

INDRA GANDHI NATIONAL OPEN UNIVERSITY



Project Report Based on
Metro Rail Management System

Submitted By
Sanjeev Kumar
Enr no. - 151752665

Submitted to the School of Computer and Information Science in Partial
fullfillment of the rquirements of the degree of

Bachelor of Computer Application
(2015-2017)

ABSTRACT

This is an integrated service which provide all information about the metro rail and it's routes for public. The proposed system is a web based application which provides information regarding timings, routes, fair. This system manages public feedback about services through it's complaint management system. This system also contains an online ticket recharge module where users can recharge their smart cards online through the site. There is also an admin module where admin can add stations, trains, routes and also update the fairs. The admin is a panel consisting of a group of authorized persons.

ACKNOWLEDGMENT

I take this occasion to thank God, almighty for blessing us with his grace and taking our endeavor to a successful culmination. I extend my sincere and heartfelt thanks to our esteemed guide, Mr. Pankaj Kumar JHA , for providing me with the right guidance and advice at the crucial junctures and for showing me the right way. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

Table Of Contents

- Approved Letter
- Certificate of Originality
- Abstract
- Acknowledgment
- Table of Contents
- Approved Synopsis
 - Title of the Project
 - Introduction
 - Category Of Project
 - Tools and Requirements
 - Overview Modules
 - Database Design and Tables
 - E-R Diagram
 - Data Flow Diagram
 - System Analysis
 - System Design
 - Future Scope
 - Conclusion
- List Of Figures
- Title of the Project Report

Chapter 1.....
Introduction.....

1.1 Overview.....
1.2 Objectives.....
1.2.1 Complain Management Module.....
1.2.2 Online Ticket Recharge.....
1.2.3 Metro Time Table
1.2.4 Fair and Route Map.....
1.2.5 Admin.....

Chapter 2

System Analysis.....

2.1 Proposed System
2.2 System Requirements Specification (SRS).....
2.2.1 General Description
2.2.2 System Objectives
2.2.3 System Requirements
2.2.3.1 Non Functional Requirements.....
2.2.3.2 Functional Requirements
2.2.4 Software and Hardware Requirements.....
2.2.4.1 Software Requirements
2.2.4.2 Hardware Requirements.....

Chapter 3

System Design.....

3.1 Input and Output Design.....
3.1.1 Input Design
3.1.2 Output Design
3.2 Database.....
3.3 System Tool
3.3.1 Front End.....
3.3.2 Back End.....
3.4 Tables
3.5 E-R Diagrams.....
3.6 Data Flow Diagrams (DFD)

Chapter 4.....

Program Code and Screenshots

Chapter 5.....

Testing

5.1 Types of Testing.....
5.2 Use Case
5.3 Test Cases
Chapter 6
Implementation.....
Chapter 7.....
Future Scope
Chapter 8.....
Conclusion
Chapter 9.....
References

Chapter 1

Introduction

This is an integrated service which provide all information about the metro rail and it's routes for public. The proposed system is a web based application which provides information regarding timings, routes, fair. This system manages public feedback about services through it's complaint management system. This system also contains an online ticket recharge module where users can recharge their smart cards online through the site.

There is also an admin module where admin can add stations, trains, routes and also update the fairs. The admin is a panel consisting of a group of authorized persons.

1.1 OBJECTIVE

The objectives of the project are as follows:

- Users can register complaints through the site.
- User login page where users can recharge tickets online.
- Users can view metro timetable.
- User can also view the fair details and the route map.
- An admin login page where admin can add stations, trains, routes, update fairs and even add a new admin.

1.2 OVERVIEW

Metro Rail Management System consist of the following implementation modules.

1.2.1 Complaint Management Module.

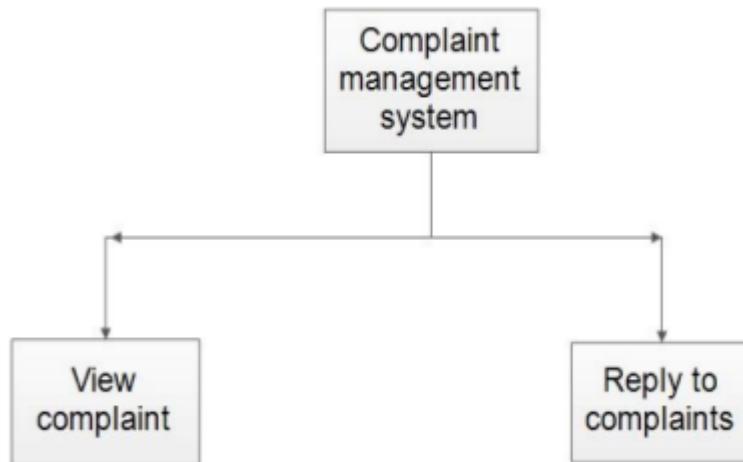


Fig 1.2.1 Complaint Management Module

This module contains various facilities like view complaints and reply to complaints.

1.2.2 Online Ticket Recharge Module

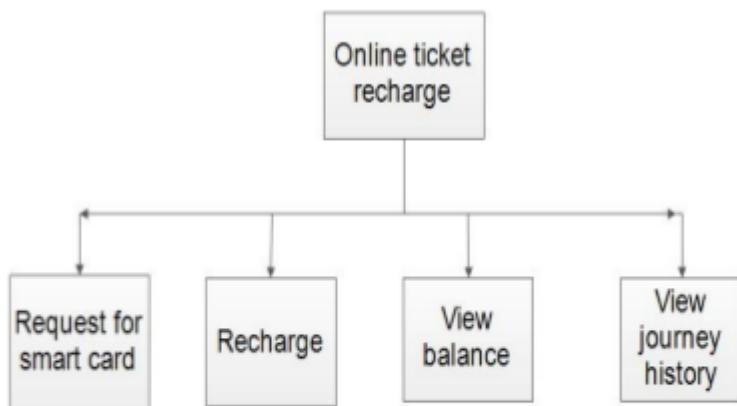


Fig 1.2.2 Online Ticket Recharge Module

1.2.3 Metro Time Table Module

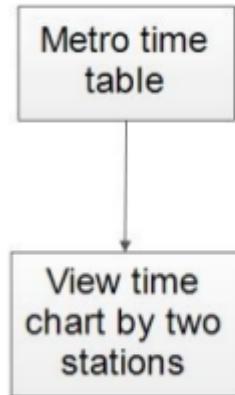


Fig 1.2.3 Metro Time table module

This module contains various facilities like view time chart between two stations.

1.2.4 Fair and Route Map Module

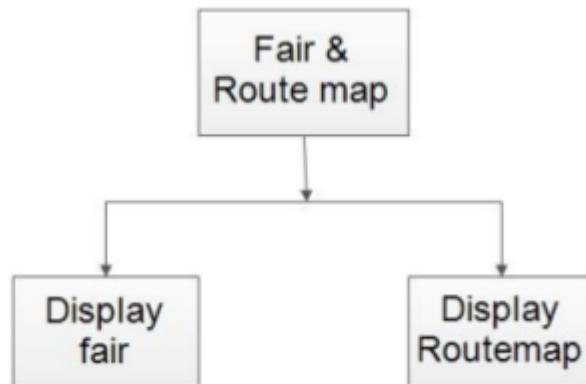


Fig 1.2.4 Fair and route map module

This module contains various facilities like display fair and display route map.

1.2.5 Admin Module.

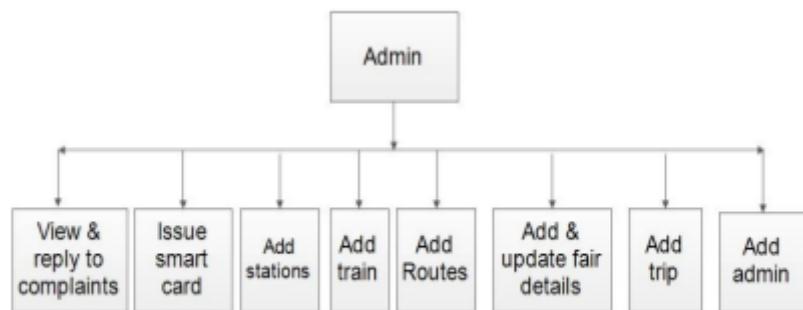


Fig 1.2.5 Admin module

This module contains facilities like view & reply to complaints, issue smart card, add stations ,add train ,add routes ,add & update fair details ,add trip and add admin.

Chapter 2

System Analysis

System analysis is the process of gathering and interpreting facts, diagnosing problems and using the information to recommend improvements on the system. System analysis is a problem solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

2.1 Proposed System

The proposed system is designed to eliminate the disadvantages of the existing system. The proposed system “Metro Rail Management System” is mentioned for tracing the problems in the existing system.

- Increased efficiency and reliability.
- Easier Access.
- Easy to use
- Provide accurate information to the user for taking necessary decisions.
- Accuracy - The information will be correct, accurate and unambiguous.
- Efficiency - Information can be collected, processed and communicated more quickly and efficiently. Systems ensure that right information reaches the right person at the right time.
- Reliability - Since systems are free from boredom and tiredness, they work constantly on data to produce more reliable outputs.
- Accessibility, Usability and Understandability
- The options used can be easily accessed, used and realized.

2.2 System Requirement Specification

2.2.1 General Description

Product Description:

Metro rail management system is an online system which helps the user to recharge their tickets online, it also have a complaint management system in which users can register their complaints online. By visiting the site the users can get metro time table. Other than that by entering the source station and destination station the users can get all sorts of information about trains arriving and departing from the stations, it's fair details and even it provides you the route map.

Problem Statement:

The problem occurred before having online system includes:

- File lost

When online system is not implemented the complaints are reported in files. The files are always lost due to some human errors.

- Time consuming

When there is no computerized system then for recharge purposes the users need to travel to the stations and also sometimes even need to stand in large queues for recharge purposes.

- Most updatations are unnoticeable

When online systems is not implemented any changes in fair, timings etc when updated ,the details of these things are only available at the stations.

2.2.2 System Objectives

- Improvement in Control and performance

The system is developed to cope up with current issues and problems of the metro rail. The system helps to recharge online, make a complaint online , display metro timetable ,fairs and route maps.

- Save time

User is able to recharge online, see details of metro time table , fairs & route maps and even the user can complaint online there by saving his valuable time.

- Easy to Use

A person with just an internet connection and a pc can do things such as complaint, recharge and view metro details very easily.

2.2.3 System Requirements

2.2.3.1 Non Function Requirements

- EFFICIENCY REQUIREMENT

When a metro rail management system will be implemented then the user can recharge, complaint and view metro information fastly& easily.

- RELIABILITY REQUIREMENT

The system should accurately perform recharge, store complaints, show the details of metro such as fair, route maps.

- USABILITY REQUIREMENT

The system is designed for a user friendly environment so that user and admin of metro rail can perform various tasks easily and in an effective way.

- IMPLEMENTATION REQUIREMENTS

In implementing whole system it uses html in front end with jsp as server side scripting language which will be used for database connectivity and the backend ie the database part is developed using mysql.

2.2.3.2 Functional Requirements

REGISTER COMPLAINT

Description of Feature

This feature allows users to file complaints through the site. The user does not require a registration. He can give his name, email-id, phone number, address and other details along with the complaints. The admin will reply to the complaints sent by user.

Functional Requirements

- System must be able to verify information.
- System must be able to store the information in database.
- System must be able to retrieve information when required by admin.

METRO CARD

Description of Feature

This feature allows the user to recharge their metro card online, thereby saving their valuable time. Users need to login with their card number & password and can recharge their tickets online. It also allows them to view their balance and journey history.

Functional Requirements

- Card No. is provided when Admin issue the new Card.
- The system must be able to show the users balance..
- The user must be able to logout after they had finished recharging or after viewing the balance or journey history.

METRO TIME TABLE

Description of feature

This feature allows the users to view the metro time table. Users are required to enter the source station and destination station, when they enter the data then the system will show the metro time table.

Functional Requirements

- System must allow the users to enter the source station and destination stations.
- System must be able to process information from database.

ADMIN

Description of Feature

This feature allows the admin to view and reply to complaints. Admin can add stations, routes ,train , trip . Admin can also add and update fair details, and even add a new admin. Actually, the admin is a panel consisting of a group of authorized persons.

Functional Requirements

- The system must allow admin to add train, stations ,routes,fair, metro timetable and even add a new admin.
- The system must also allow admin to reply to the complaints send by the user.
- The system should be designed in such a way that only authorized people should be allowed to access some particular modules.
- The records should be modified by only administrators and no one else.

2.2.4 Software and Hardware Requirements

This section describes the software and hardware requirements of the system

2.2.4.1 Software Requirements

Operating system- Windows 7 is used as the operating system as it is stable and supports more features and is more user friendly.

Database MYSQL-MYSQL is used as database as it easy to maintain and retrieve records by simple queries which are in English language which are easy to understand and easy to write.

Development tools and Programming language - HTML is used to write the whole code and develop webpages with css, java script,Bootstrap for styling work and JSP for sever side scripting.

2.2.4.2 Hardware Requirements

- Intel core i3 2 nd generation is used as a processor because it is fast than other processors and provide reliable and stable and we can run our pc for longtime. By using this processor we can keep on developing our project without any worries.
- Ram 1 gb is used as it will provide fast reading and writing capabilities and will in turn support in processing.

Chapter 3

System Design

System design is the solution for the creation of a new system. This phase focuses on the detailed implementation of the feasible system. It emphasizes on translating design specifications to performance specification. System design has two phases of development

- Logical design
- Physical design

During logical design phase the analyst describes inputs (sources), outputs(destinations), databases (data stores) and procedures (data flows) all in a format that meets the user requirements. The analyst also specifies the needs of the user at a level that virtually determines the information flow in and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design. The physical design is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which specify.

exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data and produce the required report on a hard copy or display it on the screen.

3.1 Input and Output Design

3.1.1 Input Design

Input design is the link that ties the information system into the world of its users.

The input design involves determining the inputs, validating the data, minimizing the data entry and provides a multi-user facility. Inaccurate inputs are the most common processing. Errors entered by the cause of errors in data entry operators can be controlled by input design. The user-originated inputs are converted to a computer based format in the input design. Input data are collected and organized into groups of similar data. Once identified, the appropriate input media are selected for processing. All the input data are validated and if any data violates any conditions, the message. user is warned by a If the data satisfies all the conditions, it is transferred to the appropriate tables in the database. In this project the student details are to be entered at the time of registration. A page is designed for this purpose which is user friendly and easy to use. The design is done such that users get appropriate messages when exceptions occur.

3.1.2 Output Design

Computer output is the most important and direct source of information to the user. Output design is a very important phase since the output needs to be in an efficient manner. Efficient and intelligible output design improves the system relationship with the user and helps in decision making.

Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output. The output module of this system is the selected notifications.

3.2 Database

Database Design

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system. Two essential settings for a database are:-

primary key - the field that is unique for all the record occurrences.

Foreign key -the field used to set relation between tables.

Normalization is a technique to avoid redundancy in the tables.

3.3 System Tools

The various system tools that have been used in developing both the front end and the back end of the project are being discussed in this chapter.

3.3.1 Front End

JSP, HTML, CSS, JAVA SCRIPTS are utilized to implement the frontend.

Java Server Pages (JSP)

Different pages in the applications are designed using jsp. A Java Server Pages component is a type of Java servlet that is designed to fulfil the role of a user interface for a Java web application. Web developers write JSPs as text files that combine HTML

and embedded JSP actions and commands. Using JSP, one can collect input from users through web page.

HTML (Hyper Text Markup Language)

HTML is a syntax used to format a text document on the web.

CSS (Cascading Style Sheets)

CSS is a style sheet language used for describing the look and formatting of a document written in a markup language.

Java Script

JS is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed.

3.3.2 Backend

The back end is implemented using MySQL which is used to design the databases.

MySQL

MySQL is the world's second most widely used open-source relational database management system (RDBMS). The SQL phrase stands for Structured Query Language. An application software called wamp was used to design the tables in MySQL

3.4 Tables

Admin

#	Name	Type
1	admin_id 	int(11)
2	a_name	varchar(25)
3	a_address	varchar(75)
4	phone_num	varchar(13)
5	email	varchar(30)
6	age	int(11)
7	gender	varchar(6)
8	permission	int(11)
9	designation	varchar(25)
10	password	varchar(30)

Code for Creating Admin Tables :

```
CREATE TABLE `admin` (
`admin_id` int(11) NOT NULL AUTO_INCREMENT,
`a_name` varchar(25) NOT NULL,
`a_address` varchar(75) NOT NULL,
`phone_num` varchar(13) NOT NULL,
`email` varchar(30) NOT NULL,
`age` int(11) NOT NULL,
`gender` varchar(6) NOT NULL,
`permission` int(11) NOT NULL,
`designation` varchar(25) NOT NULL,
`password` varchar(30) NOT NULL,
PRIMARY KEY (`admin_id`)
) ENGINE=InnoDB AUTO_INCREMENT=8 DEFAULT CHARSET=latin1
```

card_recharges

#	Name	Type
1	id 	int(11)
2	card_num	varchar(10)
3	status	varchar(20)
4	amount	varchar(10)
5	datetime	datetime
6	txn_id	varchar(255)
7	paymentid	text

Code For Creating card_recharges Table:

```
CREATE TABLE `card_recharges` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`card_num` varchar(10) NOT NULL,
`status` varchar(20) NOT NULL,
`amount` varchar(10) NOT NULL,
`datetime` datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
`txn_id` varchar(255) NOT NULL,
`paymentid` text,
20 PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=7 DEFAULT CHARSET=latin1
```

complaints

#	Name	Type
1	id 	int(11)
2	u_name	varchar(30)
3	u_address	text
4	phone_num	varchar(13)
5	msg	text
6	email	varchar(50)
7	age	int(11)
8	status	tinyint(1)
9	datetime	datetime

Code For Creating Table complaints :

```
CREATE TABLE `complaints` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`u_name` varchar(30) NOT NULL,
`u_address` text NOT NULL,
`phone_num` varchar(13) NOT NULL,
`msg` text NOT NULL,
`email` varchar(50) NOT NULL,
`age` int(11) NOT NULL,
`status` tinyint(1) NOT NULL,
`datetime` datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=8 DEFAULT CHARSET=latin1
```

fair

#	Name	Type
1	id 	int(11)
2	amt	varchar(10)
3	min_distances	varchar(10)
4	max_distances	varchar(10)

Code for Creating Table fair :

```
CREATE TABLE `fair` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`amt` varchar(10) NOT NULL,
`min_distances` varchar(10) NOT NULL,
`max_distances` varchar(10) NOT NULL,
PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=9 DEFAULT CHARSET=latin1
```

metro_card

#	Name	Type
1	id 	int(11)
2	card_num	varchar(20)
3	u_name	varchar(30)
4	u_address	text
5	age	int(11)
6	gender	varchar(6)
7	phone_num	varchar(13)
8	email	varchar(50)
9	password	varchar(20)
10	card_status	tinyint(1)
11	balance	float

Code for creating Table metro_card:

```
CREATE TABLE `metro_card` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`card_num` varchar(20) DEFAULT NULL,
`u_name` varchar(30) NOT NULL,
`u_address` text NOT NULL,
`age` int(11) NOT NULL,
`gender` varchar(6) NOT NULL,
`phone_num` varchar(13) NOT NULL,
`email` varchar(50) NOT NULL,
`password` varchar(20) NOT NULL,
`card_status` tinyint(1) NOT NULL DEFAULT '0',
`balance` float DEFAULT NULL,
PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=3 DEFAULT CHARSET=latin1
```

reply

#	Name	Type
1	id 	int(11)
2	complaints_id	int(11)
3	msg	text
4	admin_id	int(11)

Code for creating Table reply:

```
CREATE TABLE `reply` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`complaints_id` int(11) NOT NULL,
`msg` text NOT NULL,
`admin_id` int(11) NOT NULL,
PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=6 DEFAULT CHARSET=latin1
```

route

#	Name	Type
1	id 	int(11)
2	r_name	varchar(50)

Code for Creating Table route:

```
CREATE TABLE `route` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`r_name` varchar(50) NOT NULL,
PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=3 DEFAULT CHARSET=latin1
```

route_details

#	Name	Type
1	id 	int(11)
2	route_id	int(11)
3	station_id	int(11)
4	s_order_num	int(11)
5	length_from_start	float

Code for creating Table route_details:

```
CREATE TABLE `route_details` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`route_id` int(11) NOT NULL,
`station_id` int(11) NOT NULL,
`s_order_num` int(11) NOT NULL,
`length_from_start` float NOT NULL,
PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=33 DEFAULT CHARSET=latin1
```

station

#	Name	Type
1	id 	int(11)
2	s_name	varchar(50)
3	latitude	float
4	longitude	float

Code for Creating Table station:

```
CREATE TABLE `station` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`s_name` varchar(50) NOT NULL,
`latitude` float NOT NULL,
`longitude` float NOT NULL,
PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=16 DEFAULT CHARSET=latin1
```

trains

#	Name	Type
1	id 	int(11)
2	train_no	varchar(20)
3	capacity	int(11)

Code for creating Table trains:

```
CREATE TABLE `trains` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`train_no` varchar(20) NOT NULL,
`capacity` int(11) NOT NULL,
PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=7 DEFAULT CHARSET=latin1
```

trip

#	Name	Type
1	id 	int(11)
2	trip_code	varchar(20)
3	train_id	int(11)
4	route_id	int(11)

Code for creating Table trip:

```
CREATE TABLE `trip` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`trip_code` varchar(20) NOT NULL,
`train_id` int(11) NOT NULL,
`route_id` int(11) NOT NULL,
PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT CHARSET=latin1
```

trip_details

#	Name	Type
1	id 	int(11)
2	trip_num	int(11)
3	station_id	int(11)
4	arrival_time	varchar(10)
5	departure_time	varchar(10)

