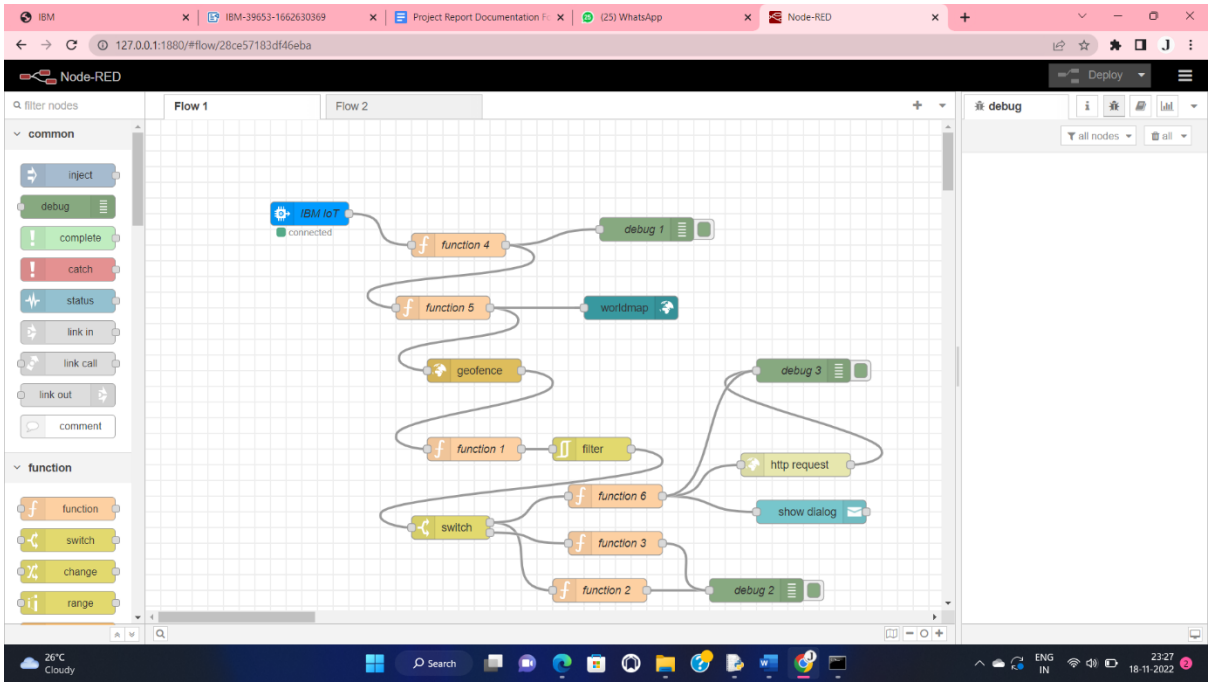
TEAM ID	PNT2022TMID34911
PROJECT ID	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

AIM:

