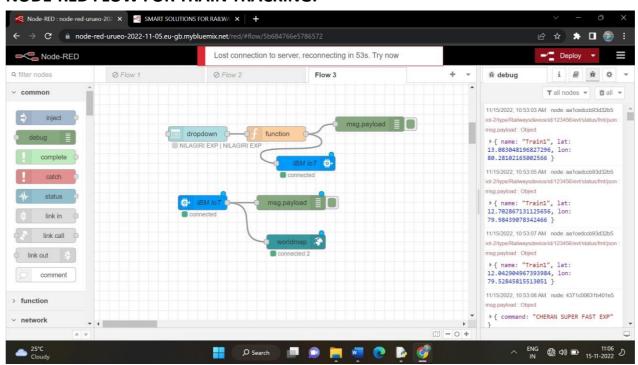
## **PROJECT DEVELOPMENT PHASE - SPRINT 3**

Date	12 November 2022
Team ID	PNT2022TMID08702
Project Name	Smart Solutions for railways

# **SPRINT 3- Train Tracking**

At the time of the journey, the user could able to track their train location by selecting the particular train. Once the train is selected ,the live location of the train can easily be tracked by the user.

## NODE-RED FLOW FOR TRAIN TRACKING:

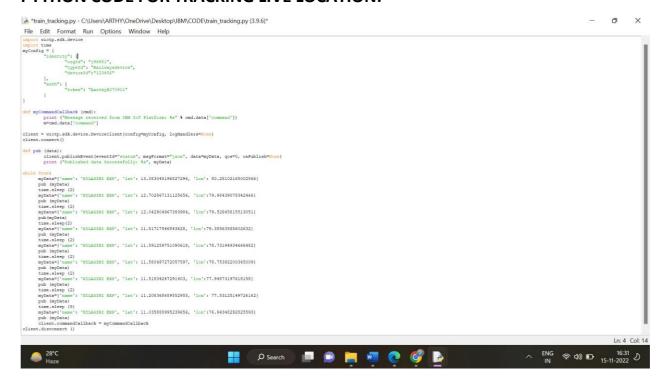


#### CODE:

```
import wiotp.sdk.device
import time
import random
myConfig = {
"identity": {
"orgId": "j96451",
"typeId": "Railwaysdevice",
"deviceId":"123456"
},
"auth": {
"token": "Manu@270901"
}
}
def myCommandCallback (cmd):
print ("Message received from IBM IoT Platform: %s" % cmd.data['command'])
m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
def pub (data):
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
print ("Published data Successfully: %s", myData)
while True:
   myData={'name': 'NILAGIRI EXP', 'lat': 13.083048196827296, 'lon':
80.28102165002566}
   pub (myData)
   time.sleep (2)
   myData={'name': 'NILAGIRI EXP', 'lat': 12.702867131125656,
'lon':79.98439078342466}
```

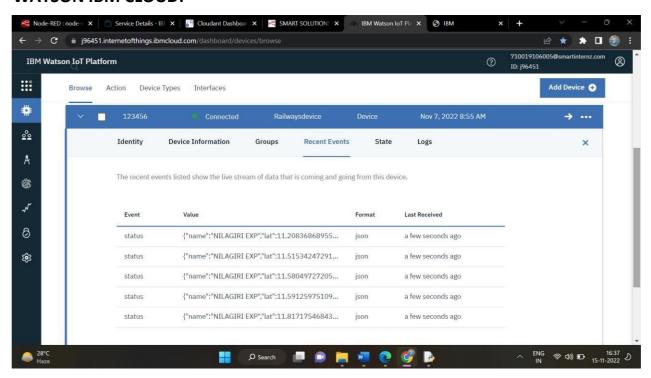
```
pub (myData)
   time.sleep (2)
   myData={'name': 'NILAGIRI EXP', 'lat': 12.042904967393984,
'lon':79.52845815513051}
   pub(myData)
   time.sleep(2)
   myData={'name': 'NILAGIRI EXP', 'lat': 11.81717546843628,
'lon':79.38563588602632}
   pub (myData)
   time.sleep (2)
   myData={'name': 'NILAGIRI EXP', 'lat': 11.591259751090618,
'lon':78.73194934666482}
   pub (myData)
   time.sleep (2)
   myData={'name': 'NILAGIRI EXP', 'lat': 11.580497272057597,
'lon':78.75392200345009}
   pub (myData)
   time.sleep (2)
   myData={'name': 'NILAGIRI EXP', 'lat': 11.51534247291403,
'lon':77.94873197618158}
   pub (myData)
   time.sleep (2)
   myData={'name': 'NILAGIRI EXP', 'lat': 11.208368689552955, 'lon':
77.53125149726162}
   pub (myData)
   time.sleep (5)
   myData={'name': 'NILAGIRI EXP', 'lat': 11.035888995239656,
'lon':76.94348292825593}
   pub (myData)
   client.commandCallback = myCommandCallback
client.disconnect ()
```

## **PYTHON CODE FOR TRACKING LIVE LOCATION:**



#### **OUTPUT:**

#### **WATSON IBM CLOUD:**



## **USER INTERFACE FOR TRAIN TRACKING:**