Code for Creating Table trip_details:

```
CREATE TABLE `trip_details` (
`id` int(11) NOT NULL AUTO_INCREMENT,
`trip_num` int(11) NOT NULL,
`station_id` int(11) NOT NULL,
`arrival_time` varchar(10) NOT NULL,
`departure_time` varchar(10) NOT NULL,
PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=11 DEFAULT CHARSET=latin1
```

3.5 E-R Diagram

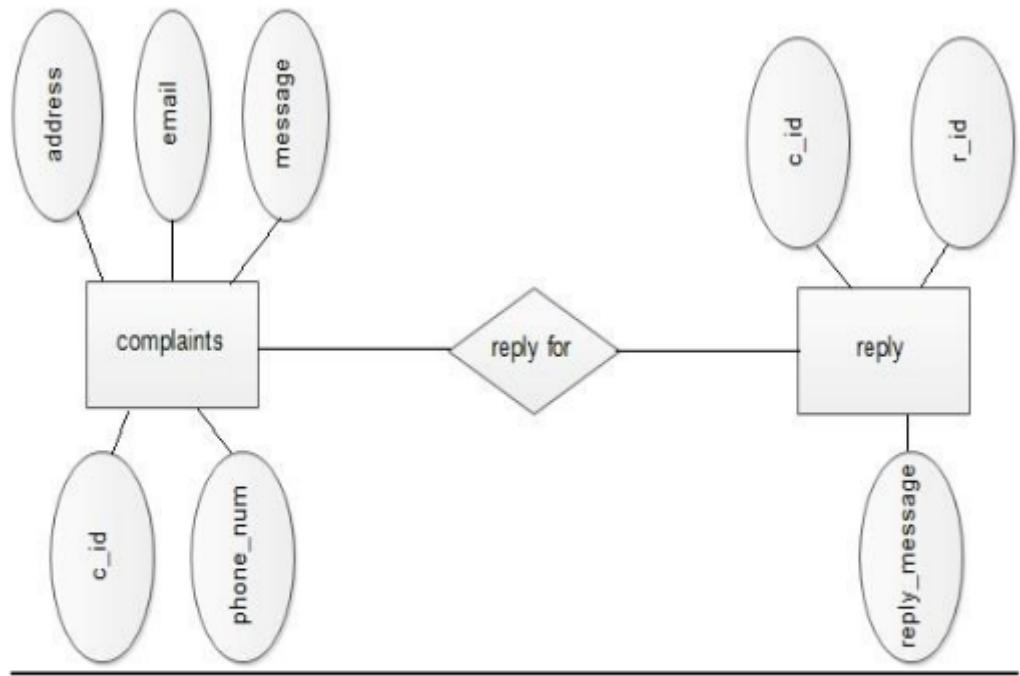


Fig 3.5.1. Complaint Management

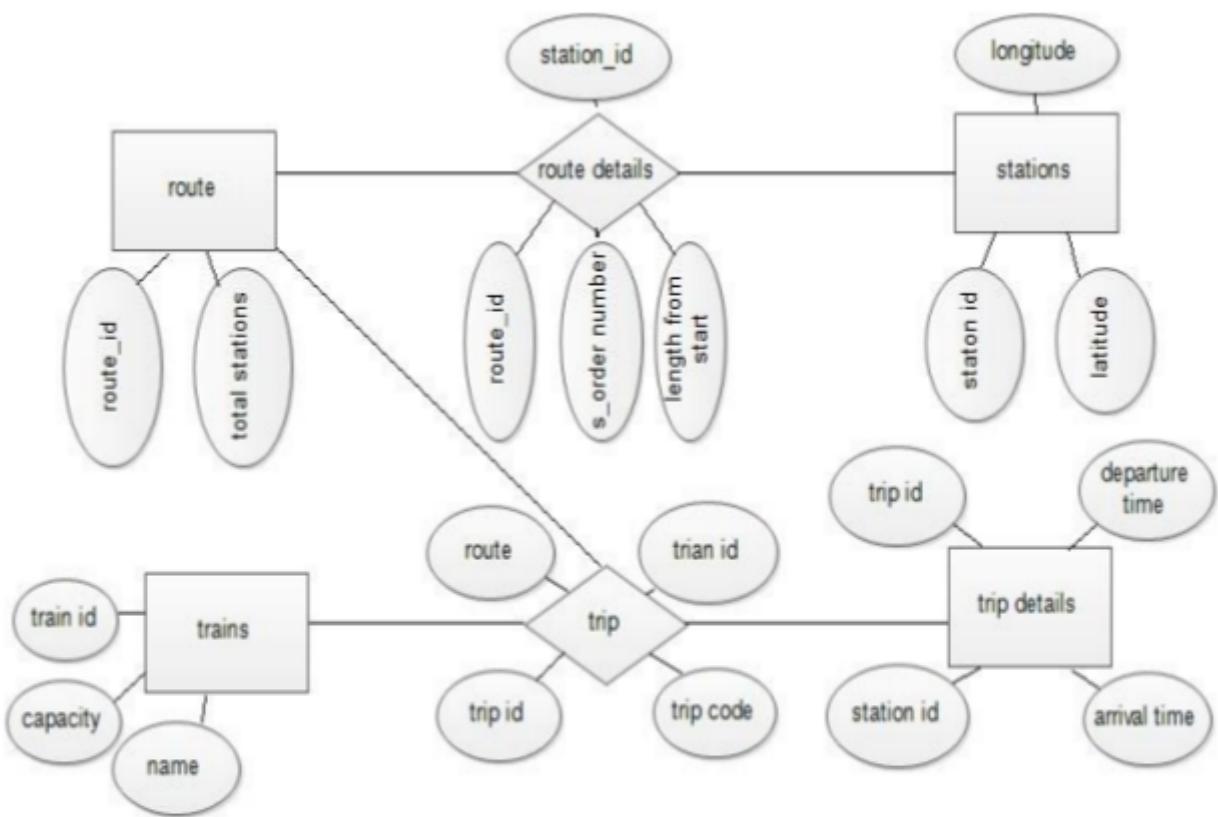


Fig 3.5.1 Route& Trip Management

3.6 Data Flow Diagram (DFD)

A Data Flow Diagram (DFD) is a structured analysis and design tool that can be used for flowcharting. A DFD is a network that describes the flow of data and the processes that change or transform the data throughout a system. This network is constructed by using a set of symbols that do not imply any physical implementation.

It has the purpose of clarifying system requirements and identifying major transformations. So it is the starting point of the design phase that functionally decomposes the requirements specifications down to the lowest level of detail. DFD can be considered to an abstraction of the logic of an information-oriented or a process-oriented system flow-chart. For these reasons DFD's are often referred to as logical data flow diagrams.

EXTERNAL ENTITY

An external entity is a source or destination of a data flow. Only those entities which originate or receive data are represented on a data flow diagram. The symbol used is a rectangular box.

PROCESS

A process shows a transformation or manipulation of data flow within the system. The symbol used is an oval shape.

DATAFLOW

The data flow shows the flow of information from a source to its destination. Data flow is represented by a line, with arrowheads showing the direction of flow. Information always flows to or from a process and may be written, verbal or electronic. Each data flow may be referenced by the processes or data stores at its head and tail, or by a description of its contents.

DATA STORE

A data store is a holding place for information within the system: It is represented by an open ended narrow rectangle. Data stores may be long-term files such as sales ledgers, or may be short-term accumulations: for example batches of documents that are waiting to be processed. Each data store should be given a reference followed by an arbitrary number.

DATA FLOW DIAGRAM FOR COMPLAINT MANAGEMENT SYSTEM

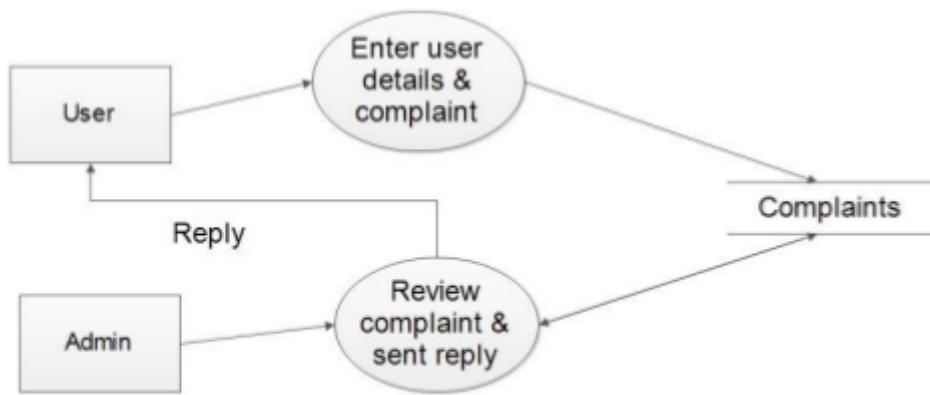
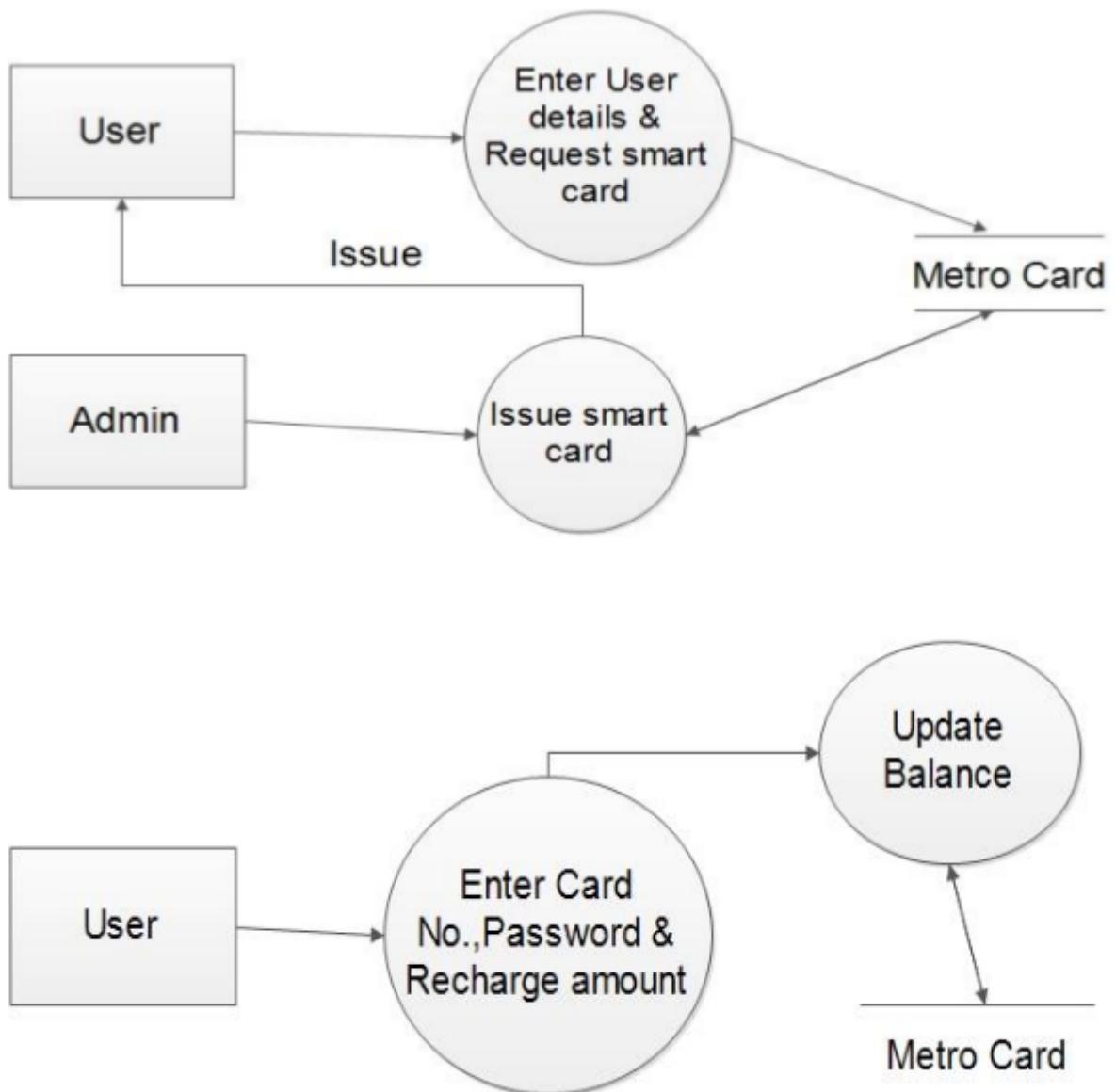
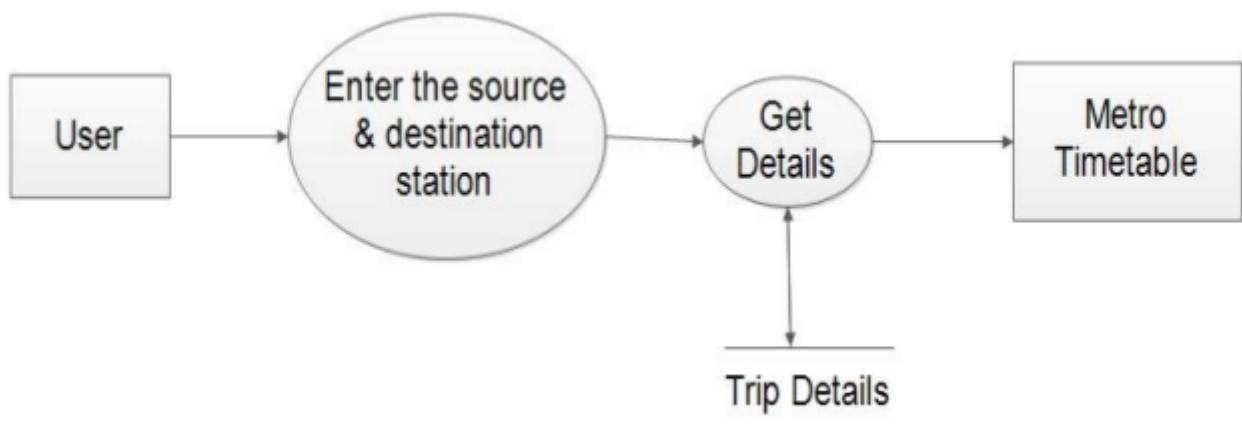


Fig 3.6.1 Complaint management system DFD

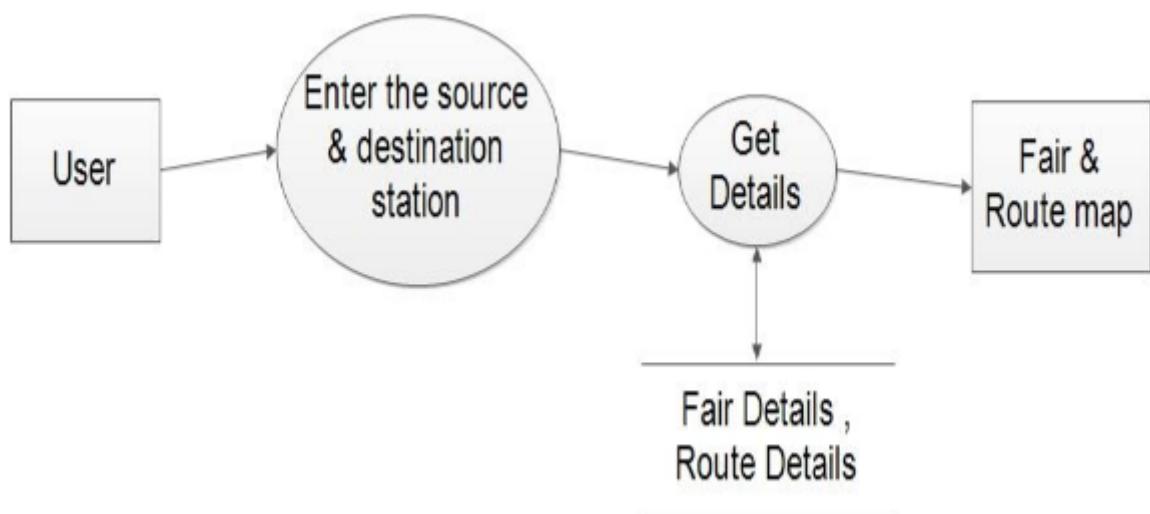
DATA FLOW DIAGRAM FOR ONLINE TICKET RECHARGE