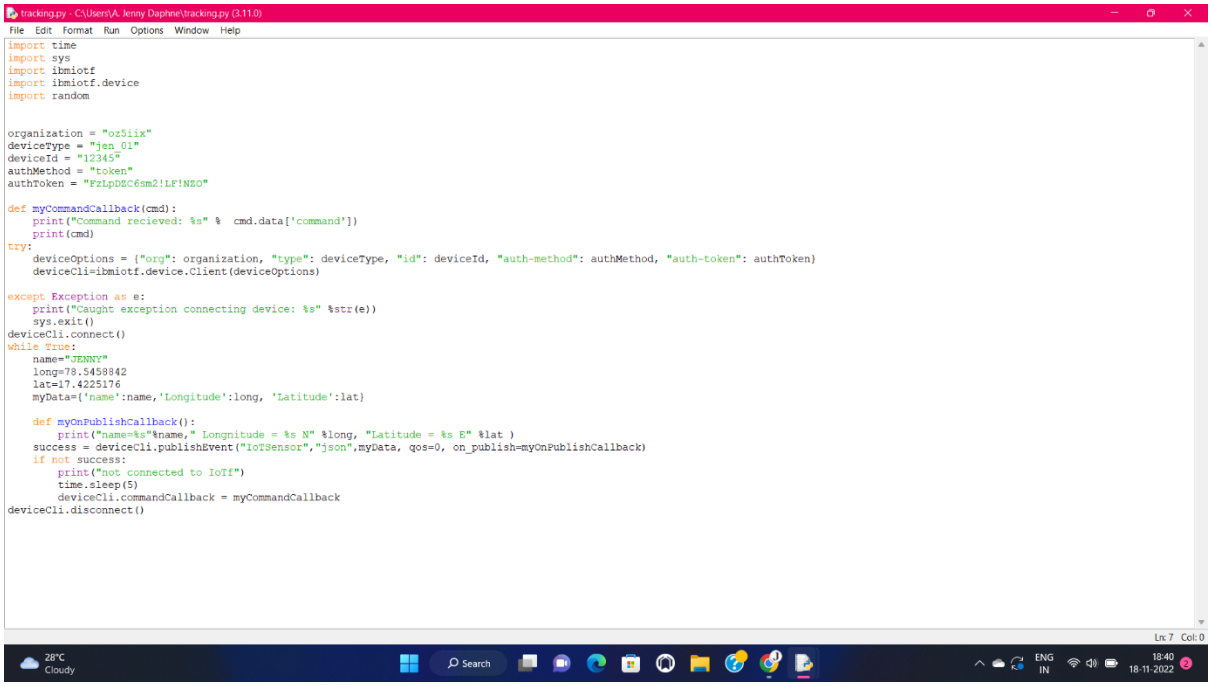
To develop the web application using NODE Red.

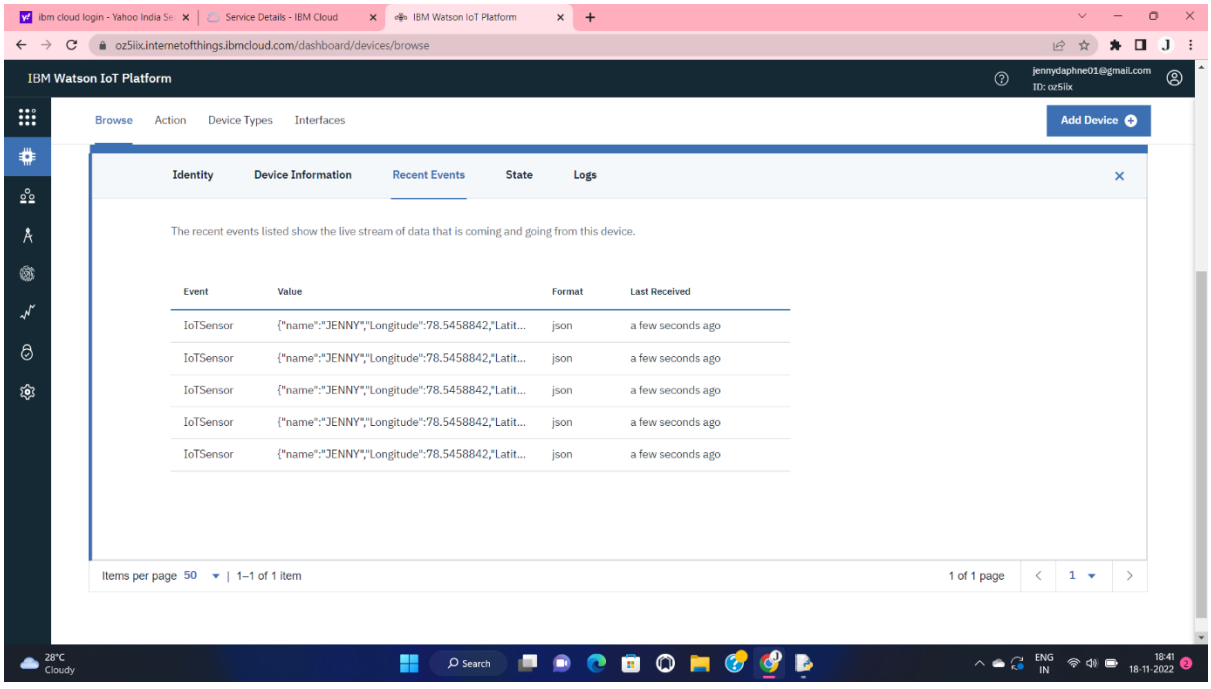
STEPS FOLLOWED:

