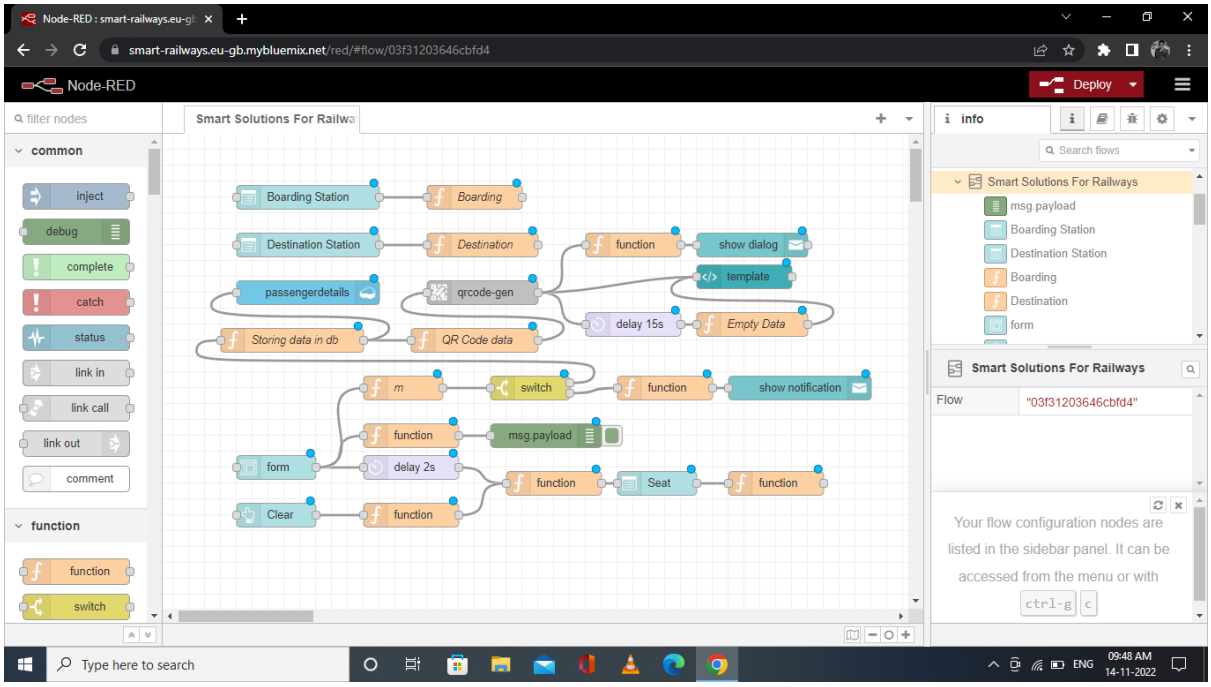
Project Development Phase

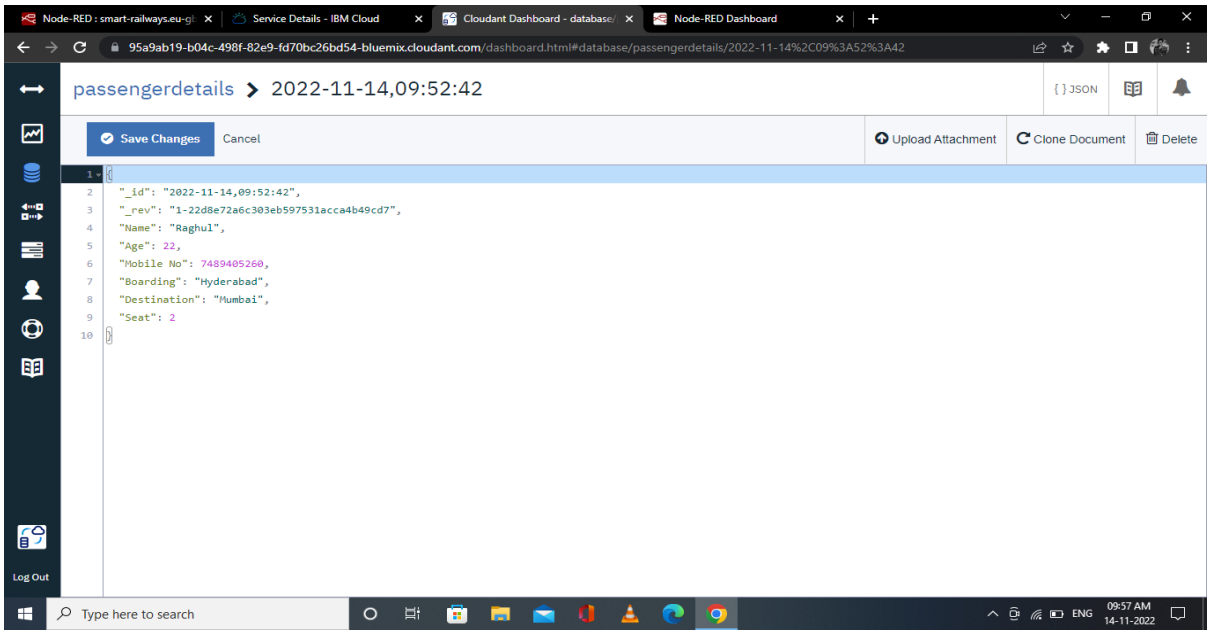
Delivery of Sprint - 3