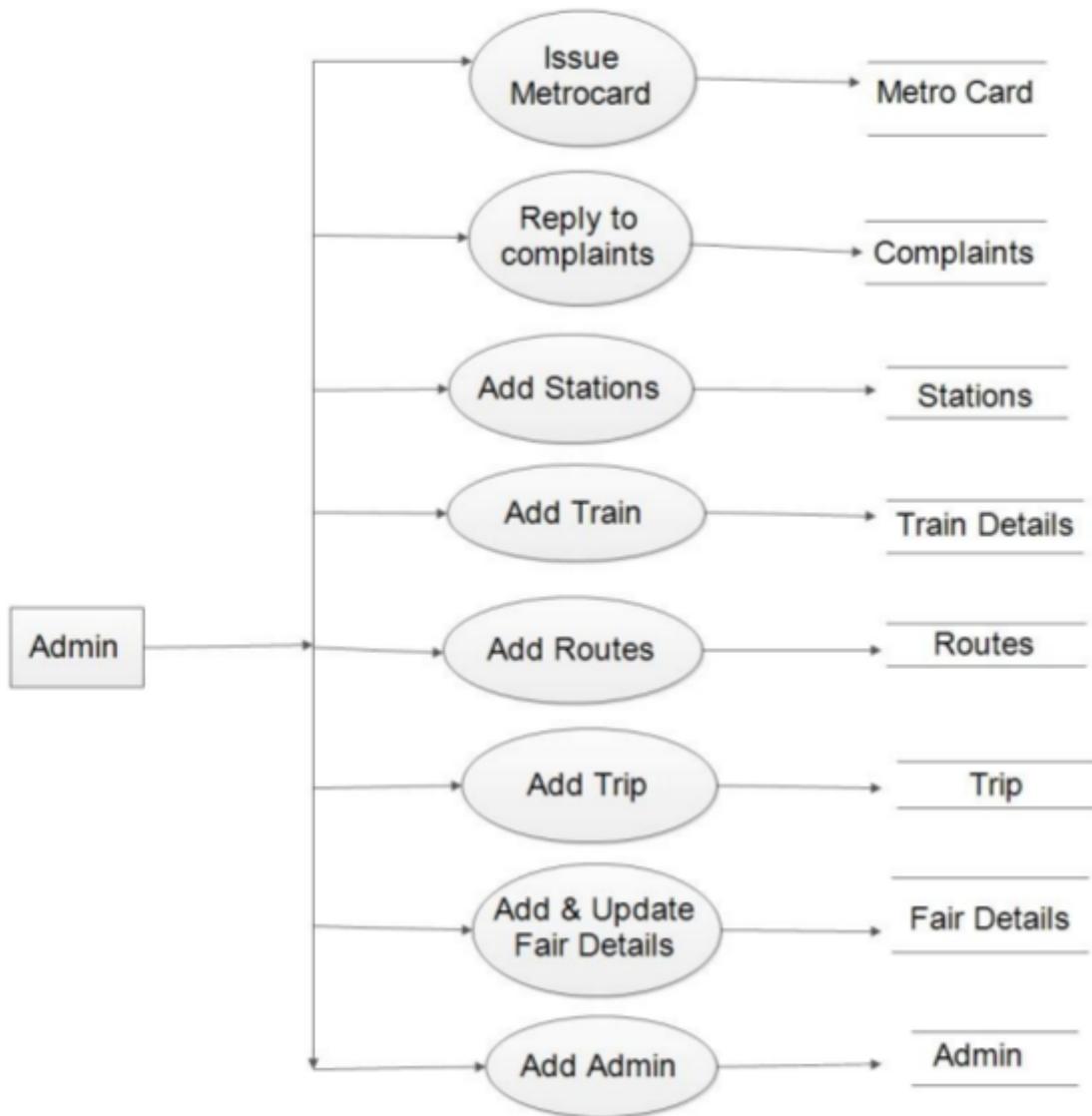
DATA FLOW DIAGRAM FOR METRO TIME TABLE



DATA FLOW DIAGRAM FOR FAIR & ROUTE MAP



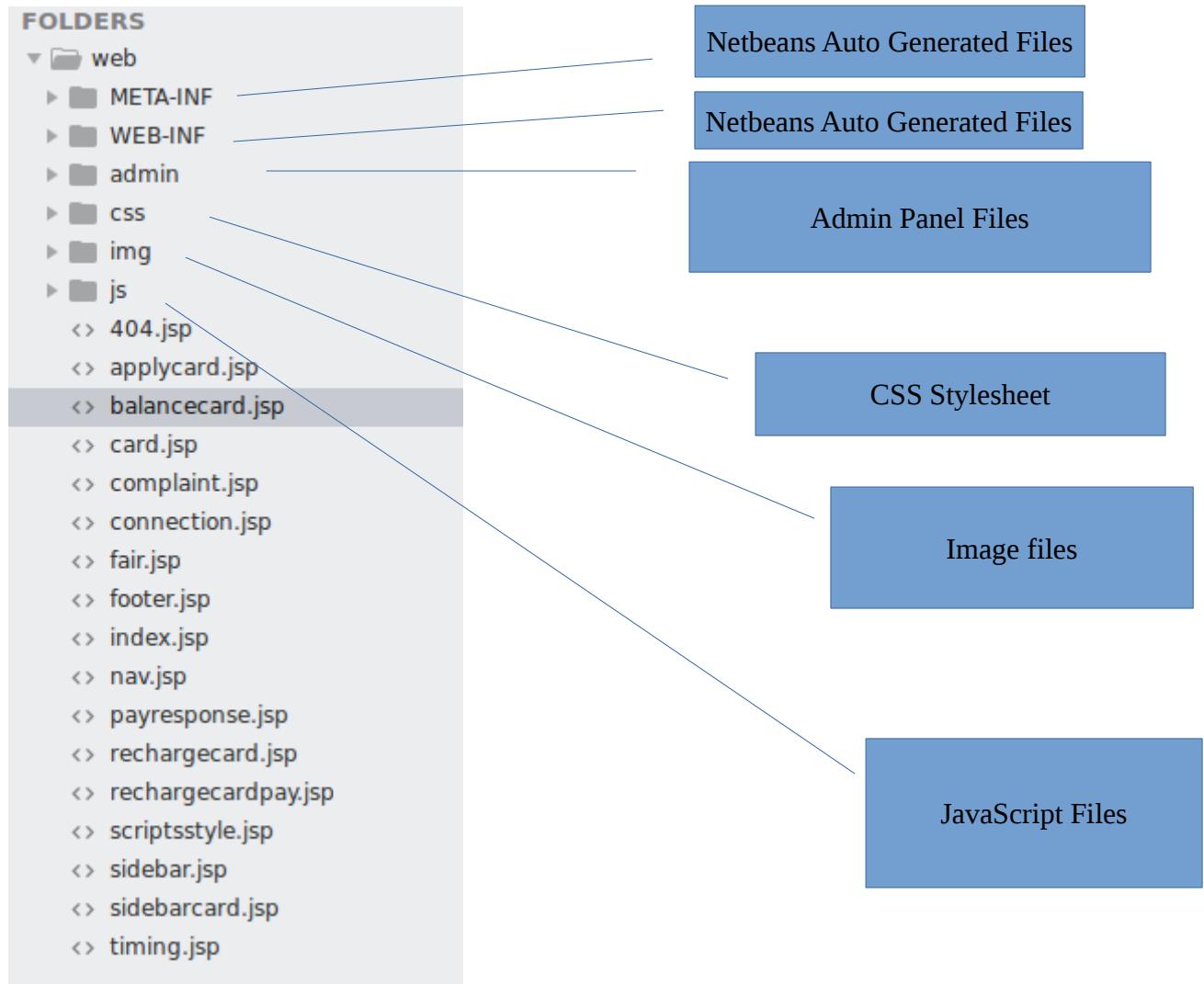
DATA FLOW DIAGRAM FOR ADMIN



Chapter 4

Program Code and Screenshots

Files and Directory Structure Tree



Front End Code HTML and JSP Embedded

index.jsp

Metro Rail

Home Complaints Timing Fair and Route Metro Card

Welcome To Metro Rail.

Stay in Touch!

METRORail moves along the street just like other vehicles.

The tracks are separated from the roadway by large raised white domes warning drivers to stay off the tracks. METRORail is very quiet. In fact, the trains are quieter than buses and most cars. So, whether you are riding METRORail, or just walking or driving near the trains and tracks, it is important to stay alert and follow the safety rules of METRORail.

Latest News

Code:

```
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<!Doctype html>
<html>
<head>
<title>Welcome To Metro Rail Portal</title>
<%! String pages="home"; %>
<!--=====Script and StyleSheet=====-->
<%@ include file="scriptsstyle.jsp" %>
    <jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<!--=====End Script and StyleSheet=====-->
</head>
<body>
<div class="container-fluid">
    <div class="row">
<!--=====Header=====-->
<%@ include file="nav.jsp" %>
<!--=====Header End=====-->
    </div>
<div class="row">
    <div class="col-lg-9">
        <main>
            <div class="homecontent">
                <h3>Welcome To Metro Rail.</h3>
                <p>METRORail moves along the street just like other vehicles.</p>
                <p> The tracks are separated from the roadway by large raised white domes  
warning drivers to stay off the tracks. METRORail is very quiet. In fact, the trains are  
quieter than buses and most cars. So, whether you are riding METRORail, or just  
walking or driving near the trains and tracks, it is important to stay alert and follow the  
safety rules of METRORail. </p>
            </div>
            <div class="homenews">
                <h3>
                    Latest News
                </h3>
                <marquee direction="up" scrolldelay="500" behavior=""scroll">
                    <p>MEGA invites bids for ?Design and Construction Underground Stations  
and Tunnels.</p>
                    <p>The Government of India has finalised a plan to augment and launch  
mass rapid transportation systems across 50 cities to minimise commuter woes.</p>
                </marquee>
            </div>
        </main>
    </div>
</div>
</body>
```

```
</div>
</main>
</div>
<div class="col-lg-3">
<%@ include file="sidebar.jsp" %>
</div>
</div>
<!-----Footer----->
<div class="row">
<%@ include file="footer.jsp" %>
</div>
<!-----Footer End----->
</div>
</body>
</html>
```

complaint.jsp

Metro Rail



Please fill this form to Submit your Complaint

Name

Email

Age

Phone

Address

Message

Stay in Touch!



We are interested to find out how people want to stay in touch with the project. If you have any comments, feedback or questions, please

submit

© MetroRail Project By Sanjeev

Code :

```
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
//JSP Beans File for Storing The Data in Database When User Submit the Form.
Boolean status = false;
if (request.getParameter("submit") != null) {
    String sql = "INSERT INTO `complaints`(`u_name`, `u_address`, `phone_num`,
`msg`, `email`, `age`, `status`) VALUES (" + request.getParameter("name") + ",'" +
request.getParameter("address") + "','" + request.getParameter("phone") + "','" +
request.getParameter("msg") + "','" + request.getParameter("email") + "','" +
request.getParameter("age") + "','"0')";
    if (obj.InsertData(sql)) {
        status = true;
    } else {
        status = false;
    }
}
%>

<!Doctype html>
<html>
<head>
    <title>Complaint System</title>
    <=====Script and StyleSheet=====>
    <%! String pages = "complaint";
%>
    <%@ include file="scriptsstyle.jsp" %>
    <=====End Script and StyleSheet=====>
</head>
<body>
    <div class="container-fluid">
        <div class="row">
            <=====Header=====>
            <%@ include file="nav.jsp" %>
            <=====Header End=====>
        </div>
        <div class="row">
            <div class="col-lg-9">
                <main>
                    <div class="homecontent">
                        <h3>Please fill this form to Submit your Complaint</h3>
                        <form action="" method="post">
                            <div class="form-group">
                                <label>Name</label>
                                <input type="text" required name="name" class="form-control" required>
                            </div>
                        </form>
                    </div>
                </main>
            </div>
        </div>
    </div>
</body>

```

```

<div class="form-group">
    <label>Email</label>
    <input type="text" required name="email" class="form-control" required>
</div>
<div class="form-group">
    <label>Age</label>
    <input type="text" required name="age" class="form-control" required>
</div>
<div class="form-group">
    <label>Phone</label>
    <input type="text" required name="phone" class="form-control" required>
</div>
<div class="form-group">
    <label>Address</label>
    <input type="text" required name="address" class="form-control" required>
</div>
<div class="form-group">
    <label>Message</label>
<textarea name="msg" rows="4" class="form-control" required></textarea>
</div>
<div class="form-group padding-label text-center" >
<%>
    if (request.getParameter("submit") != null) {
        if (status) {
<%>
<p class="alert alert-info ">Your Complaint Received Successfully!</p>
<% } else { %>
<p class="alert alert-danger">Error During Submitting Your Complaints!</p>
<% } } %>
</div>
</form>
</div>
</main>
</div>
<div class="col-lg-3" > <%@ include file="sidebar.jsp" %> </div>
</div>
<div class="row" > <%@ include file="footer.jsp" %> </div>
</div>
</body>
</html>

```

timing.jsp

Metro Rail

Home Complaints Timing Fair and Route Metro Card

QUALITY IS OUR COMMITMENT...

Time Table For Journey

Source Station :

Destination Station :

Find Trains

Stay in Touch!



We are interested to find out how people want to stay in touch with the project. If you have any comments, feedback or questions, please

© MetroRail Project By Sanjeev

Code :

```
<%@page import="java.util.ArrayList"%>
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    Boolean status = false;
    List<Map<String, String>> Trips = new ArrayList<Map<String, String>>();
    if (request.getParameter("submit") != null) {
        Trips = obj.fetchTrains(request.getParameter("source"),
            request.getParameter("destination"));
    }
    String pages = "timing";
%>

<!Doctype html>
<html>
    <head>
        <title>Metro Timing</title>
        <!--=====Script and StyleSheet=====-->
        <%@ include file="scriptsstyle.jsp" %>
        <!--=====End Script and StyleSheet=====-->
    </head>
    <body>
        <div class="container-fluid">
            <div class="row">
                <!--=====Header=====-->
                <%! String pages = "timing"; %>
                <%@ include file="nav.jsp" %>
                <!--=====Header End=====-->
            </div>
            <div class="row">
                <div class="col-lg-9">
                    <main><div class="homecontent">
                        <h3>Time Table For Journey </h3>
                        <form action="" method="post">
                            <div class="row form-group">
                                <div class="col-lg-3 col-xs-12 padding-label">
                                    <label class="control-label">Source Station : </label>
                                </div><div class="col-lg-3 col-xs-12">
                                    <input class="form-control input_auto_station" <% if
(request.getParameter("source") != null) {
            out.print("value=\"" + request.getParameter("source") + "\""); }%> required="required"
list="station" name="source" placeholder="Source Station" type="text">
                                    <datalist id="station"></datalist>
                                </div>
                            </div>
                        </form>
                    </div>
                </div>
            </div>
        </main>
    </body>
</html>
```

```

        </div>
    </div>
<div class="row form-group"> <div class="col-lg-3 col-xs-12 padding-label">
    <label class="control-label">Destination Station :</label>
</div> <div class="col-lg-3 col-xs-12">
    <input class="form-control input_auto_station" <% if
(request.getParameter("destination") != null) {
    out.print("value=\"" + request.getParameter("destination") + "\""); } %> required="required"
name="destination" list="station" placeholder="Destination Station" type="text">
    </div></div>
<div class="row form-group">
    <div class="col-lg-12 col-xs-12">
<input type="submit" value="Find Trains" name="submit" class="btn-success btn-block
btn">
    </div></div>
</form> </div>
<% if (request.getParameter("submit") != null) {
if (Trips.size() > 0) { %>
<div class="timingtable">
    <h4>List Of Trains </h4>
    <div class="row">
        <div class="col-lg-12">
            <div class="table-responsive">
                <table class="table table-striped table-bordered">
                    <thead>
                        <tr>
<th rowspan="2" style="text-align: center;vertical-align: middle;">Train No.</th>
                        <th colspan="2">Source </th>
                        <th colspan="2">Destination </th>
                    </tr>
                    <tr>
                        <th>Arrival</th>
                        <th>Departure</th>
                        <th>Arrival</th>
                        <th>Departure</th>
                    </tr>
                </thead><tbody>
                    <% for (int i = 0; i < Trips.size(); i++) {
Map<String, String> data = Trips.get(i);%>
                    <tr>
                        <td><%=data.get("train")%></td>
                        <td><%=data.get("sa_time")%></td>
                        <td><%=data.get("sd_time")%></td>
                        <td><%=data.get("ea_time")%></td>
                        <td><%=data.get("ed_time")%></td>
                    </tr>
                    <% } %>

```

```
        </tbody>
    </div> </div></div></div>
<% } else { %>
<p class="alert-danger alert">No Direct Trains Found</p>
<%}>
}%
</main>
</div>
<div class="col-lg-3">
    <%@ include file="sidebar.jsp" %>
</div>
</div>
<!--=====Footer=====-->
<div class="row">
    <%@ include file="footer.jsp" %>
</div>
<!--=====Footer End=====-->
</div>
</body>
</html>
```

Metro Rail

QUALITY IS OUR COMMITMENT...

Check Routes and Fairs of your Journey

Source Station : Dhanbad

Destination Station : Kumardhubi Market, Chirkun

Submit

Charges Detail : Rs. 35.00

Source : Dhanbad | Destination : Kumardhubi Market, Chirkunda, Jharkhand, India

Trip Routes

© MetroRail Project By Sanjeev

Stay in Touch!

We are interested to find out how people want to stay in touch with the project. If you have any comments, feedback or questions, please

Codes :

```
<%@page import="org.json.simple.JSONArray"%>
<%@page import="org.json.simple.JSONObject"%>
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    Boolean status = false;
    JSONObject TripDetails=new JSONObject();
    if (request.getParameter("submit") != null) {

TripDetails=obj.getTripDetails(request.getParameter("start"),request.getParameter("end"))
);
}
String pages="fair";
%>

<!Doctype html>
<html>
<head>
<title>Trip Fare</title>
<=====Script and StyleSheet=====>
<%@ include file="scriptsstyle.jsp" %>
<=====End Script and StyleSheet=====>
</head>
<body>
<div class="container-fluid">
    <div class="row">
<=====Header=====>
<%@ include file="nav.jsp" %>
<=====Header End=====>
    </div>
<div class="row">
    <div class="col-lg-9">
        <main>
            <div class="homecontent">
                <h3>Check Routes and Fairs of your Journey </h3>
                <form action="" method="post">
                    <div class="row form-group">
                        <div class="col-lg-3 col-xs-12 padding-label">
                            <label class="control-label">Source Station : </label>
                        </div>
```

```

<div class="col-lg-3 col-xs-12">
    <input class="form-control input_auto_station" list="station" <%
if(request.getParameter("start")!=null) { out.print("value='"+request.getParameter("start")
+"'); }%> name="start" placeholder="Source Station" type="text" required="required"
    <datalist id="station"></datalist>
</div>
</div>
<div class="row form-group">
    <div class="col-lg-3 col-xs-12 padding-label">
        <label class="control-label">Destination Station :</label>
    </div>
    <div class="col-lg-3 col-xs-12">
        <input class="form-control input_auto_station" <%
if(request.getParameter("end")!=null) { out.print("value='"+request.getParameter("end")
+"'); }%> list="station" name="end" placeholder="Destination Station" type="text"
required="required">
    </div>
</div>
<div class="row form-group">
    <div class="col-lg-12 col-xs-12">
        <input class="btn btn-block btn-success btn-block" name="submit"
placeholder="Destination Station" type="submit" value="Submit">
    </div>
</div>
</form>
</div>
<% if(request.getParameter("submit")!=null){
    if(TripDetails.size()>0) { %>
<div class="timingtable">
    <div class="row">
        <div class="col-lg-12">
            <p class="alert alert-warning text-center"><b>Charges Detail</b> : Rs. <
%=TripDetails.get("fair").toString() %>.00</p>
            <% if(request.getParameter("submit")!=null){ %>
                <p class="alert alert-success text-center"><b>Source : </b> : <
%=request.getParameter("start") %> | <b>Destination : </b> <
%=request.getParameter("end") %></p>
                <% } %>
            </div>
        </div>
        <div class="row">
            <div class="col-lg-12">
                <h3 class="route-h3">Trip Routes</h3>
            </div>
        </div>
    </div>
</div>

```

```

<div class="row">
    <div class="col-lg-12">
        <div id="map" style="height: 400px; width: 100%;"></div>
    </div>
</div>
<% } else { %>
<p class="alert alert-danger">Sorry No Trip Found for Selected Station</p>
<% } } %>
</main>
</div>
<div class="col-lg-3">
    <%@ include file="sidebar.jsp" %>
</div>
</div>
<!--Footer-->
<div class="row">
<%@ include file="footer.jsp" %>
</div>
<!--Footer End-->
<!--Maps Script-->
<% if(request.getParameter("submit")!=null)&
    if(TripDetails.size()>0){ %>

<script>
function initMap() {
    var locations = [];
    <%
        String allData="["+
        int loop=0;
        JSONArray jsons=(JSONArray)TripDetails.get("route");
        for(int i=0;i<jsons.size();i++) {
            JSONArray jsons2=(JSONArray)jsons.get(i);
            for(int k=0;k<jsons2.size();k++) {
                JSONObject Stations=(JSONObject)jsons2.get(k);
                allData+="\""+Stations.get("s_name")+"\", "+
                " "+Stations.get("latitude")+
                ", "+
                " "+Stations.get("longitude")+", "+
                "+loop+"]";
                loop++;
            } }
        allData=allData.substring(0, allData.length()-1);
        allData+="]"; %>
    locations=<%=allData%>;
}

```

```

var map = new google.maps.Map(document.getElementById('map'), {
  zoom: 8,
  center: new google.maps.LatLng(23.3441,85.3096),
  mapTypeId: google.maps.MapTypeId.ROADMAP
});
var infowindow = new google.maps.InfoWindow();
var marker, i;
for (i = 0; i < locations.length; i++) {
  marker = new google.maps.Marker({
    position: new google.maps.LatLng(locations[i][1], locations[i][2]),
    map: map
  });
  google.maps.event.addListener(marker, 'click', (function(marker, i) {
    return function() {
      infowindow.setContent(locations[i][0]);
      infowindow.open(map, marker);
    }
  })(marker, i));
}
var marker2 = new google.maps.Marker({
  position: new google.maps.LatLng(<%=TripDetails.get("start_lat")%>,<%=TripDetails.get("start_lng")%>),
  map: map,
  icon:'http://maps.google.com/mapfiles/ms/icons/blue-dot.png'
});
var marker3 = new google.maps.Marker({
  position: new google.maps.LatLng(<%=TripDetails.get("end_lat")%>,<%=TripDetails.get("end_lng")%>),
  map: map,
  icon:'http://maps.google.com/mapfiles/ms/icons/green-dot.png'
});
marker2.setAnimation(google.maps.Animation.BOUNCE);
marker3.setAnimation(google.maps.Animation.BOUNCE);
var infowindow2 = new google.maps.InfoWindow({
  content: "<p style='text-align:center;width: 78px;overflow: visible;'><b>Source :</b><br><%=request.getParameter("start") %></p>"
});
google.maps.event.addListener(marker2, 'click', (function() {
  infowindow2.open(map, marker2);
}()));
var infowindow3 = new google.maps.InfoWindow({
  content: "<p style='text-align:center;width: 78px;overflow: visible;'><b>Destination :</b><br><%=request.getParameter("end") %></p>"
});

```

```

google.maps.event.addListener(marker3, 'click', (function() {
    infowindow3.open(map, marker3);
}));
```

```

    infowindow3.open(map, marker3);
    infowindow2.open(map, marker2);
    var myTrip=new Array();
    for(var i=0;i<locations.length;i++){
        myTrip.push(new google.maps.LatLng(locations[i][1],locations[i][2]));
    }
    var flightPath=new google.maps.Polyline({
        path:myTrip,
        strokeColor:"#0000FF",
        strokeOpacity:1,
        strokeWeight:5
    });
    flightPath.setMap(map);

    }
</script>
<script src="https://maps.googleapis.com/maps/api/js?
key=AIzaSyBOXMZgliXGCdED6eey-Bh3FihccazcBvU&callback=initMap"></script>
<% } } %>
<!--=====End Maps Script=====-->
</div>
</body>
</html>

```



Metro Rail

Home Complaints Timing Fair and Route Metro Card

We Provide the following Metro Card Services

- Apply Metro Card
- Recharge Your Metro Card
- Balance Enquiry

Our Services!