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. Jenny Daphne\tracking.py (3.11.0)
File Edit Format Run Options Window Help
import time
import sys
import ibmiotf
import ibmiotf.device
import random
organization = "oz5iix"
deviceType = "jen_01"
deviceId = "12345"
authMethod = "token"
authToken = "FzLpDZC6sm2!LF!NZO"
def myCommandCallback(cmd):
print("Command recieved: %s" % cmd.data['command'])
print(cmd)
try:
deviceOptions = {"org": organization, "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," Longnitude = %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()
Ln: 7 Col: 0
28°C Cloudy
Search
ENG IN
18:40 18-11-2022


ibm cloud login - Yahoo India Se
Service Details - IBM Cloud
IBM Watson IoT Platform
oz5iix.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
jennydaphne01@gmail.com
ID: oz5iix
Browse
Action
Device Types
Interfaces
Add Device
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
Items per page 50 | 1–1 of 1 item
1 of 1 page
1
28°C Cloudy
Search
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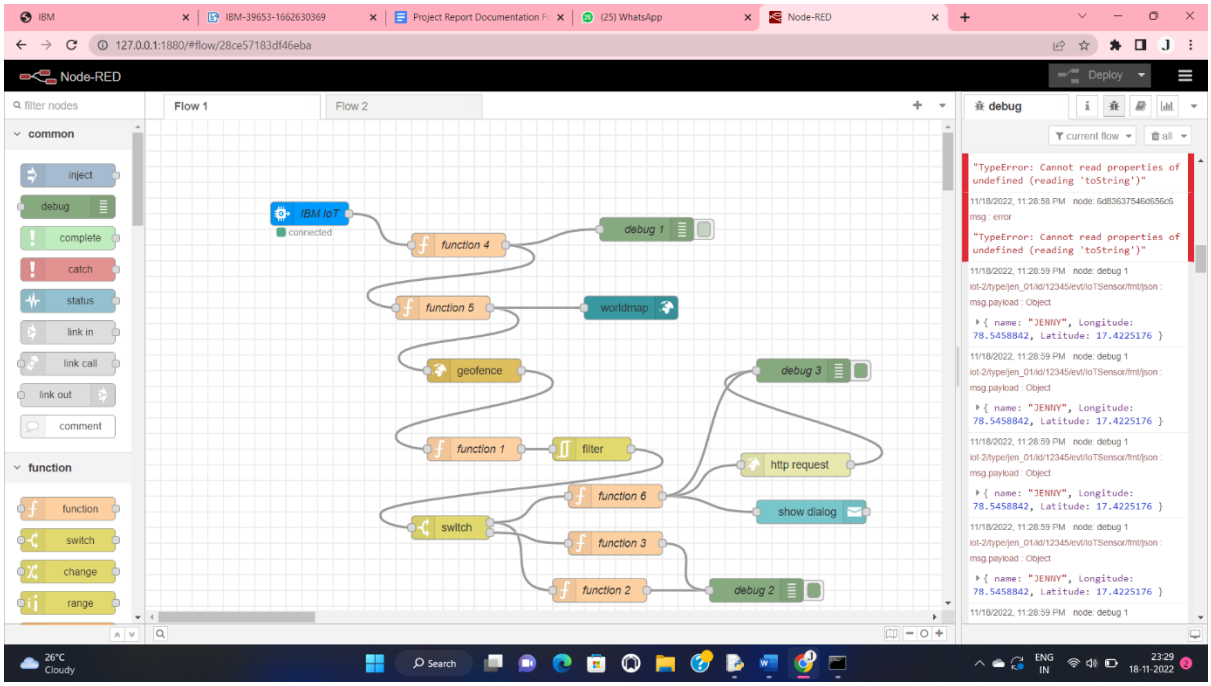
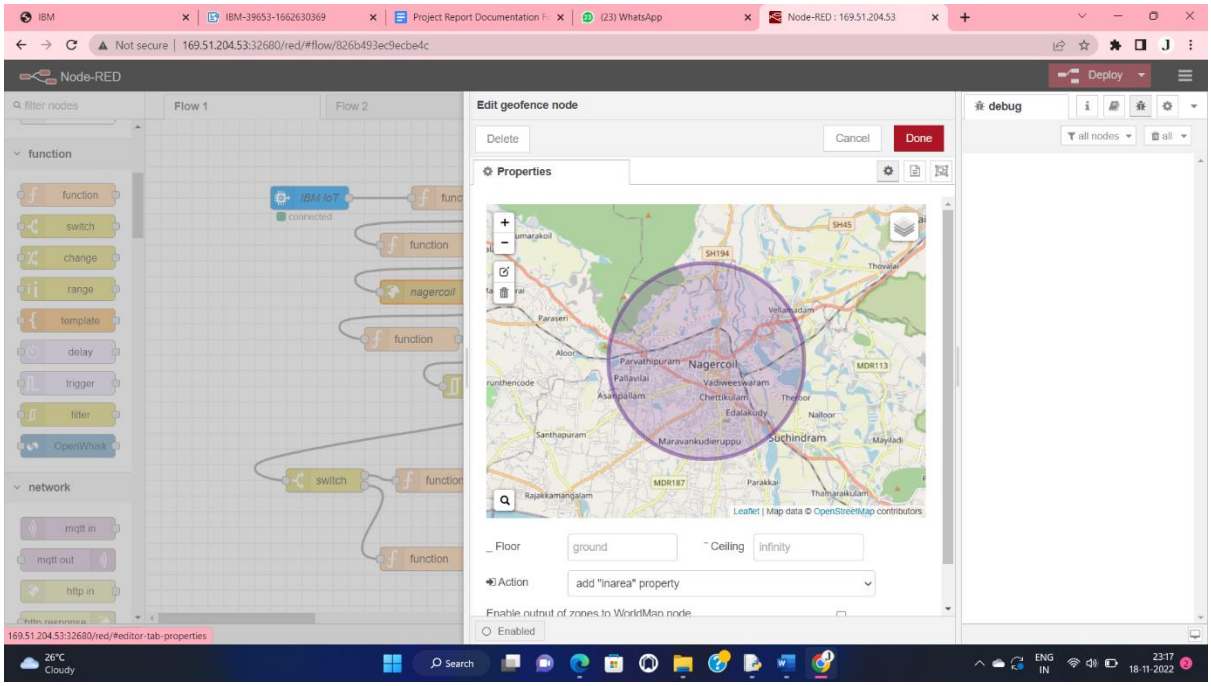
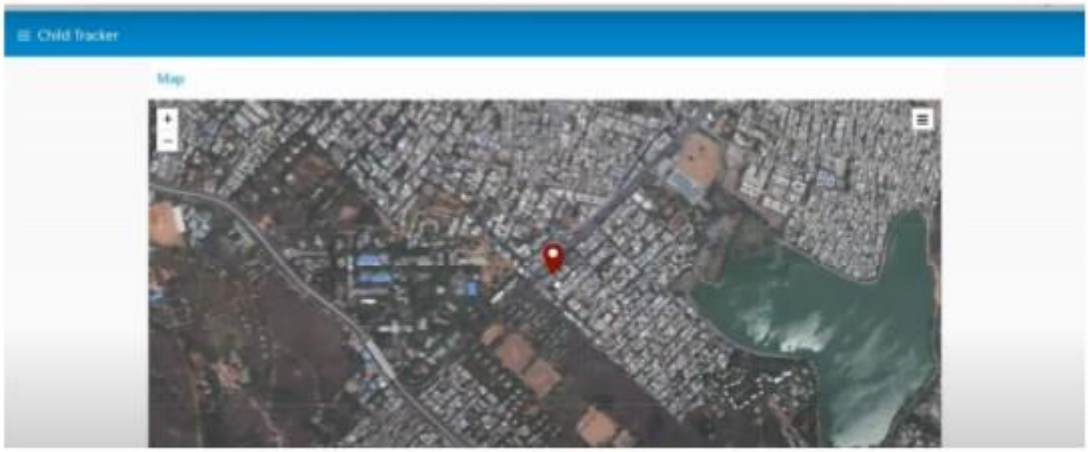


Next create the geofence



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.