

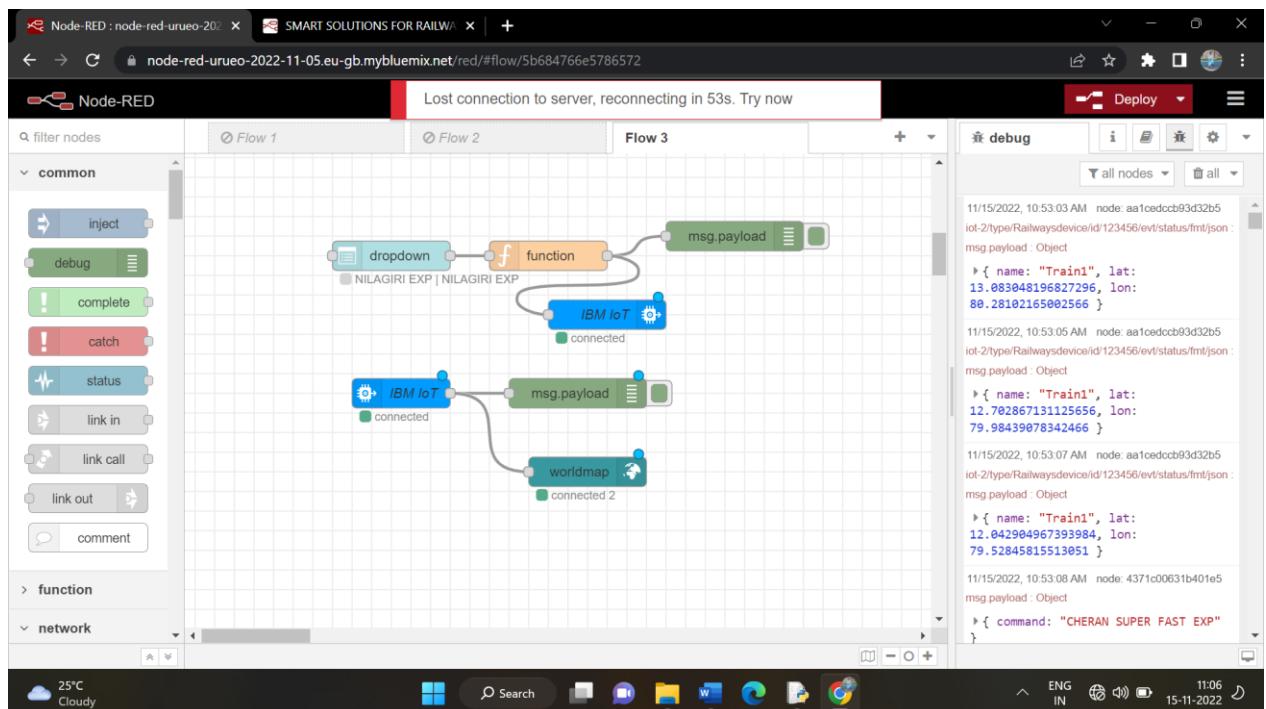
PROJECT DEVELOPMENT PHASE - SPRINT 3

Date	12 November 2022
Team ID	PNT2022TMID42243
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.

NODE-RED FLOW FOR SIGNIN AND LOGIN



CODE:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "j96451",
        "typeId": "Railwaysdevice",
        "deviceId": "123456"
    }
}
```

```
},  
    "auth": {  
        "token": "Aarthy@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 ()
```

IDLE Shell 3.9.6

```

File Edit Shell Debug Options Window Help
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/ARTHY/OneDrive/Desktop/IBM/CODE/train_tracking.py =====
2022-11-15 11:22:55,255    wiotp.sdk.device.client.DeviceClient  INFO    Connected successfully: d:j96451:Railwaysdevice:123456
Published data Successfully: %s {'name': 'NILAGIRI EXP', 'lat': 13.083048196827296, 'lon': 80.28102165002566}
Published data Successfully: %s {'name': 'NILAGIRI EXP', 'lat': 12.702867131125656, 'lon': 79.98439078342466}
Published data Successfully: %s {'name': 'NILAGIRI EXP', 'lat': 12.042904967393984, 'lon': 79.52845815513051}
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Published data Successfully: %s {'name': 'NILAGIRI EXP', 'lat': 11.208368689552955, 'lon': 77.53125149726162}
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```

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Windows Taskbar icons: File Explorer, Edge, Google Chrome, WhatsApp, File Manager, Task View, Taskbar settings.

System tray: ENG IN, 11:23, 15-11-2022

USER INTERFACE FOR SIGNIN AND LOGIN