Apply

Balance Enquiry

Recharge

© MetroRail Project By Sanjeev

Code :

```
<!Doctype html>
<html>
<head>
<title>Metro Card Service</title>
<!--Script and StyleSheet-->
>
<%@ include file="scriptsstyle.jsp" %>
<!--End Script and StyleSheet-->
</head>
<body>
<div class="container-fluid">
  <div class="row">
    <!--Header-->
    <%! String pages="card"; %>
    <%! String spages="card"; %>
    <%@ include file="nav.jsp" %>
    <!--Header End-->
  </div>
  <div class="row">
    <div class="col-lg-9">
      <main>
        <div class="homecontent" style="min-height: 405px;">
          <h3>We Provide the following Metro Card Services</h3>
          <ul class="card-content">
            <li>Apply Metro Card</li>
            <li>Recharge Your Metro Card</li>
            <li>Balance Enquiry</li>
          </ul>
        </div>
      </main>
    </div>
    <div class="col-lg-3">
      <%@ include file="sidebarcard.jsp" %>
    </div>
  </div>
  <!--Footer-->
  <div class="row">
    <%@ include file="footer.jsp" %>
  </div>
  <!--Footer End-->
</div>
</body>
</html>
```

applycard.jsp

Metro Rail



Apply Metro Card

Name

Password

Age

Phone

Email

Address

Our Services!



Apply

Balance Enquiry

Recharge

© MetroRail Project By Sanjeev

Code :

```
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    Boolean status = false;
    if (request.getParameter("submit") != null) {
        String sql = "INSERT INTO `metro_card`(`u_name`, `u_address`, `age`, `gender`,
`phone_num`, `email`, `password`, `card_status`) VALUES
        (""+request.getParameter("name")+"",""+request.getParameter("address")
+"",""+request.getParameter("age")+"",""+request.getParameter("gender")
+"",""+request.getParameter("phone")+"",""+request.getParameter("email")
+"",""+request.getParameter("password")+"','0')";
        if (obj.InsertData(sql)) {
            status = true;
        } else {
            status = false;
        }
    }
%>

<!Doctype html>
<html>
<head>
<title>Apply For Metro Card</title>
<=====Script and StyleSheet=====>
<%@ include file="scriptsstyle.jsp" %>
<=====End Script and StyleSheet=====>
</head>
<body>
<div class="container-fluid">
    <div class="row">
        <=====Header=====>
        <%! String pages="card"; %>
        <%! String spages="apply"; %>
        <%@ include file="nav.jsp" %>
        <=====Header End=====>
    </div>
    <div class="row">
        <div class="col-lg-9">
            <main>
```

```

<div class="homecontent">
    <form action="" method="post">
        <h3>Apply Metro Card</h3>
        <div class="form-group">
            <label>Name</label>
            <input type="text" name="name" class="form-control">
        </div>
        <div class="form-group">
            <label>Password</label>
            <input type="password" name="password" class="form-control">
        </div>
        <div class="form-group">
            <label>Age</label>
            <input type="text" name="age" class="form-control">
        </div>
        <div class="form-group">
            <label>Phone</label>
            <input type="text" name="phone" class="form-control">
        </div>
        <div class="form-group">
            <label>Email</label>
            <input type="text" name="email" class="form-control">
        </div>
        <div class="form-group">
            <label>Address</label>
            <textarea name="address" rows="4" class="form-control"></textarea>
        </div>
        <div class="form-group">
            <input type="submit" name="submit" class="btn btn-block btn-success" value="Apply">
        </div>
    </form>
    <div class="form-group">
        <% if (request.getParameter("submit") != null) {
            if (status) {
                out.println("<p class='alert alert-success'>Request for Metro Card Has been Accepted Successfully.</p>"); }
            else {
                out.println("<p class='alert alert-danger'>Failed To Process your Request for Metro Card! Contact Administrator.</p>"); } } %>
    </div>
    </div> </main> </div>
    <div class="col-lg-3"> <%@ include file="sidebarcard.jsp" %> </div>
</div>
<div class="row"> <%@ include file="footer.jsp" %> </div>
</div></body></html>

```

balancecard.jsp

Metro Rail

Home Complaints Timing Fair and Route Metro Card

QUALITY IS OUR COMMITMENT...

Check Your Current Metro Card Balance!

Card No.

Password

Balance Enquiry

Current Balance is Rs.220

Our Services!

Apply

Balance Enquiry

Recharge

© MetroRail Project By Sanjeev

Code :

```
ge import="java.util.ArrayList"%>
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    Boolean status = false;
    Boolean block=false;
    List<Map<String, String>> lists=new ArrayList<Map<String, String>>();
    if (request.getParameter("submit") != null) {
        String sql = "SELECT * FROM `metro_card` WHERE
`card_num`='"+request.getParameter("cardno")+"' and
`password`='"+request.getParameter("password")+"'";
        lists=obj.fetchAllData(sql);
        if (lists.size()>0) {
            if(Objects.equals(lists.get(0).get("card_status"), "0")){
                block=true;
            }
            status = true;
        } else {
            status = false;
        }
    }
%>
```

```
<!Doctype html>
<html>
<head>
<title>Check Your Card Balance</title>
<!--=====Script and StyleSheet=====-->
<%@ include file="scriptsstyle.jsp" %>
<!--=====End Script and StyleSheet=====-->
</head>
<body>
<div class="container-fluid">
    <div class="row">
        <!--=====Header=====-->
        <%! String pages="card"; %>
        <%! String spages="balance"; %>
        <%@ include file="nav.jsp" %>
        <!--=====Header End=====-->
    </div><div class="row">
        <div class="col-lg-9">
            <main>
                <div class="homecontent" style="min-height: 410px">
                    <form action="" method="post">
                        <h3>Check Your Current Metro Card Balance!</h3>
```

```

<div class="form-group">
    <label>Card No.</label>
    <input type="text" name="cardno" class="form-control">
</div>
<div class="form-group">
    <label>Password</label>
    <input type="password" name="password" class="form-control">
</div>
<div class="form-group">
    <input type="submit" name="submit" class="btn btn-block btn-success"
value="Balance Enquiry">
</div>
</form>
<div class="form-group">
<% if (request.getParameter("submit") != null) {
    if (status) {
        if(block){
            out.println("<p class='alert alert-danger'>Your Metro Card Has Been
Disabled! Contact Administrator</p>"); }
        else{
            out.println("<p class='alert alert-success'><b>Current Balance is </b>
Rs."+lists.get(0).get("balance")+"</p>"); }
    }
    else
    {
        out.println("<p class='alert alert-danger'>Invalid Password Or Metro
Card Does Not Exist</p>"); }
}
%>
</div>
</div>
</main>
</div>
<div class="col-lg-3">
<%@ include file="sidebarcard.jsp" %>
</div>
</div>
<=====Footer=====>
<div class="row">
<%@ include file="footer.jsp" %>
</div>
<=====Footer End=====>
</div>
</body>
59</html>

```

rechargecard.jsp

Metro Rail

Home Complaints Timing Fair and Route Metro Card



ITY IS OUR MENT...

Recharge Your Metro Card Online!

Card No.

Password

Recharge Amount

Recharge

Our Services!



Apply

Balance Enquiry

Recharge

© MetroRail Project By Sanjeev

Code :

```
<html>
<head>
<title>Recharge your Metro Card Online</title>
<!--=====Script and StyleSheet=====-->
<%@ include file="scriptsstyle.jsp" %>
<!=====End Script and StyleSheet=====>
</head>
<body>
<div class="container-fluid">
    <div class="row">
        <!=====Header=====-->
<%! String pages="card"; %>
<%! String spages="recharge"; %>
<%@ include file="nav.jsp" %>
<!=====Header End=====-->
    </div><div class="row">
        <div class="col-lg-9">
            <main>      <div class="homecontent" style="min-height: 410px">
                <form action="rechargecardpay.jsp" method="post">
                    <h3>Recharge Your Metro Card Online!</h3>
                    <div class="form-group">
                        <label>Card No.</label>
                        <input type="text" name="cardno" class="form-control">
                    </div>
                    <div class="form-group">
                        <label>Password</label>
                        <input type="password" name="password" class="form-control">
                    </div>
                    <div class="form-group">
                        <label>Recharge Amount</label>
                        <input type="text" name="amount" class="form-control">
                    </div>
                    <div class="form-group">
                        <input type="submit" name="name" class="btn btn-block btn-success"
value="Recharge">
                    </div>
                    <% if(request.getParameter("invalid")!=null) { %>
                    <div class="form-group">
                        <p class="alert alert-danger">Invalid Card Details! Try Again.</p>
                    </div>
                    <% } else if(request.getParameter("failed")!=null) { %>
                    <div class="form-group">
                        <p class="alert alert-danger">Failed To Reach Payment Server! Try
Again.</p> </div>
```

```

<% } else if(request.getParameter("already")!=null) {%
<div class="form-group">
    <p class="alert alert-danger">Your Metro Card Has Already Been
Recharged.</p>
</div>
<% } else if(request.getParameter("success")!=null) {%
<div class="form-group">
    <p class="alert alert-success">Your Metro Card Has Been Recharged
Successfully.</p>
</div>
<% } else if(request.getParameter("something")!=null) {%
<div class="form-group">
    <p class="alert alert-danger">Something Went Wrong Please Contact
Admin.</p>
</div>
<% } else if(request.getParameter("admin")!=null) {%
<div class="form-group">
    <p class="alert alert-info">Your payment has been Done.Please Contact
Admin for Update Your Balance Manually!</p>           </div>
<% } %>
</form>
</div>
</main>
</div>
<div class="col-lg-3">
    <%@ include file="sidebarcard.jsp" %>
</div>
</div>
<=====Footer=====>
<div class="row">
<%@ include file="footer.jsp" %>
</div>
<=====Footer End=====>
</div>
</body>
</html>

```

payment page

← Payment Links Send

Paying to
Sanjeev Kumar

Purpose of Payment
MetroCard

Amount
₹100

Select a Payment Method

DEBIT CARD

CREDIT CARD

NET BANKING

 **MasterCard.** SecureCode.  

Powered by 

MasterCard SecureCode - Payer Authentication - Mozilla Firefox Send

https://apijuspay.in/vbv/mc_secure

**MasterCard.
SecureCode.** 

Enter your password
Please enter your MasterCard SecureCode in the field below to confirm your identity for this purchase. This information is not shared with the merchant.

Merchant Name: local_remote_instamojo
Date: 26 Mar 2018

Total Charge: INR 100.0
Card Number: 4242-XXXXXXX-4242
Personal Message: We Understand Your World

Name:
Password: (forgot password? [Click Here](#))

Submit **Cancel**

This page will automatically timeout after 180 seconds.

Recharge

Your Metro Card Has Been Recharged Successfully.

PPN

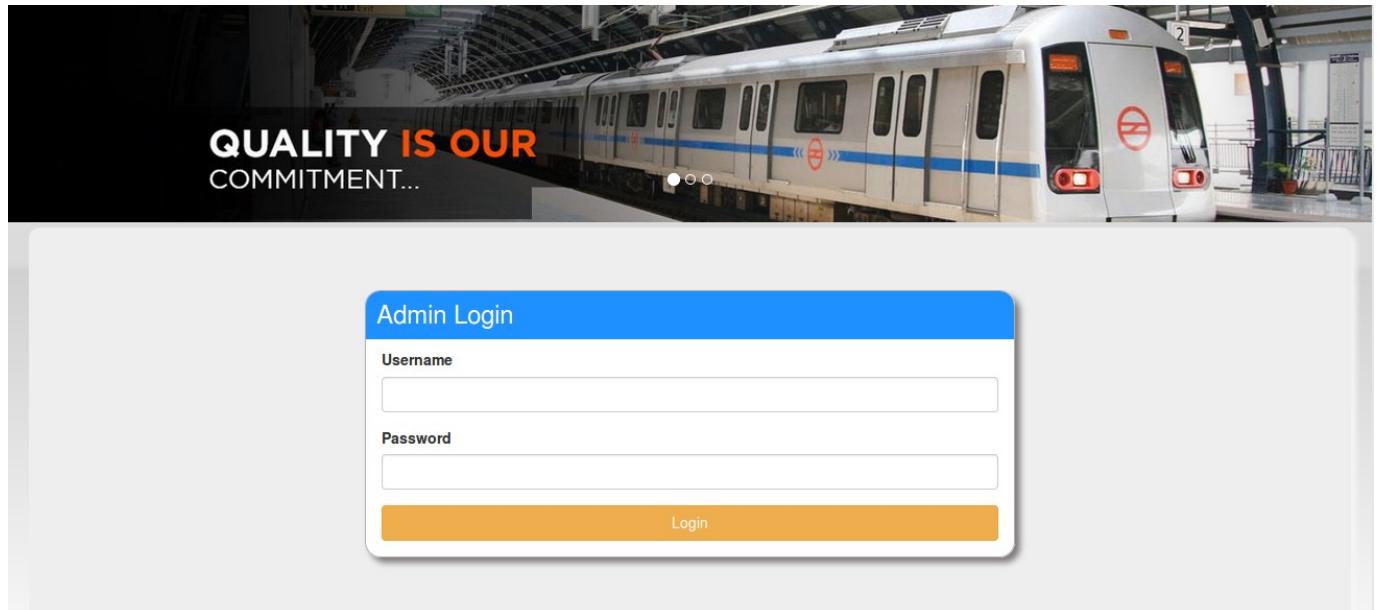
Balance Enquiry

Recharge

© MetroRail Project By Sanjeev

Admin Pages and Codes

admin/index.jsp



Code :

```
<%
if(session.getAttribute("email")!=null){
    String redirectURL = "adminhome.jsp";
    response.sendRedirect(redirectURL);
}
%>
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
Boolean status=false;
if(request.getParameter("submit")!=null){

    List<Map<String, String>> list= obj.fetchAllData("SELECT * FROM `admin` where
email='"+request.getParameter("email")+"' and
password='"+request.getParameter("password")+"'");
    if(list.size()>0){
        status=true;
        session.setAttribute("email",request.getParameter("email"));
        session.setAttribute("id",list.get(0).get("admin_id"));
    }else{
        status=false;
    }
}
%>

<!Doctype html>
<html>
<head>
<title>Admin Login</title>
<!--=====Script and StyleSheet=====-->
<%@ include file="adminscript.jsp" %>
<!--=====End Script and StyleSheet=====-->
</head>
<body>
<div class="container-fluid">
    <div class="row">
        <!--=====Header=====-->
        <%@ include file="adminnav.jsp" %>
        <!--=====Header End=====-->
    </div>
    <div class="row">
        <div class="col-lg-12">
            <main>
```

```

<div class="homecontent" style="min-height: 410px">
    <div class="col-lg-6 col-lg-offset-3 admin-form">
        <form action="" method="post">
            <h3>Admin Login</h3>
            <div class="form-group">
                <label>Username</label>
                <input type="text" name="email" class="form-control" required>
            </div>
            <div class="form-group">
                <label>Password</label>
                <input type="password" name="password" class="form-control" required>
            </div>
            <div class="form-group">
                <input type="submit" name="submit" class="btn btn-block btn-warning" value="Login">
            </div>
            <div class="form-group">
                <%
                    if(request.getParameter("submit")!=null){
                        if(status){
                            out.println("<p class='alert alert-success'>Login Successfully!
Redirecting...</p>");
                            out.println("<script>setTimeout(function()
{ location='adminhome.jsp'; },1000)</script>");
                        }else{
                            out.println("<p class='alert alert-danger'>Invalid Login Details!
</p>");}
                    }
                %>
            </div>
            </form>
        </div>
    </div>
</div>
<!-----Footer----->
<div class="row">
<%@ include file="adminfooter.jsp" %>
</div>
<!-----Footer End----->
</div>
</body>
</html>
66

```

Metro Rail

Home Complaints Timing Fair and Route Metro Card

Welcome Admin

Manage System

Total Station 14	Total Routes 2	Total Train 6
Total Complaints 7	Total Card Issues 2	Total Trips 4

Administrator

Dashboard

Manage Station
Manage Route
Manage Train
Manage Fair
Manage Admin
Manage Trip
Complaints
Metro Card
Logout

© MetroRail Project Admin Panel

Code :

```
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    Map<String, String> HomeData = obj.HomeDataCount();
    String pages="home";
%>
<%@include file="secure.jsp" %>

<!Doctype html>
<html>
<head>
<title>Admin Dashboard</title>
<!--Script and StyleSheet-->
<%@ include file="adminscript.jsp" %>
<!--End Script and StyleSheet-->
</head>
<body>
<div class="container-fluid">
    <div class="row">
        <!--Header-->
        <%@ include file="adminnav.jsp" %>
        <!--Header End-->
    </div>
    <div class="row">
        <div class="col-lg-9">
            <main>
                <div class="homecontent">
                    <h3>Welcome Admin</h3>
                    <div class="row">
                        <div class="col-lg-4">
                            <div class="admin-box red-bg"><h4 class="home-box-h4">Total
Station</h4><span class="home-box-span"><%=HomeData.get("station")
%></span></div>
                        </div> <div class="col-lg-4">
                            <div class="admin-box green-bg"><h4 class="home-box-h4">Total
Routes</h4><span class="home-box-span"><%=HomeData.get("route")
%></span></div> <div class="col-lg-4">
                            <div class="admin-box pink-bg"><h4 class="home-box-h4">Total
Train</h4><span class="home-box-span"><%=HomeData.get("trains")
%></span></div> <div class="col-lg-4">
                            <div class="admin-box orange-bg"><h4 class="home-box-h4">Total
Complaints</h4><span class="home-box-span"><%=HomeData.get("complaints")
%></span></div>
                </div>
            </main>
        </div>
    </div>
</div>
```

```

<div class="col-lg-4">
    <div class="admin-box blue-bg"><h4 class="home-box-h4">Total Card
Issues</h4><span class="home-box-span"><%=HomeData.get("metro_card")
%></span></div>
</div>
<div class="col-lg-4">
    <div class="admin-box purple-bg"><h4 class="home-box-h4">Total
Trips</h4><span class="home-box-span"><%=HomeData.get("trip") %></span></div>
</div>

</div>

</main>
</div>
<div class="col-lg-3">
    <%@ include file="adminsidebar.jsp" %>
</div>
</div>
<!=====Footer=====-->
<div class="row">
<%@ include file="adminfooter.jsp" %>
</div>
<!=====Footer End=====-->
</div>
</body>
</html>

```

Metro Rail

QUALITY IS OUR COMMITMENT...

Add Station

Station Name :

Latitude :

Longitude :

Add Station

List Of Stations

Station Id	Station Name	Latitude	Longitude	Action
1	Dhanbad	23.7957	86.4304	Edit
3	Kumardhubi Market, Chirkunda, Jharkhand, India	23.7465	86.784	Edit
4	Mugma, Jharkhand, India	23.7727	86.7322	Edit
5	Nirsa, Jharkhand, India	23.7848	86.7039	Edit
6	Gobindpur, Jharkhand, India	23.8343	86.5224	Edit
7	Bokaro Steel City, Jharkhand, India	23.6693	86.1511	Edit
8	Gomoh, Jharkhand, India	23.8608	86.1598	Edit
9	Katras, Jharkhand, India	23.8081	86.292	Edit
10	Muri, Jharkhand, India	23.3784	85.8614	Edit
11	Ranchi, Jharkhand, India	23.3441	85.3096	Edit
12	Chirkunda, Jharkhand, India	23.7479	86.7869	Edit
14	Maithon Dam, Kenjapahar Ist part al, Jharkhand	23.8503	86.7778	Edit
15	Junkudar, Jharkhand, India	23.7253	86.7705	Edit

© MetroRail Project Admin Panel

Home Complaints Timing Fair and Route Metro Card

Manage System

Administrator

Dashboard

Manage Station

Manage Route

Manage Train

Manage Fair

Manage Admin

Manage Trip

Complaints

Metro Card

Logout

Code :

```
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<%@include file="secure.jsp" %>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    Boolean status = false;
    if (request.getParameter("submit") != null) {
        String sql = "INSERT INTO `station`(`s_name`, `latitude`, `longitude`) VALUES (" +
        request.getParameter("name") + ",'" + request.getParameter("lat") + "','" +
        request.getParameter("lng") + ")";
        if (obj.InsertData(sql)) {
            status = true;
        } else {
            status = false;
        }
    }
    List<Map<String, String>> list = obj.fetchAllData("select * from station");
    String pages="station";
%>
```

```
<!Doctype html>
<html>
    <head>
        <title>Manage Station</title>
        <=====Script and StyleSheet=====>
        <%@ include file="adminscript.jsp" %>
        <=====End Script and StyleSheet=====>
    </head> <body>
        <div class="container-fluid">
            <div class="row">
                <=====Header=====>
                <%@ include file="adminnav.jsp" %>
                <=====Header End=====>
            </div>
            <div class="row">
                <div class="col-lg-9">
                    <main>
                        <div class="homecontent">
                            <h3>Add Station</h3>
                            <form action="" method="post">
                                <div class="row form-group">
                                    <div class="col-lg-3 col-xs-12 padding-label">
                                        <label class="control-label">Station Name. : </label>
                                    </div>
                                    <div class="col-lg-3 col-xs-12">
<input class="form-control" name="name" placeholder="Station Name" id="name" type="text" required>
```

```

</div>
<div class="row form-group">
<div class="col-lg-3 col-xs-12 padding-label">
    <label class="control-label">Latitude :</label>
</div>
<div class="col-lg-3 col-xs-12">
    <input class="form-control" id="lat" name="lat"
placeholder="Latitude" type="text" required>
    </div>
</div>
<div class="row form-group">
<div class="col-lg-3 col-xs-12 padding-label">
    <label class="control-label">Longitude :</label>
</div>
<div class="col-lg-3 col-xs-12">
    <input class="form-control" name="lng" id="lng"
placeholder="Longitude" type="text" required>
    </div>
</div>
<div class="row form-group">
<div class="col-lg-12">
    <input class="btn btn-success btn-block" type="submit"
name="submit" value="Add Station">
    </div>
</div>
<div class="form-group">
<%           if (request.getParameter("submit") != null) {
            if (status) {
                out.println("<p class='alert alert-success'>Added
Successfully.</p>");

            } else {
                out.println("<p class='alert alert-danger'>Error During
Adding Station.</p>");

            }
        }
%>
</div>
</form>
</div>

