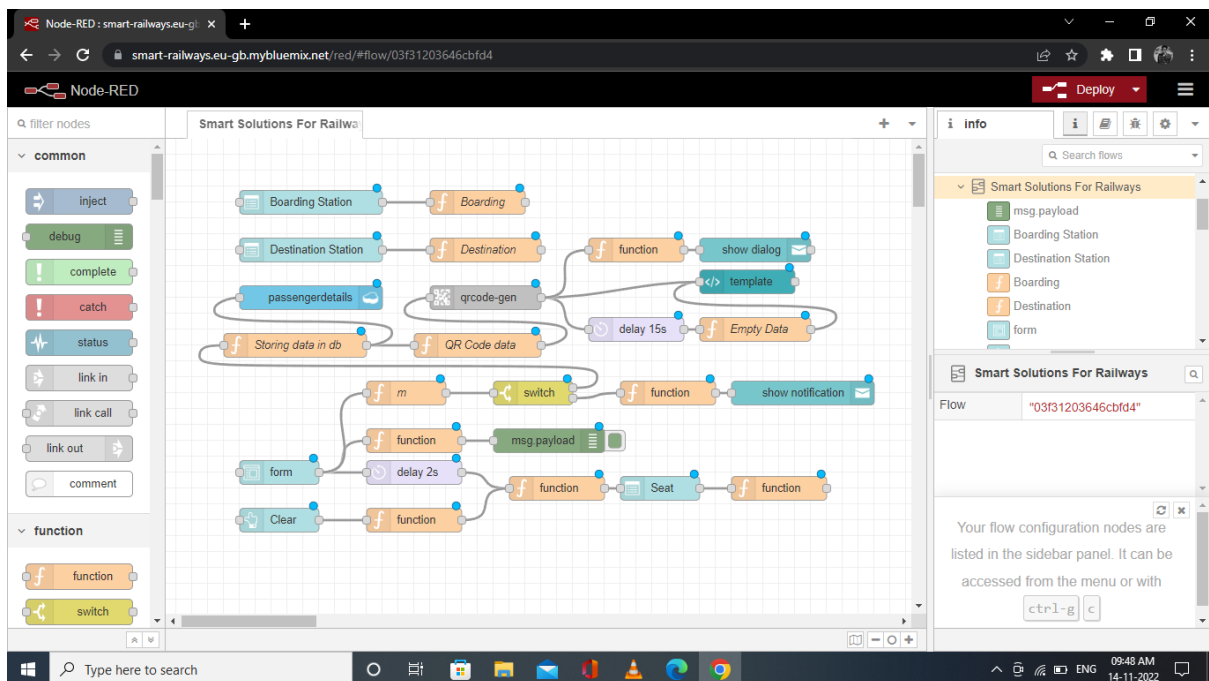


Project Development Phase

Delivery of Sprint - 3

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

Node Red:



Database-cloudant DB:

The screenshot shows the IBM Cloudant Dashboard in a web browser. The address bar displays the URL: `95a9ab19-b04c-498f-82e9-fd70bc26bd54-bluemix.cloudant.com/dashboard.html#/database/passengerdetails/2022-11-14%2C09%3A52%3A42`. The main content area shows a JSON document for a passenger with the following details:

```
{
  "_id": "2022-11-14,09:52:42",
  "_rev": "1-22d8e72a6c303eb597531acca4b49cd7",
  "Name": "Raghul",
  "Age": 22,
  "Mobile No": 7489405260,
  "Boarding": "Hyderabad",
  "Destination": "Mumbai",
  "Seat": 2
}
```

The interface includes a left sidebar with navigation icons, a top bar with a "Save Changes" button, and a right sidebar with "Upload Attachment", "Clone Document", and "Delete" options. The bottom of the screen shows a Windows taskbar with the time 09:57 AM on 14-11-2022.

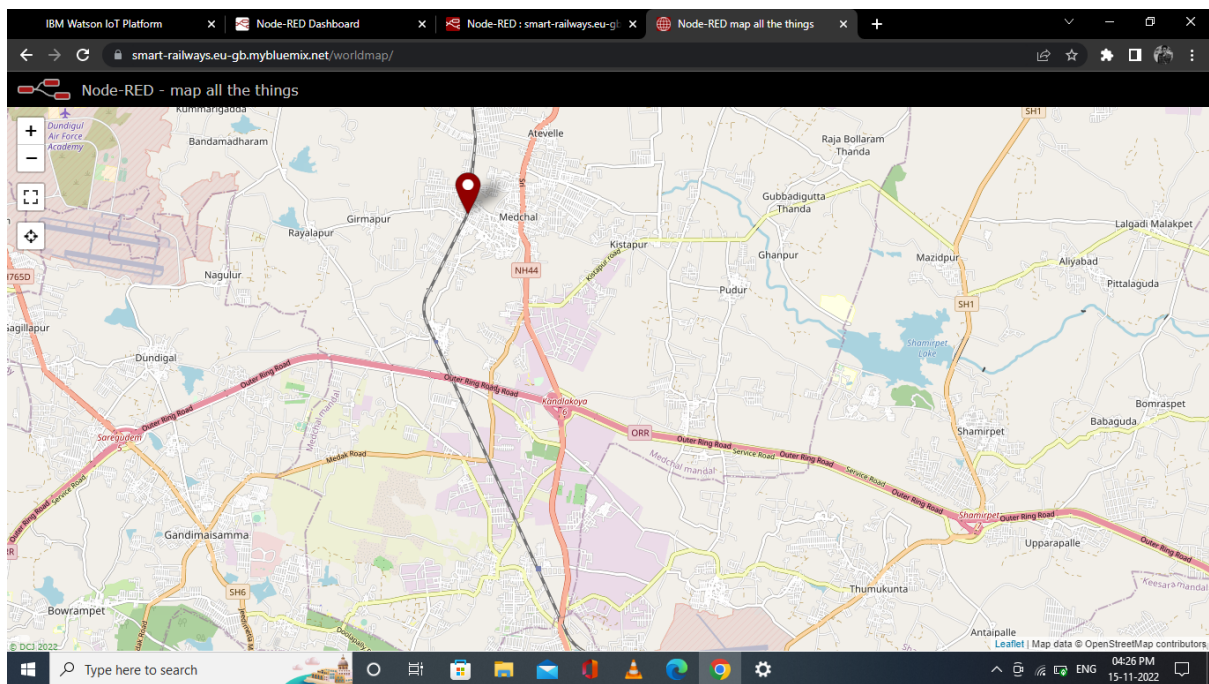
Gps live tracking:

The screenshot shows the Node-RED web interface in a browser. The address bar displays the URL: `smart-railways.eu-gb.mybluemix.net/red/#flow/03f31203646cbfd4`. The main workspace shows a flow titled "Smart Solutions For Railways" with the following nodes:

- IBM IoT** (blue node)
- msg.payload** (green node)
- worldmap** (red node)

The flow is connected as follows: **IBM IoT** → **msg.payload** → **worldmap**.

The left sidebar shows a "filter nodes" search bar and a list of nodes under "common" and "function" categories. The right sidebar shows the "info" panel with a search bar and a list of flows. The bottom of the screen shows a Windows taskbar with the time 09:48 AM on 14-11-2022.



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()
```