Date	12 November 2022
Team ID	PNT2022TMID30278
Project Name	Smart Solution for Railways

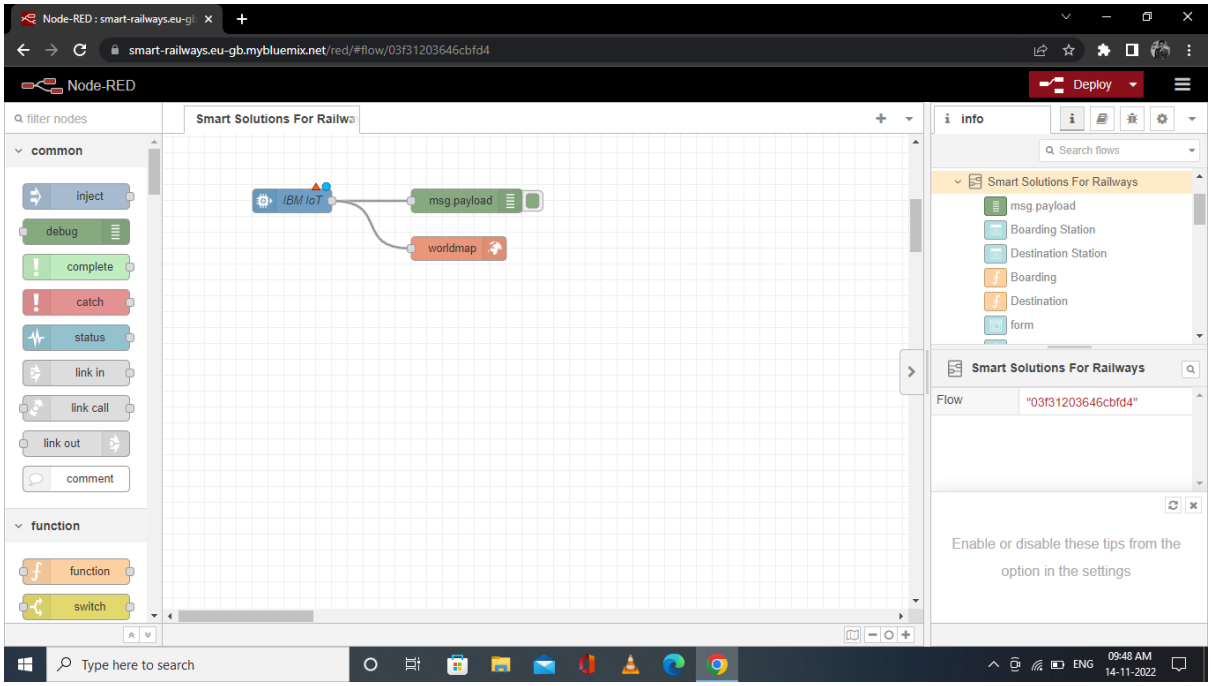
Node Red:

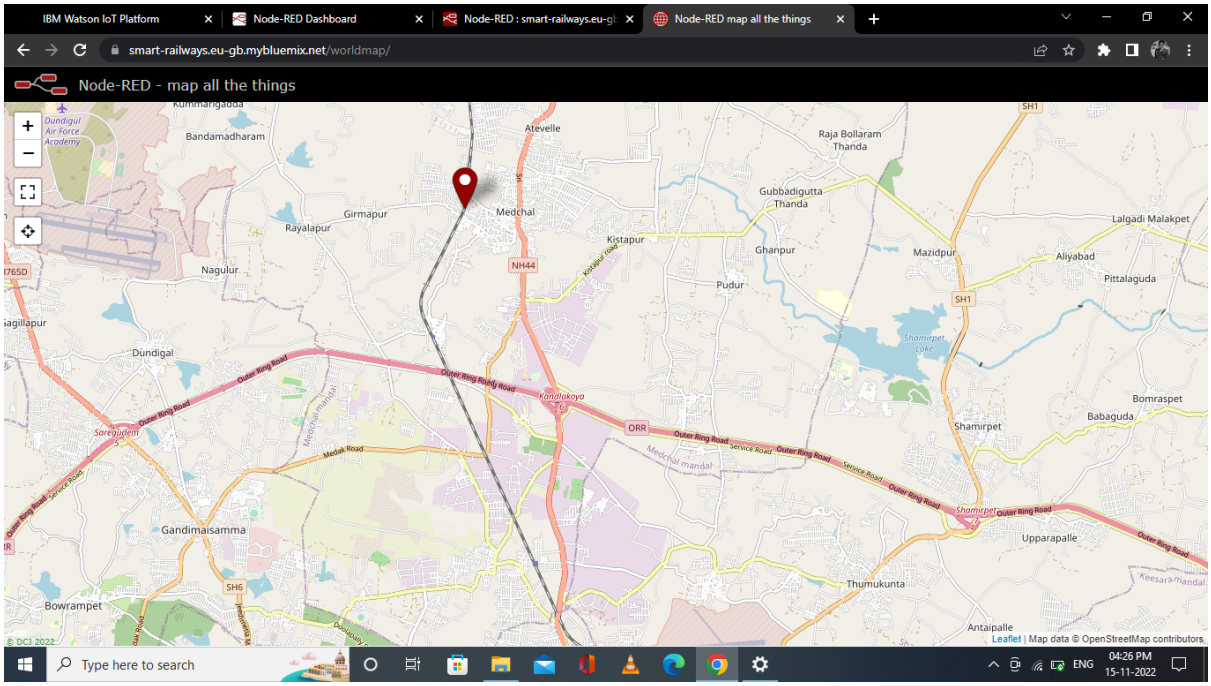


Database-cloudant DB:



Gps live tracking:





Code:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {

        "orgId": "kdp4os",
        "typeId": "GPS",
        "deviceId": "navigation"
        },
        "auth": {
            "token": "12345678"
        }
```

```
}


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':'Train1','lat':17.6387448,'lon':78.4754336}
   pub(myData)
   time.sleep(3)
   #myData={'name':'Train2','lat':17.6387448,'lon':78.4754336}
   #pub(mydata)
   #time.sleep(3)
   myData={'name':'Train1','lat':17.6341908,'lon':78.4744722}
   pub(myData)
   time.sleep(3)
   myData={'name':'Train1','lat':17.6340889,'lon':78.4745052}
   pub(myData)
```

```
    time.sleep(3)
    myData={'name':'Train1','lat':17.6248626,'lon':78.4720259}
    pub(myData)
    time.sleep(3)
    myData={'name':'Train1','lat':17.6188577,'lon':78.4698726}
    pub(myData)
    time.sleep(3)
    myData={'name':'Train1','lat':17.6132382,'lon':78.4707318}
    pub(myData)
    time.sleep(3)
    client.commandCallback = myCommandCallback
client.disconnect()
```