```

```

<div class="timingtable">
    <h4>List Of Stations </h4>
    <div class="row">
        <div class="col-lg-12">
            <div class="table-responsive">
                <table class="table table-striped table-bordered">
                    <thead>
                        <tr>
                            <th>Station Id</th>
                            <th>Station Name</th>
                            <th>Latitude</th>
                            <th>Longitude</th>
                            <th>Action</th>
                        </tr>
                    </thead>
                    <tbody>
                        <%
                            for (int i = 0; i < list.size(); i++) {
                                Map hashmap = list.get(i);
                                out.println("<tr>" +
                                           + "<td data-name='id'" + hashmap.get("id") +
                                           " </td>" +
                                           hashmap.get("s_name") + "</td>" +
                                           + "<td data-name='lat'" + +
                                           + "<td data-name='lng'" + +
                                           hashmap.get("longitude") + "</td>" +
                                           + "<td data-name='ids'" + <button class='edit-station btn btn-warning' data-id=" + hashmap.get("id") + ">Edit</button></td>" +
                                           + "</tr>");

                            }
                        %>
                    </tbody>
                </table>
            </div>
        </div>
    </div>
</main>

```

```

</div>
<div class="col-lg-3">
    <%@ include file="adminsidebar.jsp" %>
</div>
</div>

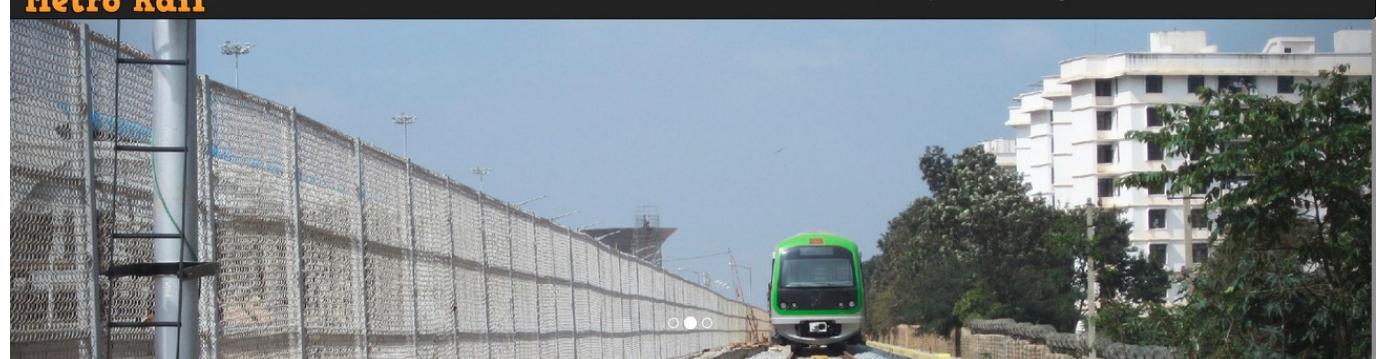
<!-----Footer----->
<div class="row">
    <%@ include file="adminfooter.jsp" %>
</div>
<!-----Footer End----->
<!-----Auto Complete Search----->
<script src="https://maps.googleapis.com/maps/api/js?
v=3.exp&libraries=places&key=AIzaSyBC5nTK6ceisjf7LHiSlKShdsH11fGsE2I"></scr
ipt>
<script>
    var autocomplete;
    function initialize() {
        var input = document.getElementById('name');
        autocomplete = new google.maps.places.Autocomplete(input);
        autocomplete.addListener('place_changed', function () {
            getGeo();
        });
    }

    function getGeo() {
        var place = autocomplete.getPlace();
        var lat = place.geometry.location.lat();
        var lng = place.geometry.location.lng();
        document.getElementById("lat").value = lat;
        document.getElementById("lng").value = lng;
    }

    google.maps.event.addDomListener(window, 'load', initialize);
</script>
<!-----End Auto Complete----->
</div>
</body>
</html>

```

Metro Rail



Add Route

Route Name. :

Station	Position	Distance	Action
Dhanbad	<input type="text" value="Position"/>	<input type="text" value="Distance"/>	<button>Delete</button>

[Add Station](#) [Add Route](#)

List Of All Routes

Route Id	Routes Name	No. of Station	Action
1	first	8	<button>Edit</button>
2	second	6	<button>Edit</button>

Manage System

Administrator

- Dashboard
- Manage Station
- Manage Route
- Manage Train
- Manage Fair
- Manage Admin
- Manage Trip
- Complaints
- Metro Card
- Logout

75

Code :

```
<%@page import="java.util.ArrayList"%>
<%@page import="java.math.BigDecimal"%>
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<%@include file="secure.jsp" %>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
Boolean status = false;
if (request.getParameter("submit")!= null) {
    String[] station=request.getParameterValues("station[]");
    String[] pos=request.getParameterValues("pos[]");
    String[] dis=request.getParameterValues("dis[]");
    String r_name=request.getParameter("route");
    BigDecimal ids=obj.InsertDataWithId("INSERT INTO `route`(`r_name`) VALUES
    ("+r_name+"));
    //out.println("Big id"+ids);
    for(int i=0;i<station.length;i++){
        String sql = "INSERT INTO `route_details`(`route_id`, `station_id`, `s_order_num`,
        `length_from_start`) VALUES ("+ids+","+station[i]+","+pos[i]+","+dis[i]+")";
        if (obj.InsertData(sql)) {
            status = true;
        } else {
            status = false;
        }
    }
}
List<Map<String, String>> list = obj.fetchAllData("select * from station");
String pages="route";
List<Map<String, String>> allroutes=obj.fetchAllData("select * from route");
List<Map<String, String>> newRoutes=new ArrayList<Map<String, String>>();
for(int i=0;i<allroutes.size();i++){
    Map hashmap1=allroutes.get(i);
    List<Map<String, String>> allstations=obj.fetchAllData("select * from route_details
where route_id='"+hashmap1.get("id")+"'");
    hashmap1.put("count",allstations.size());
    newRoutes.add(hashmap1);
}
%>
```

```

<!Doctype html>
<html>
<head>
<title>Manage Routes</title>
<!--Script and StyleSheet-->
<%@ include file="adminscript.jsp" %>
<!--End Script and StyleSheet-->
</head>
<body>
<div class="container-fluid">
    <div class="row">
        <!--Header-->
        <%@ include file="adminnav.jsp" %>
        <!--Header End-->
    </div>
    <div class="row">
        <div class="col-lg-9">
            <main>
                <div class="homecontent">
                    <form action="" method="post">
                        <h3>Add Route</h3>
                        <div class="row form-group">
                            <div class="col-lg-3 col-xs-6 padding-label">
                                <label class="control-label">Route Name. : </label>
                            </div>
                            <div class="col-lg-3 col-xs-6">
                                <input class="form-control" name="route" placeholder="Route Name." type="text">
                            </div>
                        </div>
                        <div class="table-responsive">
                            <table class="table table-bordered table-striped table-routes">
                                <tr>
                                    <th>Station</th>
                                    <th>Position</th>
                                    <th>Distance</th>
                                    <th>Action</th>
                                </tr>

```

```

<tr>
    <td>
        <select class="form-control" name="station[]">
            <% for(int i=0;i<list.size();i++) {
                Map hashmap=list.get(i);
                out.println("<option value='"+hashmap.get("id")
                +"'>"+hashmap.get("s_name")+"</option>"); %>
            }
        </select>
    </td>
    <td><input type="text" class="form-control" placeholder="Position"
name="pos[]"></td>
    <td><input type="text" class="form-control" placeholder="Distance"
name="dis[]"></td>
    <td><button class="btn btn-danger btn-block btn-delete-station">Delete
</button></td>
</tr>
</table>
</div>
<div class="row form-group">
    <div class="col-lg-6">
        <button class="btn btn-success btn-block btn-add-station-routes"
type="button">Add Station</button>
    </div>

    <div class="col-lg-6">
        <input class="btn btn-success btn-block" type="submit" value="Add Route"
name="submit"/>
    </div>
</div>
<div class="form-group">
    <% if (request.getParameter("submit") != null) {
        if (status) {
            out.println("<p class='alert alert-success'>Added
Successfully.</p>");

        } else {
            out.println("<p class='alert alert-danger'>Error During
Adding Routes.</p>");

        }
    }
    %>
</div>
</form>
</div>

```

```

<div class="timingtable">
    <h4>List Of All Routes </h4>
    <div class="row">
        <div class="col-lg-12">
            <div class="table-responsive">
                <table class="table table-striped table-bordered">
                    <thead>
                        <tr>
                            <th>Route Id</th>
                            <th>Routes Name</th>
                            <th>No. of Station</th>
                            <th>Action</th>
                        </tr>
                    </thead>
                    <tbody>
                        <%
                        for(int i=0;i<newRoutes.size();i++){
                            Map hashmaps=newRoutes.get(i);

                            out.println("<tr>" +
                                "<td>" + hashmaps.get("id") + "</td>" +
                                "<td>" + hashmaps.get("r_name") + "</td>" +
                                "<td>" + hashmaps.get("count") + "</td>" +
                                "<td><button class='btn-edit-routes btn btn-warning' data-
id='"++hashmaps.get("id")+">Edit</button></td>" +
                                "</tr>");
                        }
                        %>
                    </tbody>
                </table>
            </div>
        </div>
    </div>
</div>
<div class="col-lg-3">
    <%@ include file="adminsidebar.jsp" %>
</div>
</div>
<div class="row">
    <%@ include file="adminfooter.jsp" %>
</div>
</div>
</body>
79</html>

```

Metro Rail

QUALITY IS OUR COMMITMENT...

Add Route

Route Name. :

Station	Position	Distance	Action
Chirkunda, Jharkhand, India	1	0	Delete
Kumardhubi Market, Chirkunda, Jharkhand, India	2	5	Delete
Mugma, Jharkhand, India	3	4	Delete
Nirsa, Jharkhand, India	4	15	Delete
Gobindpur, Jharkhand, India	5	30	Delete
Dhanbad	6	45	Delete
Muri, Jharkhand, India	7	150	Delete
Ranchi, Jharkhand, India	8	220	Delete

[Add Station](#) [Edit Route](#)

Manage System

Administrator

[Dashboard](#)

[Manage Station](#)

[Manage Route](#)

[Manage Train](#)

[Manage Fair](#)

[Manage Admin](#)

[Manage Trip](#)

[Complaints](#)

[Metro Card](#)

[Logout](#)

© MetroRail Project Admin Panel

Code :

```
<%@page import="java.util.ArrayList"%>
<%@page import="java.math.BigDecimal"%>
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<%@include file="secure.jsp" %>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
Boolean status = false;
if (request.getParameter("submit")!= null) {
    String[] station=request.getParameterValues("station[]");
    String[] pos=request.getParameterValues("pos[]");
    String[] dis=request.getParameterValues("dis[]");
    String r_name=request.getParameter("route");
    BigDecimal ids=obj.InsertDataWithId("UPDATE `route` SET
`r_name`='"+r_name+"' WHERE id='"+request.getParameter("id")+"'");
    //out.println("Big id"+ids);
    obj.InsertData("DELETE from route_details where
route_id='"+request.getParameter("id")+"'");
    for(int i=0;i<station.length;i++){
        String sql = "INSERT INTO `route_details`(`route_id`, `station_id`, `s_order_num`,
`length_from_start`) VALUES (""+request.getParameter("id")+"','"++station[i]+","+pos[i]
+", '"+dis[i]+"')";
        if (obj.InsertData(sql)) {
            status = true;
        } else {
            status = false;
        }
    }
}
List<Map<String, String>> list = obj.fetchAllData("select * from station");
String pages="route";
List<Map<String, String>> allroutes=obj.fetchAllData("select * from route where
id='"+request.getParameter("id")+"'");
if(allroutes.size()<=0){
    response.sendRedirect("route.jsp");
}
List<Map<String, String>> allstations=obj.fetchAllData("select * from route_details
where route_id='"+request.getParameter("id")+"');");
%>
```

```

<!Doctype html>
<html>
<head>
    <meta charset="utf-8">
<title>Edit Routes</title>
<!--Script and StyleSheet-->
<%@ include file="adminscript.jsp" %>
<!--End Script and StyleSheet-->
</head>
<body>
<div class="container-fluid">
    <div class="row">
<!--Header-->
<%@ include file="adminnav.jsp" %>
<!--Header End-->
    </div>
<div class="row">
    <div class="col-lg-9">
        <main>
            <div class="homecontent">
                <form action="" method="post">
                    <h3>Edit Route</h3>
                    <div class="row form-group">
                        <div class="col-lg-3 col-xs-6 padding-label">
                            <label class="control-label">Route Name. : </label>
                        </div>
                        <div class="col-lg-3 col-xs-6">
                            <input type="hidden" name="ids" value="<%=request.getParameter("id")%>">
                            <input class="form-control" name="route" placeholder="Route Name." type="text" value="<%="allroutes.get(0).get("r_name")%>">
                        </div>
                    </div>
                    <div class="table-responsive">
                        <table class="table table-bordered table-striped table-routes">
                            <tr>
                                <th>Station</th>
                                <th>Position</th>
                                <th>Distance</th>
                                <th>Action</th>
                            </tr>
                            <%
                                for(int k=0;k<allstations.size();k++) {
                                    Map routemap=allstations.get(k);
                            %>

```

```

<tr>
    <td>
        <select class="form-control" name="station[]>

            <% for(int i=0;i<list.size();i++) {
                Map hashmap=list.get(i);
                if(Objects.equals(hashmap.get("id"),routemap.get("station_id"))){
                    out.println("<option value='"+hashmap.get("id")+""
selected>"+hashmap.get("s_name")+"</option>");

                }else{
                    out.println("<option value='"+hashmap.get("id")+
""">"+hashmap.get("s_name")+"</option>");

                }
            %>
        </select>
    </td>
    <td><input type="text" class="form-control" placeholder="Position"
name="pos[]" value=<%=routemap.get("s_order_num") %>></td>
    <td><input type="text" class="form-control" placeholder="Distance"
name="dis[]" value=<%=routemap.get("length_from_start") %>></td>
    <td><button class="btn btn-danger btn-block btn-delete-station">Delete
</button></td>
    </tr>
    <%
    }
    %>
</table>
</div>
<div class="row form-group">
    <div class="col-lg-6">
        <button class="btn btn-success btn-block btn-add-station-routes"
type="button">Add Station</button>
    </div>

    <div class="col-lg-6">
        <input class="btn btn-success btn-block" type="submit" value="Edit Route"
name="submit"/>
    </div>
</div>

```

```

<div class="form-group">
    <% if (request.getParameter("submit") != null) {
        if (status) {
            out.println("<p class='alert alert-success'>Updated
Successfully.</p>");

        } else {
            out.println("<p class='alert alert-danger'>Error During
Updating Routes.</p>");
        }
    } %>
</div>
</form>
</div>
</main>
</div>
<div class="col-lg-3">
    <%@ include file="adminsidebar.jsp" %>
</div>
</div>
<!--=====Footer=====-->
<div class="row">
<%@ include file="adminfooter.jsp" %>
</div>
<!--=====Footer End=====-->
</div>
</body>
</html>

```

Metro Rail



● ● ○

QUALITY IS OUR COMMITMENT...

Add Train

Train No. :

Capacity :

Add Train

List Of Trains

Train Id	Train No.	Capacity	Action
1	abc123	100	Edit
2	abc456	80	Edit
3	abc789	120	Edit
4	abc741	90	Edit
5	abc852	70	Edit
6	abc963	65	Edit

Manage System

Administrator

Dashboard

Manage Station

Manage Route

Manage Train

Manage Fair

Manage Admin

Manage Trip

Complaints

Metro Card

Logout

© MetroRail Project Admin Panel

Code :

```
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<%@include file="secure.jsp" %>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    Boolean status = false;
    if (request.getParameter("submit") != null) {
        String sql = "INSERT INTO `trains`(`train_no`, `capacity`) VALUES (" +
        request.getParameter("trainno") + "," + request.getParameter("cap") + ")";
        if (obj.InsertData(sql)) {
            status = true;
        } else {
            status = false;
        }
    }
    List<Map<String, String>> list = obj.fetchAllData("select * from trains");
    String pages="train";
%>

<!Doctype html>
<html>
<head>
<title>Manage Train</title>
<=====Script and StyleSheet=====>
<%@ include file="adminscript.jsp" %>
<=====End Script and StyleSheet=====>
</head>
<body>
<div class="container-fluid">
    <div class="row">
<=====Header=====>
<%@ include file="adminnav.jsp" %>
<=====Header End=====>
    </div>
    <div class="row">
        <div class="col-lg-9">
            <main>
                <div class="homecontent">
                    <h3>Add Train</h3>
                    <form action="" method="post">
                        <div class="row form-group">
                            <div class="col-lg-3 col-xs-12 padding-label">
                                <label class="control-label">Train No. : </label>
                            </div>
```

```

<div class="col-lg-3 col-xs-12">
    <input class="form-control" name="trainno" placeholder="Train No."
type="text" required>
</div>
</div>
<div class="row form-group">
    <div class="col-lg-3 col-xs-12 padding-label">
        <label class="control-label">Capacity :</label>
    </div>
    <div class="col-lg-3 col-xs-12">
        <input class="form-control" name="cap" placeholder="Capacity" type="text"
required>
        </div>
    </div>
<div class="row form-group">
    <div class="col-lg-12">
        <input type="submit" value="Add Train" name="submit" class="btn btn-
success btn-block">
    </div>
</div>
<div class="form-group">
    <% if (request.getParameter("submit") != null) {
        if (status) {
            out.println("<p class='alert alert-success'>Added Successfully.</p>");
        } else {
            out.println("<p class='alert alert-danger'>Error During Adding
Station.</p>");
        }
    }
    %>
</div>
</form>
</div>
<div class="timingtable">
    <h4>List Of Trains </h4>
    <div class="row">
        <div class="col-lg-12">
            <div class="table-responsive">
                <table class="table table-striped table-bordered">
                    <thead>
                        <tr>
                            <th>Train Id</th>
                            <th>Train No.</th>
                            <th>Capacity</th>
                            <th>Action</th>
                        </tr>
                    </thead>
                    <tbody>

```

```

<%
    for (int i = 0; i < list.size(); i++) {
        Map hashmap = list.get(i);
        out.println("<tr>" +
                    + "<td data-name='id'>" + hashmap.get("id") +
                    + "<td data-name='train_no'>" +
                    + "<td data-name='capacity'>" +
                    + "<td data-name='ids'><button class='edit-train
btn btn-warning'data-id=" + hashmap.get("id") + "">Edit</button></td>" +
                    + "</tr>");

    }
%>
</tbody>
</table>
</div>
</div>
</div>
</div>
</main>
</div>
<div class="col-lg-3">
    <%@ include file="adminsidebar.jsp" %>
</div>
</div>
<!--=====Footer=====-->
<div class="row">
    <%@ include file="adminfooter.jsp" %>
</div>
<!--=====Footer End=====-->
</div>
</body>
</html>

```

admin/fair.jsp

Metro Rail

QUALITY IS OUR COMMITMENT...

Add Fair

Charges : Charge Unit

Minimum Distance : Minimum Distance

Maximum Distance : Maximum Distance

Add Fair

List Of All Fairs

Fair Id	Charges	Minimum Distance	Maximum Distance	Action
1	10	0	10	Edit
2	20	10	20	Edit
3	30	20	30	Edit
4	40	30	40	Edit
5	50	50	200	Edit
6	60	200	300	Edit
7	100	300	500	Edit
8	150	500	1000	Edit
9	35	40	50	Edit

© MetroRail Project Admin Panel

Manage System

Administrator

Dashboard

Manage Station

Manage Route

Manage Train

Manage Fair

Manage Admin

Manage Trip

Complaints

Metro Card

Logout

Code :

```
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<%@include file="secure.jsp" %>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    Boolean status = false;
    if (request.getParameter("submit") != null) {
        String sql = "INSERT INTO `fair`(`amt`, `min_distances`, `max_distances`) VALUES ("+
                    "+request.getParameter("chargeunit")+",""+request.getParameter("min_dis")+
                    ",""+request.getParameter("max_dis")+")";
        if (obj.InsertData(sql)) {
            status = true;
        } else {
            status = false;
        }
    }
    List<Map<String, String>> list = obj.fetchAllData("select * from fair");
    String pages="fair";
%>
```

```
<!Doctype html>
<html>
<head>
<title>Manage Fair</title>
<!--Script and StyleSheet-->
<%@ include file="adminscript.jsp" %>
<!--End Script and StyleSheet-->
</head>
<body>
<div class="container-fluid">
    <div class="row">
        <!--Header-->
        <%@ include file="adminnav.jsp" %>
        <!--Header End-->
    </div>
    <div class="row">
        <div class="col-lg-9">
            <main>
                <div class="homecontent">
                    <form action="" method="post">
                        <h3>Add Fair</h3>
```

```

<div class="row form-group">
    <div class="col-lg-3 col-xs-12 padding-label">
        <label class="control-label">Charges :</label>
    </div>
    <div class="col-lg-3 col-xs-12">
        <input class="form-control" name="chargeunit" placeholder="Charge Unit"
type="text" required>
    </div>
</div>
<div class="row form-group">
    <div class="col-lg-3 col-xs-12 padding-label">
        <label class="control-label">Minimum Distance :</label>
    </div>
    <div class="col-lg-3 col-xs-12">
        <input class="form-control" name="min_dis" placeholder="Minimum
Distance" type="text" required>
    </div>
</div>
<div class="row form-group">
    <div class="col-lg-3 col-xs-12 padding-label">
        <label class="control-label">Maximum Distance :</label>
    </div>
    <div class="col-lg-3 col-xs-12">
        <input class="form-control" name="max_dis" placeholder="Maximum
Distance" type="text" required>
    </div>
</div>
<div class="row form-group">
    <div class="col-lg-12">
        <input type="submit" class="btn btn-success btn-block" value="Add Fair"
name="submit">
    </div>
</div>
<div class="form-group">
<% if (request.getParameter("submit") != null) {
    if (status) {
        out.println("<p class='alert alert-success'>Added Successfully.</p>");
    }
    else
    {
        out.println("<p class='alert alert-danger'>Error During Adding Fair.</p>");
    }
%>
</div>

```

```

        </form>
    </div>
<div class="timingtable">
<h4>List Of All Fairs </h4>
    <div class="row">
        <div class="col-lg-12">
            <div class="table-responsive">
                <table class="table table-striped table-bordered">
                    <thead>
                        <tr>
                            <th>Fair Id</th>
                            <th>Charges</th>
                            <th>Minimum Distance</th>
                            <th>Maximum Distance</th>
                            <th>Action</th>
                        </tr>
                    </thead>
                    <tbody>
                        <% for(int i=0;i<list.size();i++) { %>
                        <tr>
                            <td data-id="<%>=<%>list.get(i).get("id") %>"><
                        %>=list.get(i).get("id") %></td>
                            <td data-name="charge"><%>=<%>list.get(i).get("amt") %></td>
                            <td data-name="min_distances"><
                        %>=list.get(i).get("min_distances") %></td>
                            <td data-name="max_distances"><
                        %>=list.get(i).get("max_distances") %></td>
                            <td><button class="edit-fair btn btn-warning" data-id="<%
                        %>=<%>list.get(i).get("id") %>">Edit</button></td>
                        </tr>
                        <% } %>
                    </tbody>
                </table>
            </div>
        </div>

```

```
</div>
</div>
</main>
</div>
<div class="col-lg-3">
<%@ include file="adminsidebar.jsp" %>
</div>
</div>

<!--=====Footer=====-->
<div class="row">
<%@ include file="adminfooter.jsp" %>
</div>
<!--=====Footer End=====-->
</div>
</body>
</html>
```

Metro Rail



Home Complaints Timing Fair and Route Metro Card

Add Admin

Name :

Address :

Phone :

Email :

Age :

Gender :

Designation :

Password :

Manage System

Administrator

Dashboard

Manage Station

Manage Route

Manage Train

Manage Fair

Manage Admin

Manage Trip

Complaints

Metro Card

Logout

© MetroRail Project Admin Panel

Code :

```
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<%@include file="secure.jsp" %>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    Boolean status = false;
    Boolean checked=false;
    if (request.getParameter("submit") != null) {
        List<Map<String, String>> l2=obj.fetchAllData("select * from admin where
email='"+request.getParameter("email")+"'");
        if(l2.size()==0){
            String sql = "INSERT INTO `admin`(`a_name`, `a_address`, `phone_num`, `email`,
`age`, `gender`, `permission`, `designation`, `password`) VALUES
("'+request.getParameter("name")+"','"+'+request.getParameter("a_address")
+"','"+'+request.getParameter("phone_num")+"','"+'+request.getParameter("email")
+"','"+'+request.getParameter("age")+"','"+'+request.getParameter("gender")
+"','"+'1','"+'+request.getParameter("designation")+"','"+'+request.getParameter("password")+"')";
            if (obj.InsertData(sql)) {
                status = true;
            } else {
                status = false;
            }
        }
        else{
            checked=true;
        }
    }
    String pages="admin";
%>

<!Doctype html>
<html>
<head>
<title>Add Admin</title>
<!--Script and StyleSheet-->
<%@ include file="adminscript.jsp" %>
<!--End Script and StyleSheet-->
</head>
<body>
<div class="container-fluid">
    <div class="row">
        <!--
        =====Header=====
        -->
    <%@ include file="adminnav.jsp" %>
```

```

    </div>
<div class="row">
<div class="col-lg-9">
<main>
    <div class="homecontent">
        <h3>Add Admin</h3>
        <form action="" method="post">
            <div class="row form-group">
                <div class="col-lg-3 col-xs-12 padding-label">
                    <label class="control-label">Name :</label>
                </div>
                <div class="col-lg-3 col-xs-12">
                    <input class="form-control" name="a_name" placeholder="Name"
type="text" required>
                </div>
            </div>
            <div class="row form-group">
                <div class="col-lg-3 col-xs-12 padding-label">
                    <label class="control-label">Address :</label>
                </div>
                <div class="col-lg-3 col-xs-12">
                    <input class="form-control" name="a_address" placeholder="Address"
type="text" required>
                </div>
            </div>
            <div class="row form-group">
                <div class="col-lg-3 col-xs-12 padding-label">
                    <label class="control-label">Phone :</label>
                </div>
                <div class="col-lg-3 col-xs-12">
                    <input class="form-control" name="phone_num" placeholder="Phone"
type="text" required>
                </div>
            </div>
            <div class="row form-group">
                <div class="col-lg-3 col-xs-12 padding-label">
                    <label class="control-label">Email :</label>
                </div>
                <div class="col-lg-3 col-xs-12">
                    <input class="form-control" name="email" placeholder="Email" type="text"
required>
                </div>
            </div>
        </form>
    </div>
</main>
</div>

```

```

<div class="row form-group">
<div class="col-lg-3 col-xs-12 padding-label">
    <label class="control-label">Age :</label>
</div>
<div class="col-lg-3 col-xs-12">
    <input class="form-control" name="age" placeholder="Age" type="text"
required>
</div>
</div>

        <div class="row form-group">
<div class="col-lg-3 col-xs-12 padding-label">
    <label class="control-label">Gender :</label>
</div>
<div class="col-lg-3 col-xs-12">
    <Select class="form-control" name="gender" required>
        <option>Male</option>
        <option>Female</option>
    </select>
</div>
</div>
</div>

        <div class="row form-group">
<div class="col-lg-3 col-xs-12 padding-label">
    <label class="control-label">Designation :</label>
</div>
<div class="col-lg-3 col-xs-12">
    <input class="form-control" name="designation" placeholder="Designation"
type="text" required>
</div>
</div>

        <div class="row form-group">
<div class="col-lg-3 col-xs-12 padding-label">
    <label class="control-label">Password :</label>
</div>
<div class="col-lg-3 col-xs-12">
    <input class="form-control" name="password" placeholder="password"
type="password" required>
</div>
</div>

```

```

<div class="row form-group">
    <div class="col-lg-12">
        <input type="submit" value="Add Admin" name="submit" class="btn btn-success btn-block">
    </div>

</div>
<div class="form-group">
<% if (request.getParameter("submit") != null) {
    if (status) {
        out.println("<p class='alert alert-success'>Added Successfully.</p>");
    }
    else if(checked){
        out.println("<p class='alert alert-danger'>Sorry Email Already Exist.</p>");
    }
    else
    {
        out.println("<p class='alert alert-danger'>Error During Adding Admin.</p>");
    }
}
%>
</div>
</form>
</div>

</main>
</div>
<div class="col-lg-3">
    <%@ include file="adminsidebar.jsp" %>
</div>
</div>

<=====Footer=====>
<div class="row">
<%@ include file="adminfooter.jsp" %>
</div>
<=====Footer End=====>
</div>
</body>
</html>

```

Metro Rail



Home Complaints Timing Fair and Route Metro Card

Add Trip

Trip Code. :

Select Route :

Select Train :

Station	Arrival	Departure	Action
Dhanbad	--:-- --	--:-- --	<button>Delete</button>

Add Station Add Trip

List Of Trips

Trip Code	Train No.	Route	No. of Station	Action
first_trip	abc123	first	2	<button>Edit</button>
second_trip	abc456	second	2	<button>Edit</button>
trip2	abc852	second	2	<button>Edit</button>
trip3	abc123	first	2	<button>Edit</button>

Manage System

Administrator

- Dashboard
- Manage Station
- Manage Route
- Manage Train
- Manage Fair
- Manage Admin
- Manage Trip
- Complaints
- Metro Card
- [Logout](#)

© MetroRail Project Admin Panel

Code :

```
<%@page import="java.math.BigDecimal"%>
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<%@include file="secure.jsp" %>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
Boolean status = false;
if (request.getParameter("submit") != null) {

    String sql = "INSERT INTO `trip`(`trip_code`, `train_id`, `route_id`) VALUES
(""+request.getParameter("tripcode")+"','"+"+request.getParameter("train")
+"','"+"+request.getParameter("route")+"");
    BigDecimal ids=obj.InsertDataWithId(sql);
    String[] stations=request.getParameterValues("station[]");
    String[] arrv=request.getParameterValues("arrival[]");
    String[] dept=request.getParameterValues("dept[]");
    for(int k=0;k<stations.length;k++){
        if(obj.InsertData("INSERT INTO `trip_details`(`trip_num`, `station_id`,
`arrival_time`, `departure_time`) VALUES ("+ids+"','"++stations[k]+"','"++arrv[k]
+"','"++dept[k]+"")) {
            status = true;
        } else {
            status = false;
        }
    }
}
List<Map<String, String>> routes = obj.fetchAllData("select * from route");
List<Map<String, String>> trains = obj.fetchAllData("select * from trains");
List<Map<String, String>> station = obj.fetchAllData("select * from station");
String pages="trip";

List<Map<String, String>> alltrips=obj.fetchAllData("SELECT d.* ,a.r_name as
routename,b.train_no as trainname, count(c.trip_num) as totalcount FROM trip as d, route
as a, trains as b, trip_details as c WHERE a.`id`=d.`route_id` and b.id=d.`train_id` and
c.trip_num=d.`id` GROUP by c.trip_num");

%>
```

```

<!Doctype html>
<html>
<head>
<title>Manage Trip</title>
<=====Script and StyleSheet=====>
<%@ include file="adminscript.jsp" %>
<=====End Script and StyleSheet=====>
</head>
<body>
<div class="container-fluid">
    <div class="row">
        <=====Header=====>
        <%@ include file="adminnav.jsp" %>
        <=====Header End=====>
    </div>
    <div class="row">
        <div class="col-lg-9">
            <main>
                <div class="homecontent">
                    <h3>Add Trip</h3>
                    <form action="" method="post">
                        <div class="row form-group">
                            <div class="col-lg-3 col-xs-12 padding-label">
                                <label class="control-label">Trip Code. : </label>
                            </div>
                            <div class="col-lg-3 col-xs-12">
                                <input class="form-control" name="tripcode" placeholder="Trip Code." type="text">
                            </div>
                        </div>
                        <div class="row form-group">
                            <div class="col-lg-3 col-xs-12 padding-label">
                                <label class="control-label">Select Route :</label>
                            </div>
                            <div class="col-lg-3 col-xs-12">
                                <select class="form-control" name="route">
                                    <%
                                        for(int i=0;i<routes.size();i++) {
                                            out.println("<option value='"+routes.get(i).get("id")+"'>"+routes.get(i).get("r_name")+"</option>");
                                        }
                                    %>
                                </select>
                            </div>
                        </div>
                    </form>
                </div>
            </main>
        </div>
    </div>
</div>

```

```

        </div>
    </div>
    <div class="row form-group">
        <div class="col-lg-3 col-xs-12 padding-label">
            <label class="control-label">Select Train :</label>
        </div>
        <div class="col-lg-3 col-xs-12">
            <select class="form-control" name="train">
                <%
                    for(int i=0;i<trains.size();i++){
                        out.println("<option value='"+trains.get(i).get("id")
+"""+trains.get(i).get("train_no")+"</option>");
                    }
                %>
            </select>
        </div>
    </div>
    <div class="table-responsive">
        <table class="table table-bordered table-striped table-trip">
            <tr>
                <th>Station</th>
                <th>Arrival</th>
                <th>Departure</th>
                <th>Action</th>
            </tr>
            <tr>
                <td>
                    <select class="form-control" name="station[]">
                        <%
                            for(int i=0;i<station.size();i++){
                                out.println("<option value='"+station.get(i).get("id")
+"""+station.get(i).get("s_name")+"</option>");
                            }
                        %>
                    </select>
                </td>
                <td><input type="time" class="form-control" placeholder="Arrival"
name="arrival[]"></td>
                <td><input type="time" class="form-control" placeholder="Departure"
name="dept[]"></td>
                <td><button class="btn btn-danger btn-block btn-delete-station-t">Delete
</button></td>
            </tr>

```

```

</table>
</div>
<div class="row form-group">
    <div class="col-lg-6">
        <button class="btn btn-success btn-block btn-add-station-trip"
type="button">Add Station</button>
    </div>
    <div class="col-lg-6">
        <input class="btn btn-success btn-block" value="Add Trip" name="submit"
type="submit">
    </div>

</div>
<div class="form-group">
    <% if (request.getParameter("submit") != null) {
        if (status) {
            out.println("<p class='alert alert-success'>Added Successfully.</p>");
        }
        else
        {
            out.println("<p class='alert alert-danger'>Error During Adding
Trip.</p>");

        }
    }%>
</div>
</form>
</div>
<div class="timingtable">
    <h4>List Of Trips </h4>
    <div class="row">
        <div class="col-lg-12">
            <div class="table-responsive">
                <table class="table table-striped table-bordered">
                    <thead>
                        <tr>
                            <th>Trip Code</th>
                            <th>Train No.</th>
                            <th>Route</th>
                            <th>No. of Station</th>
                            <th>Action</th>
                        </tr>
                    </thead>
                    <tbody>

```

```

<%
    for(int i=0;i<alltrips.size();i++){
        %
        <tr>
            <td><%=alltrips.get(i).get("trip_code") %></td>
            <td><%=alltrips.get(i).get("train_no") %></td>
            <td><%=alltrips.get(i).get("r_name") %></td>
            <td><%=alltrips.get(i).get("totalcount") %></td>
            <td><button class="edit-trip btn btn-warning" data-id=<
%=>alltrips.get(i).get("id") %>">Edit</button></td>
        </tr>
    %
    %
    </tbody>

    </table>
</div>
</div>
</div>
</div>
</main>
</div>
<div class="col-lg-3">
    <%@ include file="adminsidebar.jsp" %>
</div>
</div>

```

```

<!=====Footer=====-->
<div class="row">
<%@ include file="adminfooter.jsp" %>
</div>
<!=====Footer End=====-->
</div>
</body>
</html>

```

Metro Rail



Add Trip

Trip Code. :	first_trip
Select Route :	first
Select Train :	abc123

Station	Arrival	Departure	Action
Dhanbad	08:50 AM	09:00 AM	Delete
Katras, Jharkhand, India	09:11 AM	09:20 AM	Delete

[Add Station](#) [Update Trip](#)

Manage System

- Administrator**
- Dashboard
- Manage Station
- Manage Route
- Manage Train
- Manage Fair
- Manage Admin
- Manage Trip
- Complaints
- Metro Card
- [Logout](#)

© MetroRail Project Admin Panel

Code :

```
<%@page import="java.math.BigDecimal"%>
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<%@include file="secure.jsp" %>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
Boolean status = false;
if (request.getParameter("submit") != null) {

    String sql = "UPDATE `trip` SET `trip_code`='"+request.getParameter("tripcode")
+"`, `train_id`='"+request.getParameter("train")
+"`, `route_id`='"+request.getParameter("route")+"' WHERE
id='"+request.getParameter("id")+"'";
    obj.InsertData(sql);
    String[] stations=request.getParameterValues("station[]");
    String[] arrv=request.getParameterValues("arrival[]");
    String[] dept=request.getParameterValues("dept[]");
    obj.InsertData("DELETE FROM `trip_details` WHERE
trip_num='"+request.getParameter("id")+"'");
    for(int k=0;k<stations.length;k++){
        if(obj.InsertData("INSERT INTO `trip_details`(`trip_num`, `station_id`,
`arrival_time`, `departure_time`) VALUES (""+request.getParameter("id")
+"','"++stations[k]+","+arrv[k]+","+dept[k]+")")) {
            status = true;
        } else {
            status = false;
        }
    }
    List<Map<String, String>> routes = obj.fetchAllData("select * from route");
    List<Map<String, String>> trains = obj.fetchAllData("select * from trains");
    List<Map<String, String>> station = obj.fetchAllData("select * from station");
    String pages="trip";

    List<Map<String, String>> alltrips=obj.fetchAllData("SELECT d.* ,a.r_name as
routename,b.train_no as trainname,count(c.trip_num) as totalcount FROM trip as d,route
as a,trains as b,trip_details as c WHERE a.`id`=d.`route_id` and b.id=d.`train_id` and
c.trip_num=d.`id` and d.id='"+request.getParameter("id")+"' GROUP by c.trip_num");
    if(alltrips.size()<=0){
        response.sendRedirect("route.jsp");
    }
    List<Map<String, String>> alltripsdetails=obj.fetchAllData("SELECT * FROM
`trip_details` WHERE trip_num='"+request.getParameter("id")+"')");
%>
```

```

<!Doctype html>
<html>
<head>
<title>Edit Trip</title>
<!--Script and
StyleSheet-->
<%@ include file="adminscript.jsp" %>
<!--End Script and
StyleSheet-->
</head>
<body>
<div class="container-fluid">
    <div class="row">
        <!--Header-->
        <%@ include file="adminnav.jsp" %>
        <!--Header End-->
    </div>
    <div class="row">
        <div class="col-lg-9">
            <main>
                <div class="homecontent">
                    <h3>Add Trip</h3>
                    <form action="" method="post">
                        <div class="row form-group">
                            <div class="col-lg-3 col-xs-12 padding-label">
                                <label class="control-label">Trip Code. : </label>
                            </div>
                            <div class="col-lg-3 col-xs-12">
                                <input class="form-control" name="tripcode" placeholder="Trip Code." type="text" value="<%="alltrips.get(0).get("trip_code")%>">
                            </div>
                        </div>
                        <div class="row form-group">
                            <div class="col-lg-3 col-xs-12 padding-label">
                                <label class="control-label">Select Route :</label>
                            </div>
                            <div class="col-lg-3 col-xs-12">
                                <select class="form-control" name="route">
                                    <%
                                        for(int i=0;i<routes.size();i++) {
                                            if(Objects.equals(routes.get(i).get("id"),alltrips.get(0).get("route_id")))
                                                out.println("<option value='"+routes.get(i).get("id")+""
selected>" +routes.get(i).get("r_name")+"</option>");
                                            else
                                                out.println("<option value='"++routes.get(i).get("id")
+"'">" +routes.get(i).get("r_name")+"</option>");
                                        }
                                    %>
                                </select>
                            </div>
                        </div>
                    </form>
                </div>
            </main>
        </div>
    </div>
</div>

```

```

    </div>
</div>
<div class="row form-group">
    <div class="col-lg-3 col-xs-12 padding-label">
        <label class="control-label">Select Train :</label>
    </div>
    <div class="col-lg-3 col-xs-12">
        <select class="form-control" name="train">
            <%
                for(int i=0;i<trains.size();i++){
                    if(Objects.equals(trains.get(i).get("id"),alltrips.get(0).get("train_id")))
                        out.println("<option value='"+trains.get(i).get("id")+""
selected>"+trains.get(i).get("train_no")+"</option>");
                    else
                        out.println("<option value='"+trains.get(i).get("id")"
+"">"+trains.get(i).get("train_no")+"</option>");

                }
            %>
        </select>
    </div>
</div>
<div class="table-responsive">
    <table class="table table-bordered table-striped table-trip">
        <tr>
            <th>Station</th>
            <th>Arrival</th>
            <th>Departure</th>
            <th>Action</th>
        </tr>
        <%
            for(int k=0;k<alltripsdetails.size();k++){
                %>
        <tr>
            <td>
                <select class="form-control" name="station[]">
                    <%
                        for(int i=0;i<station.size();i++){
                            if(Objects.equals(station.get(i).get("id"),alltripsdetails.get(k).get("station_id")))
                                out.println("<option value='"+station.get(i).get("id")+""
selected>"+station.get(i).get("s_name")+"</option>");
                            else
                                out.println("<option value='"+station.get(i).get("id")"
+"">"+station.get(i).get("s_name")+"</option>");

                        }
                    %>
                </select>
            </td>
        </tr>
    </table>
</div>

```

```

        </td>
        <td><input type="time" class="form-control" placeholder="Arrival"
name="arrival[]" value="<% =alltripsdetails.get(k).get("arrival_time") %>"></td>
        <td><input type="time" class="form-control" placeholder="Departure"
name="dept[]" value="<% =alltripsdetails.get(k).get("departure_time") %>"></td>
        <td><button class="btn btn-danger btn-block btn-delete-station-t">Delete
</button></td>
    </tr>
    <% } %>
</table>
</div>
<div class="row form-group">
    <div class="col-lg-6">
        <button class="btn btn-success btn-block btn-add-station-trip"
type="button">Add Station</button>
    </div>
    <div class="col-lg-6">
        <input class="btn btn-success btn-block" value="Update Trip" name="submit"
type="submit">
    </div>
    </div>
    <div class="form-group">
        <% if (request.getParameter("submit") != null) {
            if (status) {           out.println("<p class='alert alert-success'>Updated
Successfully.</p>");          }
            else {                  out.println("<p class='alert alert-danger'>Error During Updating
Trip.</p>");          }
        }
        <%>
    </div>
    </form>
    </div>
</main>
</div>
<div class="col-lg-3">
    <%@ include file="adminsidebar.jsp" %>
</div>
</div>
<=====Footer=====>
<div class="row">
<%@ include file="adminfooter.jsp" %>
</div>
<=====Footer End=====>
</div>
</body>
</html>

```

admin/complain.jsp

Metro Rail



Home Complaints Timing Fair and Route Metro Card

List Of Complaints

Id	Email	Name	Message	Action
1	sanjeev kumar	sksanjeev362@gmail.com	thanks	Replied
2	sanjeev kumar	sksanjeev362@gmail.com	thanks	Replied
3	sanjeev kumar	sksanjeev362@gmail.com	thanks	Replied
4	sanjeev kumar	sksanjeev362@gmail.com	hm	Replied
5	sanjeev kumar	sksanjeev362@gmail.com	hh	Replied
6	sanjeev kumar	sksanjeev362@gmail.com	bb	Reply
7	sanjeev	sksanjeev362@gmail.com	th	Reply

Manage System



- Dashboard
- Manage Station
- Manage Route
- Manage Train
- Manage Fair
- Manage Admin
- Manage Trip
- Complaints
- Metro Card
- Logout

© MetroRail Project Admin Panel

Reply

Name : sanjeev kumar
Email : sksanjeev362@gmail.com
Message : bb

Reply

Close



- Dashboard
- Manage Station
- Manage Route
- Manage Train
- Manage Fair
- Manage Admin
- Manage Trip
- Complaints
- Metro Card
- Logout

© MetroRail Project Admin Panel

Code :

```
<%@ page import = "java.io.* ,java.util.* ,javax.mail.* "%>
<%@ page import = "javax.mail.internet.* ,javax.activation.* "%>
<%@ page import = "javax.servlet.http.* ,javax.servlet.* "%>
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<%@include file="secure.jsp" %>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    Boolean status = false;
    if (request.getParameter("submit") != null) {
        String sql1="UPDATE `complaints` SET `status`='1' WHERE
`id`='"+request.getParameter("cid")+"';
        if(obj.InsertData(sql1)){
            String sql = "INSERT INTO `reply`(`complaints_id`, `msg`, `admin_id`) VALUES
(" +request.getParameter("cid")+", '"+request.getParameter("reply")
+", '"+session.getAttribute("id")+"')";
            if (obj.InsertData(sql)) {
                status = true;
                final String SSL_FACTORY = "javax.net.ssl.SSLSocketFactory";
                // Get a Properties object
                Properties props = System.getProperties();
                props.setProperty("mail.smtp.host", "smtp.gmail.com");
                props.setProperty("mail.smtp.socketFactory.class", SSL_FACTORY);
                props.setProperty("mail.smtp.socketFactory.fallback", "false");
                props.setProperty("mail.smtp.port", "465");
                props.setProperty("mail.smtp.socketFactory.port", "465");
                props.put("mail.smtp.auth", "true");
                props.put("mail.debug", "true");
                props.put("mail.store.protocol", "pop3");
                props.put("mail.transport.protocol", "smtp");
                final String username = "sanjeevmetrorail@gmail.com";//"
                final String password = "sanjeev@123";
                String result="";
                try{
                    Session sessions = Session.getInstance(props,
                        new Authenticator(){
                            protected PasswordAuthentication getPasswordAuthentication() {
                                return new PasswordAuthentication(username, password);
                            }
                        });
                
```

```

Message msg = new MimeMessage(sessions);

// -- Set the FROM and TO fields --
msg.setFrom(new InternetAddress("sanjeevmetrorail@gmail.com"));
msg.setRecipients(Message.RecipientType.TO,
    InternetAddress.parse(request.getParameter("email"),false));
msg.setSubject("Email From MetroRail");
msg.setText(request.getParameter("reply"));
msg.setSentDate(new Date());
Transport.send(msg);
//System.out.println("Message sent.");
}catch (MessagingException e){ System.out.println("Error " + e);}

} else {
    status = false;
}
}
else{
    status = false;
}
}

List<Map<String, String>> list = obj.fetchAllData("select * from complaints");
String pages="complaint";

%>

<!Doctype html>
<html>
<head>
<title>Reply Complaints</title>
<=====Script and StyleSheet=====>
<%@ include file="adminscript.jsp" %>
<=====End Script and StyleSheet=====>
</head>
<body>
<div class="container-fluid">
    <div class="row">
<=====Header=====>
<%@ include file="adminnav.jsp" %>
<=====Header End=====>
    </div>
    <div class="row">
        <div class="col-lg-9">
            <main>
                <div class="timingtable">
                    <h4>List Of Complaints </h4>

```

```

<div class="row">
    <div class="col-lg-12">
        <div class="table-responsive">
            <table class="table table-striped table-bordered">
                <thead>
                    <tr>
                        <th>Id</th>
                        <th>Email</th>
                        <th>Name</th>
                        <th>Message</th>
                        <th>Action</th>
                    </tr>
                </thead>
                <tbody>
                    <% for(int i=0;i<list.size();i++) { %>
                    <tr>
                        <td><%=list.get(i).get("id") %></td>
                        <td><%=list.get(i).get("u_name") %></td>
                        <td><%=list.get(i).get("email") %></td>
                        <td><%=list.get(i).get("msg") %></td>
                        <td>
                            <% if(Objects.equals(list.get(i).get("status"), "1")) { %>
                                <button class="btn btn-success" disabled data-id=<%=list.get(i).get("id") %>">Replied</button>
                            <% } else { %>
                                <button class="edit-reply btn btn-warning" data-id=<%=list.get(i).get("id") %>" data-toggle="modal" data-target="#myModal">Reply</button>
                            <% } %>
                        </td>
                    </tr>
                    <% } %>
                </tbody>
            </table>
        </div>
    </div>
    <div class="col-lg-12">
        <div class="form-group">
            <% if (request.getParameter("submit") != null) {
                if (status) { out.println("<p class='alert alert-success'>Replied
Successfully.</p>"); } else { out.println("<p class='alert alert-danger'>Error During Sending
Message.</p>"); }
            } %>
        </div>
    </div>

```

```

</div>
</div>
    </div>
</div>
</main>
</div>
<div class="col-lg-3">
    <%@ include file="adminsidebar.jsp" %>
</div>
</div>

<div class="modal fade" id="myModal" role="dialog">
<div class="modal-dialog">

    <!-- Modal content-->
<div class="modal-content">
    <div class="modal-header">
        <button type="button" class="close" data-dismiss="modal">&times;</button>
        <h4 class="modal-title">Reply</h4>
    </div>
    <div class="modal-body">
        <form action="" method="post">
            <p><b>Name : </b><span id="r_name">sanjeev</span></p>
            <p><b>Email : </b><span id="r_email">sanjeev@gmail.com</span></p>
            <p><b>Message : </b><span id="r_msg">sanjeev</span></p>
            <input type="hidden" name="email" id="in_remail">
            <input type="hidden" name="cid" id="in_rid">
            <p><textarea id="r_reply" style="width: 100%;" name="reply"></textarea></p>
            <p><input name="submit" value="Reply" class="btn btn-success btn-block" type="submit"></p>
        </form>
    <div class="modal-footer">
        <button type="button" class="btn btn-default" data-dismiss="modal">Close</button>
    </div>
</div>
</div>

<=====Footer=====>
<div class="row">
<%@ include file="adminfooter.jsp" %>
</div>
<=====Footer End=====>
</div>
</body>
</html>
114

```

admin/metrocard.jsp

Metro Rail



Home Complaints Timing Fair and Route Metro Card

List Of Metro Card

Id	Email	Name	Card No.	Action
1	sksanjeev362@gmail.com	sanjeev kumar	abcsde	<button>Issued</button>
2	sksanjeev362@gmail.com	test	9858888	<button>Issued</button>

Manage System



- Dashboard
- Manage Station
- Manage Route
- Manage Train
- Manage Fair
- Manage Admin
- Manage Trip
- Complaints
- [Metro Card](#)
- Logout

© MetroRail Project Admin Panel

List Of Metro Card

Id	Email
1	sksanjeev362@gmail.com
2	sksanjeev362@gmail.com
3	test@gmail.com

Issue Metro Card

Email : test@gmail.com

Card No.

Activate Card

Manage System



- Dashboard
- Manage Station
- Manage Route
- Manage Train
- Manage Fair
- Manage Admin

Code :

```
<%@page import="javax.mail.internet.MimeMessage"%>
<%@page import="javax.mail.internet.InternetAddress"%>
<%@ page import = "java.io.* ,java.util.* ,javax.mail.* "%>
<%@page import="java.util.Map"%>
<%@page import="java.util.List"%>
<%@include file="secure.jsp" %>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    Boolean status = false;
    Boolean checked=false;
    if (request.getParameter("submit") != null) {
        List<Map<String, String>> ch=obj.fetchAllData("select * from metro_card where
card_num='"+request.getParameter("cardno")+"'");
        if(ch.size()==0){
            String sql = "UPDATE `metro_card` SET
`card_num`='"+request.getParameter("cardno")+"',`card_status`='1','balance'='0' WHERE
`id`='"+request.getParameter("cid")+"';
            if (obj.InsertData(sql)) {
                final String SSL_FACTORY = "javax.net.ssl.SSLSocketFactory";
// Get a Properties object
Properties props = System.getProperties();
props.setProperty("mail.smtp.host", "smtp.gmail.com");
props.setProperty("mail.smtp.socketFactory.class", SSL_FACTORY);
props.setProperty("mail.smtp.socketFactory.fallback", "false");
props.setProperty("mail.smtp.port", "465");
props.setProperty("mail.smtp.socketFactory.port", "465");
props.put("mail.smtp.auth", "true");
props.put("mail.debug", "true");
props.put("mail.store.protocol", "pop3");
props.put("mail.transport.protocol", "smtp");
final String username = "sanjeevmetrorail@gmail.com";//"
final String password = "sanjeev@123";
String result="";
try{
Session sessions = Session.getInstance(props,
        new Authenticator(){
            protected PasswordAuthentication getPasswordAuthentication() {
                return new PasswordAuthentication(username, password);
            }});

```

```

// -- Create a new message --
Message msg = new MimeMessage(sessions);

// -- Set the FROM and TO fields --
msg.setFrom(new InternetAddress("sanjeevmetrorail@gmail.com"));
msg.setRecipients(Message.RecipientType.TO,
    InternetAddress.parse(request.getParameter("email"),false));
msg.setSubject("Card Has Been Issued");
msg.setText("your Metro Card has been Activated With card No.
"+request.getParameter("cardno")+". Please visit neares Metro Station To Collect your
Card");

msg.setSentDate(new Date());
Transport.send(msg);
//System.out.println("Message sent.");
}catch (MessagingException e){ System.out.println("Error " + e);}

status = true;

} else {
    status = false;
}
}

else{
    checked=true;
}
}

List<Map<String, String>> list = obj.fetchAllData("select * from metro_card");
String pages="card";

```

%>

```

<!Doctype html>
<html>
<head>
<title>Card Issue</title>
<=====Script and StyleSheet=====>
<%@ include file="adminscript.jsp" %>
<=====End Script and StyleSheet=====>
</head>
<body>
<div class="container-fluid">
  <div class="row">
    <=====Header=====>
    <%@ include file="adminnav.jsp" %>
    <=====Header End=====>
  </div>
  <div class="row">
    <div class="col-lg-9">
      <main>
        <div class="timingtable">
          <h4>List Of Metro Card </h4>
          <div class="row">
            <div class="col-lg-12">
              <div class="table-responsive">
                <table class="table table-striped table-bordered"> <thead> <tr>
                  <th>Id</th>
                  <th>Email</th>
                  <th>Name</th>
                  <th>Card No.</th>
                  <th>Action</th>
                </tr> </thead> <tbody>
                <% for(int i=0;i<list.size();i++) { %>
                <tr>
                  <td><%=list.get(i).get("id") %></td>
                  <td><%=list.get(i).get("email") %></td>
                  <td><%=list.get(i).get("u_name") %></td>
                  <td><%=list.get(i).get("card_num") %></td>
                  <% if(Objects.equals(list.get(i).get("card_status"),"1")) { %>
                    <td><button class="btn btn-warning" data-id="<%
                      %=list.get(i).get("id") %>" disabled="disabled">Issued</button></td>
                  <% } else { %>
                    <td><button class="edit-cards btn btn-warning" data-id="<%
                      %=list.get(i).get("id") %>" data-toggle="modal" data-
                      target="#myModal">Issue</button></td>
                    <% } %>
                  </td>
                <% } %>
                </tr>
              </tbody>
            </div>
          </div>
        </main>
      </div>
    </div>
  </div>
</body>

```

```

        </table>
    </div>
</div>
<div class="col-lg-12">
<div class="form-group">
<% if (request.getParameter("submit") != null) {
    if (status) {

        out.println("<p class='alert alert-success'>Issued Successfully.</p>");
    }
    else if(checked){
        out.println("<p class='alert alert-success'>Card no. Already Exist.</p>");
    }
    else
    {
        out.println("<p class='alert alert-danger'>Error During Issuing Card.</p>");
    }
%
%>
</div>
</div>

</div>
</div>

</main>
</div>
<div class="col-lg-3">
<%@ include file="adminsidebar.jsp" %>
</div>
</div>
<div class="modal fade" id="myModal" role="dialog">
<div class="modal-dialog">

    <!-- Modal content-->
    <div class="modal-content">
        <div class="modal-header">
            <button type="button" class="close" data-dismiss="modal">&times;</button>
            <h4 class="modal-title">Issue Metro Card</h4>
        </div>

```

```

<div class="modal-body">
    <form action="" method="post">
        <p><b>Email : </b><span id="r_email">sanjeev</span></p>
        <input type="hidden" name="email" id="in_remail">
        <input type="hidden" name="cid" id="in_rid">
        <p>Card No.</p>
        <p><input id="r_reply" style="width: 100%;" name="cardno" placeholder="Card No" class="form-control"></p>
        <p><input name="submit" value="Activate Card" class="btn btn-success btn-block" type="submit"></p>
    </form>
</div>
<div class="modal-footer">
    <button type="button" class="btn btn-default" data-dismiss="modal">Close</button>
</div>
</div>

```

```

<!--=====Footer=====-->
<div class="row">
<%@ include file="adminfooter.jsp" %>
</div>
<!--=====Footer End=====-->
</div>
</body>
</html>

```

Some Important included files and beans files

admin/adminfooter.jsp

```
<%--  
 Document : Footer  
 Created on : 17 Feb, 2018, 9:26:36 PM  
 Author : sanjeev  
--%>  
  
<%@page contentType="text/html" pageEncoding="UTF-8"%>  
<footer>  
    &copy MetroRail Project Admin Panel  
</footer>  
<div class="snackbar">  
  
</div>  
<script src="../js/admin.js"></script>
```

admin/adminnav.jsp

```
<%--  
 Document : Header  
 Created on : 17 Feb, 2018, 9:14:29 PM  
 Author : sanjeev  
--%><%@page import="java.util.Objects"%>  
<%@page contentType="text/html" pageEncoding="UTF-8"%>  
<header>  
<nav class="navbar navbar-inverse">  
    <div class="container-fluid">  
        <div class="navbar-header">  
            <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#myNavbar">  
                <span class="icon-bar"></span>  
                <span class="icon-bar"></span>  
                <span class="icon-bar"></span>  
            </button>  
            <a class="navbar-brand" href="#"></a>  
        </div>  
        <div class="collapse navbar-collapse" id="myNavbar">  
            <ul class="nav navbar-nav navbar-right">  
                <li><a href="../index.jsp"><i class="fa fa-home"></i> Home</a></li>  
                <li><a href="../complaint.jsp"><i class="fa fa-comment"></i> Complaints</a></li>  
                <li><a href="../timing.jsp"><i class="fa fa-clock-o"></i> Timing</a></li>  
                <li><a href="../fair.jsp"><i class="fa fa-map"></i> Fair and Route</a></li>  
                <li><a href="../card.jsp"><i class="fa fa-credit-card"></i> Metro Card</a></li>  
            <ul>  
121</ul>
```

```

</div>
</div>
</nav>

<div id="myCarousel" class="carousel slide" data-ride="carousel">
  <!-- Indicators -->
  <ol class="carousel-indicators">
    <li data-target="#myCarousel" data-slide-to="0" class="active"></li>
    <li data-target="#myCarousel" data-slide-to="1"></li>
    <li data-target="#myCarousel" data-slide-to="2"></li>
  </ol>
  <div class="carousel-inner">
    <div class="item active">
      
    </div>

    <div class="item">
      
    </div>

    <div class="item">
      
    </div>
  </div>
  <!-- Left and right controls -->
  <a class="left carousel-control" href="#myCarousel" data-slide="prev">
    <span class="sr-only">Previous</span>
  </a>
  <a class="right carousel-control" href="#myCarousel" data-slide="next">
    <span class="sr-only">Next</span>
  </a>
</div>
</header>

```

admin/adminscript.jsp

```
<%--  
Document : scriptsstyle  
Created on : 17 Feb, 2018, 9:39:25 PM  
Author : sanjeev  
--%>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">  
<link rel="stylesheet" href="../css/bootstrap.min.css">  
<script src="../js/jquery.min.js" %></script>  
<script src="../js/bootstrap.min.js" %></script>  
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-  
awesome/4.7.0/css/font-awesome.min.css">  
<link rel="stylesheet" href="../css/style.css">
```

admin/adminsidebar.jsp

```
<%@page import="java.util.Objects"%>  
<%@page contentType="text/html" pageEncoding="UTF-8"%>  
<div class="homeside card-side">  
    <h3>Manage System</h3>  
      
    <ul style="padding-left: 0;">  
        <li <% if(Objects.equals(pages, "home")){ %>class="active"<% } %>><a  
            href="index.jsp">Dashboard</a></li>  
        <li <% if(Objects.equals(pages, "station")){ %>class="active"<% } %>><a  
            href="station.jsp">Manage Station</a></li>  
        <li <% if(Objects.equals(pages, "route")){ %>class="active"<% } %>><a  
            href="route.jsp">Manage Route</a></li>  
        <li <% if(Objects.equals(pages, "train")){ %>class="active"<% } %>><a  
            href="train.jsp">Manage Train</a></li>  
        <li <% if(Objects.equals(pages, "fair")){ %>class="active"<% } %>><a  
            href="fair.jsp">Manage Fair</a></li>  
        <li <% if(Objects.equals(pages, "admin")){ %>class="active"<% } %>><a  
            href="admin.jsp">Manage Admin</a></li>  
        <li <% if(Objects.equals(pages, "trip")){ %>class="active"<% } %>><a  
            href="trip.jsp">Manage Trip</a></li>  
        <li <% if(Objects.equals(pages, "complaint")){ %>class="active"<% } %>><a  
            href="complaint.jsp">Complaints</a></li>  
        <li <% if(Objects.equals(pages, "card")){ %>class="active"<% } %>><a  
            href="metrocard.jsp">Metro Card</a></li>  
        <li <% if(Objects.equals(pages, "logout")){ %>class="active"<% } %>><a  
            href="logout.jsp">Logout</a></li>  
    </ul>  
</div>
```

admin/apiservice.jsp (For Updating Data Via Ajax Request)

```
<%@page import="org.json.simple.JSONArray"%>
<%@page import="java.util.List"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.util.Objects"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@include file="secure.jsp" %>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    String method=request.getParameter("method");
    if(session.getAttribute("email")!=null){
        if(Objects.equals(method, "station")){
            if(obj.InsertData("UPDATE `station` SET `s_name`='"+request.getParameter("name")+
            +"',`latitude`='"+request.getParameter("lat")+"',`longitude`='"+request.getParameter("lng")+"' WHERE
            id='"++request.getParameter("id")+"')"){
                out.print("true");
            }else{
                out.print("false");
            }
        }
        else if(Objects.equals(method, "train")){
            if(obj.InsertData("UPDATE `trains` SET `train_no`='"+request.getParameter("train_no")+
            +"',`capacity`='"+request.getParameter("capacity")+"' WHERE id='"++request.getParameter("id")+"')"){
                out.print("true");
            }else{
                out.print("false");
            }
        }
        else if(Objects.equals(method, "fair")){
            if(obj.InsertData("UPDATE `fair` SET `amt`='"+request.getParameter("charge")+
            +"',`min_distances`='"+request.getParameter("min_distances")+
            +"',`max_distances`='"+request.getParameter("max_distances")+"' WHERE
            id='"++request.getParameter("id")+"')"){
                out.print("true");
            }else{
                out.print("false");
            }
        }
        else if(Objects.equals(method, "getstation")){
            JSONArray StationList=obj.GetStation(request.getParameter("station"));
            out.print(StationList);
        }
        else{
            out.print("Method Not Found");
        }
    }else{
        if(Objects.equals(method, "getstation")){
            JSONArray StationList=obj.GetStation(request.getParameter("station"));
            out.print(StationList);
        }
        else{
            out.print("Method Not Found");
        }
    }
%>
```

admin/secure.jsp

```
<%--  
 Document : secure  
Created on : 25 Feb, 2018, 10:57:21 AM  
 Author   : sanjeev  
--%>  
  
<%@page contentType="text/html" pageEncoding="UTF-8"%>  
<%  
if(session.getAttribute("email")==null){  
 String redirectURL = "index.jsp";  
 response.sendRedirect(redirectURL);  
}  
%>
```

admin/logout.jsp

```
<%--  
 Document : logout  
Created on : 25 Feb, 2018, 11:05:55 AM  
 Author   : sanjeev  
--%>  
  
<%@page contentType="text/html" pageEncoding="UTF-8"%>  
<%  
session.removeAttribute("email");  
response.sendRedirect("index.jsp");  
%>
```

footer.jsp

```
<%--  
 Document : Footer  
 Created on : 17 Feb, 2018, 9:26:36 PM  
 Author   : sanjeev  
--%>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>  
<footer>  
    &copy MetroRail Project By Sanjeev  
</footer>  
<script src="js/user.js"></script>
```

nav.jsp

```
<%--  
 Document : Header  
 Created on : 17 Feb, 2018, 9:14:29 PM  
 Author   : sanjeev  
--%>
```

```
<%@page import="java.util.Objects"%>  
<%@page contentType="text/html" pageEncoding="UTF-8"%>  
<header>  
<nav class="navbar navbar-inverse ">  
    <div class="container-fluid">  
        <div class="navbar-header">  
            <button type="button" class="navbar-toggle" data-toggle="collapse" data-  
target="#myNavbar">  
                <span class="icon-bar"></span>  
                <span class="icon-bar"></span>  
                <span class="icon-bar"></span>  
            </button>  
            <a class="navbar-brand" href="#"></a>  
        </div>  
        <div class="collapse navbar-collapse" id="myNavbar">  
            <ul class="nav navbar-nav navbar-right">  
                <li <% if(Objects.equals(pages, "home")){ %>class="active"<% } %>><a href="index.jsp"><i class="fa fa-home"></i> Home</a></li>  
                <li <% if(Objects.equals(pages, "complaint")){ %>class="active"<% } %>><a href="complaint.jsp"><i class="fa fa-comment"></i> Complaints</a></li>  
                <li <% if(Objects.equals(pages, "timing")){ %>class="active"<% } %>><a href="timing.jsp"><i class="fa fa-clock-o"></i> Timing</a></li>  
                <li <% if(Objects.equals(pages, "fair")){ %>class="active"<% } %>><a href="fair.jsp"><i class="fa fa-map"></i> Fair and Route</a></li>
```

```

<li <% if(Objects.equals(pages, "card")){ %>class="active"<% } %>><a href="card.jsp"><i class="fa fa-credit-card"></i> Metro Card</a></li>
</ul>
</div>
</div>
</nav>

<div id="myCarousel" class="carousel slide" data-ride="carousel">
<!-- Indicators -->
<ol class="carousel-indicators">
<li data-target="#myCarousel" data-slide-to="0" class="active"></li>
<li data-target="#myCarousel" data-slide-to="1"></li>
<li data-target="#myCarousel" data-slide-to="2"></li>
</ol>
<div class="carousel-inner">
<div class="item active">

</div>

<div class="item">

</div>

<div class="item">

</div>
</div>

<!-- Left and right controls -->
<a class="left carousel-control" href="#myCarousel" data-slide="prev">
<span class="sr-only">Previous</span>
</a>
<a class="right carousel-control" href="#myCarousel" data-slide="next">
<span class="sr-only">Next</span>
</a>
</div>
</header>

```

payresponse.jsp

```
<%@page import="java.util.Objects"%>
<%@page import="java.util.Map"%>
<%@page import="java.util.Enumeration"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
    </head>
    <body>
<jsp:useBean id="obj" class="com.metrorail.DataBaseSource"/>
<%
    Map<String, String>
process=obj.RechargeProcess(request.getParameter("payment_id"),request.getParameter("payment_request_id"));
    if(Objects.equals(process.get("status"),"failed")){
        response.sendRedirect("rechargecard.jsp?failed=true");
    }
    else if(Objects.equals(process.get("status"),"already")){
        response.sendRedirect("rechargecard.jsp?already=true");
    }
    else if(Objects.equals(process.get("status"),"admin")){
        response.sendRedirect("rechargecard.jsp?admin=true");
    }
    else if(Objects.equals(process.get("status"),"success")){
        response.sendRedirect("rechargecard.jsp?success=true");
    }
    else{
        response.sendRedirect("rechargecard.jsp?something=true");
    }
%>
    </body>
</html>
```

scriptstyle.jsp

<%--
Document : scriptsstyle
Created on : 17 Feb, 2018, 9:39:25 PM
Author : sanjeev
--%>

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>

<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="css/bootstrap.min.css">
<script src="js/jquery.min.js" ></script>
<script src="js/bootstrap.min.js" ></script>
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
<link rel="stylesheet" href="css/style.css">
```

sidebar.jsp

<%--
Document : sidebar
Created on : 18 Feb, 2018, 12:16:21 AM
Author : sanjeev
--%>

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<div class="homeside">
    <h3>Stay in Touch!</h3>
    
    <p>We are interested to find out how people want to stay in touch with the project. If you have any comments, feedback or questions, please</p>
</div>
```

sidebarcard.jsp

```
<%--  
 Document : sidebarcard  
 Created on : 20 Feb, 2018, 6:08:05 PM  
 Author   : sanjeev  
--%>
```

```
<%@page import="java.util.Objects"%>  
<%@page contentType="text/html" pageEncoding="UTF-8"%>  
 <div class="homeside card-side">  
     <h3>Our Services!</h3>  
       
     <ul style="padding-left: 0;">  
         <li <% if(Objects.equals(spages, "apply")){ %>class="active"<% } %>><a href="applycard.jsp">Apply</a></li>  
         <li <% if(Objects.equals(spages, "balance")){ %>class="active"<% } %>><a href="balancecard.jsp">Balance Enquiry</a></li>  
         <li <% if(Objects.equals(spages, "recharge")){ %>class="active"<% } %>><a href="rechargecard.jsp">Recharge</a></li>  
     </ul>  
 </div>
```

admin.js (JavaScript File for Admin)

```
$(document).ready(function(){
$(document).on("click",".edit-station",function(){
    var id=$(this).data("id");
    var i=0;
    $(this).text("Save");
    $(this).removeClass("btn-warning");
    $(this).addClass("btn-success");
    $(this).removeClass("edit-station");
    $(this).addClass("save-station");
    $(this).parents("tr").children("td").each(function(){
        var vals=$(this).text();
        if(i==4){
            return true;
        }
        i++;
        console.log($(this).text());
        $(this).html("<input type='text' value='"+vals+"' class='form-control'>");
    });
});

$(document).on("click",".save-station",function(){
    var i=0;
    $(this).text("Edit");
    $(this).addClass("btn-warning");
    $(this).removeClass("btn-success");
    $(this).addClass("edit-station");
    $(this).removeClass("save-station");
    var jsonobj={};
    $(this).parents("tr").children("td").each(function(){
        if(i==4)
        {
            return true;
        }
        i++;
        jsonobj[$(this).data("name")]=$(this).children("input").val();
        var vals=$(this).children("input").val();
        console.log($(this).children("input").val());
        $(this).html(vals);
    });
});
```

```

        jsonobj['id']=$this.data('id');
        ApiService("station",jsonobj,"Error During Editing Station!","Successfully
Updated!");
    });

$(document).on("click",".edit-train",function(){
    var id=$this.data("id");
    var i=0;
    $this.text("Save");
    $this.removeClass("btn-warning");
    $this.addClass("btn-success");
    $this.removeClass("edit-train");
    $this.addClass("save-train");
    $this.parents("tr").children("td").each(function(){
        var vals=$this.text();
        if(i==3){

            return true;
        }
        i++;
        console.log($this.text());
        $this.html("<input type='text' value='"+vals+"' class='form-control'>");
    });
});

$(document).on("click",".save-train",function(){
    var i=0;
    $this.text("Edit");
    $this.addClass("btn-warning");
    $this.removeClass("btn-success");
    $this.removeClass("edit-train");
    $this.addClass("save-train");
    var jsonobj={};
    $this.parents("tr").children("td").each(function(){
        if(i==3)
        {
            return true;
        }
        i++;
    });
});

```

```

jsonobj[$(this).data("name")]=$(this).children("input").val();
    var vals=$(this).children("input").val();
    console.log($(this).children("input").val());
    $(this).html(vals);
});
console.log(jsonobj);
jsonobj['id']=$(this).data('id');
ApiService("train",jsonobj,"Error During Editing Train!","Successfully Updated!")
});

$(document).on("click",".edit-trip",function(){
    var id=$(this).data("id");
    location="edit_trip.jsp?id="+id;
});

$(document).on("click",".edit-fair",function(){
    var id=$(this).data("id");
    var i=0;
    $(this).text("Save");
    $(this).removeClass("btn-warning");
    $(this).addClass("btn-success");
    $(this).removeClass("edit-fair");
    $(this).addClass("save-fair");
    $(this).parents("tr").children("td").each(function(){
        var vals=$(this).text();
        if(i==4){
            return true;
        }
        i++;
        console.log($(this).text());
        $(this).html("<input type='text' value='"+vals+"' class='form-control'>");
    });
});

$(document).on("click",".save-fair",function(){
    var i=0;
    $(this).text("Edit");
}

```

```

$(this).addClass("btn-warning");
$(this).removeClass("btn-success");
$(this).addClass("edit-fair");
$(this).removeClass("save-fair");
var jsonobj={};

$(this).parents("tr").children("td").each(function(){
    if(i==4)
    {
        return true;
    }
    i++;
    jsonobj[$(this).data("name")]=$(this).children("input").val();

    var vals=$(this).children("input").val();
    console.log($(this).children("input").val());
    $(this).html(vals);
});

jsonobj['id']=$(this).data('id');
ApiService("fair",jsonobj,"Error During Editing Fair!","Successfully Updated!");

// showSnackBar("Successfully Edited");
});

$(document).on("click",".edit-reply",function(){
    var id=$(this).data("id");
    var i=0;
    // $(this).text("Replied");
    // $(this).removeClass("btn-warning");
    // $(this).addClass("btn-success");
    // $(this).removeClass("edit-reply");
    // $(this).addClass("save-reply");
    $("#r_name").text($(this).parents('tr').children("td:eq(1)").text());
    $("#r_email").text($(this).parents('tr').children("td:eq(2)").text());
    $("#r_msg").text($(this).parents('tr').children("td:eq(3)").text());
    $("#in_remail").val($(this).parents('tr').children("td:eq(2)").text());
    $("#in_rid").val($(this).parents('tr').children("td:eq(0)").text());
});

$(document).on("click",".save-reply",function(){
    var i=0;

```

```

$(this).text("Reply");
$(this).addClass("btn-warning");
$(this).removeClass("btn-success");
$(this).addClass("edit-reply");
$(this).removeClass("save-reply");

$(this).parents("tr").children("td").each(function(){
    if(i==4)
    {
        return true;
    }
    i++;
    var vals=$(this).children("input").val();
    console.log($(this).children("input").val());
    $(this).html(vals);
});
showSnackBar("Successfully Edited");
});

$(document).on("click",".edit-cards",function(){
    var id=$(this).data("id");
    var i=0;
    $(this).text("Issue");
    $(this).removeClass("btn-warning");
    $(this).addClass("btn-success");
    $(this).removeClass("edit-cards");
    $(this).addClass("save-cards");
    $("#r_email").text($(this).parents("tr").children("td:eq(1)").text());
    $("#in_rid").val($(this).parents("tr").children("td:eq(0)").text());
    $("#in_remail").val($(this).parents("tr").children("td:eq(1)").text());
});
}

$(document).on("click",".save-cards",function(){
    var i=0;
    $(this).text("Reply");
    $(this).addClass("btn-warning");
    $(this).removeClass("btn-success");
    $(this).addClass("edit-cards");
});

```

```

$(this).removeClass("save-cards");

$(this).parents("tr").children("td").each(function(){
    if(i==4)
    {
        return true;
    }
    i++;
    var vals=$(this).children("input").val();
    console.log($(this).children("input").val());
    $(this).html(vals);
});
showSnackBar("Successfully Edited");
});

$(document).on("click",".btn-add-station-routes",function(e){
e.preventDefault();
var htmls$(".table-routes tr:eq(1)").html();
htmls=htmls.replace("\value\g","");
$(".table-routes").append("<tr>" +htmls+"</tr>");
});

$(document).on("click",".btn-delete-station",function(){
var obj$(".table-routes tr").length;
if(obj==2){
    return true;
}
console.log(obj);
$(this).parents("tr").remove();
});

$(document).on("click",".btn-add-station-trip",function(){
var htmls$(".table-trip tr:eq(1)").html();
htmls=htmls.replace("\value\g","");
$(".table-trip").append("<tr>" +htmls+"</tr>");
});

$(document).on("click",".btn-delete-station-t",function(){
var obj$(".table-trip tr").length;
if(obj==2){
    return true;
}
console.log(obj);
$(this).parents("tr").remove();
});

```

```

$(document).on("click",".btn-edit-routes",function(){
    location='editroutes.jsp?id='+$(this).data("id");
});

function showSnackBar(msg){
    $(".snackbar").text(msg);
    $(".snackbar").slideToggle(200,function(){
        $(".snackbar").slideToggle(1000);
    });
}

function ApiService(method,data,error,success){
    data['method']=method;
    $.ajax({
        url: '../admin/apiservice.jsp',
        type: 'POST',
        data:data,
    })
    .done(function (data) {
        if(data.trim() === "true"){
            showSnackBar(success);
        }else{
            showSnackBar(error);
        }
    })
    .fail(function() {
        showSnackBar("Please Check Internet Connection.");
    })
}

}
);

}
);

```

user.js (JavaScript file for user)

```
$(document).ready(function(){
    $(document).on("keyup", ".input_auto_station", function(){
        var data={};
        data['method']="getstation";
        data['station']=$(this).val();
        $.ajax({
            url: 'admin/apiservice.jsp',
            type: 'POST',
            data:data,
        })
        .done(function (data) {
            var Stations=JSON.parse(data);
            var ListData="";
            for(var key in Stations){
                ListData+="
```

WEB-INF/ErrorPage.jsp

```
<%--  
Document : ErrorPage.jsp  
Created on : 25 Mar, 2018, 2:52:19 PM  
Author   : sanjeev  
--%>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>  
<!DOCTYPE html>  
<html>  
    <head>  
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  
        <title>Page Not Found</title>  
    </head>  
    <body>  
        <h1>Sorry Page Not Found</h1>  
    </body>  
</html>
```

WEB-INF/Wweb.xml

```
<?xml version="1.0" encoding="UTF-8"?>  
  
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"  
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
         xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee  
                           http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"  
         version="3.1">  
    <session-config>  
        <session-timeout>  
            30  
        </session-timeout>  
    </session-config>  
  
    <error-page>  
        <error-code>404</error-code>  
        <location>/WEB-INF/ErrorPage.jsp</location>  
    </error-page>  
</web-app>
```

JavaBeans Files

src/java/com/metrorail/DataBaseSource.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author sanjeev
 */
package com.metrorail;
import com.mysql.jdbc.Connection;
import java.io.IOException;
import static java.lang.System.out;
import java.math.BigDecimal;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import jdk.nashorn.api.scripting.JSObject;
import org.json.simple.JSONArray;
import org.json.simple.JSONObject;

public class DataBaseSource {
    String connectionURL = "jdbc:mysql://localhost:3306/metrorail?
zeroDateTimeBehavior=convertToNull";
    Connection connection = null;
    public DataBaseSource() {
        try {
```

```

        Class.forName("com.mysql.jdbc.Driver").newInstance();
        connection = (Connection) DriverManager.getConnection(connectionURL,
"root", "");
        if(!connection.isClosed())
            out.println("Successfully connected to " + "MySQL server using TCP/IP... ");
        //connection.close();
    }
    catch(ClassNotFoundException | IllegalAccessException | InstantiationException |
SQLException ex)
{
    out.println("Unable to connect to database"+ex);
}
}

public List<Map<String, String>> fetchAllData(String sql) throws SQLException{

Statement s=connection.createStatement();
ResultSet executeQuery = s.executeQuery(sql);
ResultSetMetaData res=executeQuery.getMetaData();
int numColumns = res.getColumnCount();
List<Map<String, String>> list=new ArrayList<>();
Map<String, String> rows;
while(executeQuery.next())
{
    rows=new HashMap();
    for(int i=1;i<=numColumns;i++){
        rows.put(res.getColumnName(i),executeQuery.getString(i));
    }

    list.add(rows);
}
return list;
}

public boolean InsertData(String sql) throws SQLException{

Statement s=connection.createStatement();
int ss= s.executeUpdate(sql);
return ss>0;
}

```

```

}

public BigDecimal InsertDataWithId(String sql) throws SQLException{
    Statement s=connection.createStatement();
    int ss= s.executeUpdate(sql,Statement.RETURN_GENERATED_KEYS );
    ResultSet rs = s.getGeneratedKeys();
    java.math.BigDecimal idColVar = null;
    while (rs.next()) {
        idColVar = rs.getBigDecimal(1);
    }
    return idColVar;
}

public Map HomeDataCount() throws SQLException{
    Map<String,String> maps=new HashMap();
    Statement s=connection.createStatement();
    String sql="select (select count(*) from station) as station,\n" +
    " (select count(*) from route) as route,\n" +
    " (select count(*) from trains) as trains,\n" +
    " (select count(*) from complaints) as complaints,\n" +
    " (select count(*) from metro_card) as metro_card,\n" +
    " (select count(*) from trip)";
    ResultSet executeQuery = s.executeQuery(sql);
    ResultSetMetaData res=executeQuery.getMetaData();
    int numColumns = res.getColumnCount();
    while(executeQuery.next())
    {
        for(int i=1;i<=numColumns;i++){
            maps.put(res.getColumnName(i),executeQuery.getString(i));
        }
    }
    return maps;
}

```

```

/**
 *
 * @param pay_id
 * @param amt
 * @param req_id
 * @return Stations
 * @throws java.io.IOException
 * @throws SQLException
 */
public Map<String, String> RechargeProcess(String pay_id, String req_id) throws
IOException, SQLException{
    Map<String, String> AllData=new HashMap<>();
    PayMentCheckApi Checker=new PayMentCheckApi();
    JSONObject jsons=Checker.CheckPaymentProcess(pay_id);
    if(Objects.equals(jsons.get("success").toString(), "false")){
        AllData.put("status", "failed");
    }
    else if(Objects.equals(jsons.get("success").toString(), "true")){
        JSONObject payment=(JSONObject)jsons.get("payment");
        if(Objects.equals(payment.get("status").toString(), "Credit")){
            if(CheckAlreadyRecharge(pay_id)){
                AllData.put("status", "already");
            }
            else{
                if(UpdateBalance(pay_id, payment.get("amount").toString(), req_id)){
                    AllData.put("status", "success");
                }
                else{
                    AllData.put("status", "admin");
                }
            }
        }
        else {
            AllData.put("status", "failed");
        }
    }
    return AllData;
}

```

```

public Boolean CheckAlreadyRecharge(String pay_id) throws SQLException{
    Boolean status=true;
    Statement s=connection.createStatement();
    String sql="SELECT * FROM `card_recharges` WHERE `paymentid`='"+pay_id+"'
and `status`='complete'";
    ResultSet executeQuery = s.executeQuery(sql);
    ResultSetMetaData res=executeQuery.getMetaData();
    int numColumns = res.getColumnCount();
    int loop=0;
    while(executeQuery.next())
    {
        loop=1;
    }
    if(loop==0){
        status=false;
    }
    else{
        status=true;
    }
    return status;
}
public Boolean UpdateBalance(String Pay_id,String Amt,String id) throws
SQLException{
    Statement s=connection.createStatement();
    Boolean status=false;
    int ss= s.executeUpdate("UPDATE `card_recharges` SET
`status`='complete',`amount`='"+Amt+"',`paymentid`='"+Pay_id+"' WHERE
txnid='"+id+"');

    if(ss>0){
        String cardno=GetCarNoByReqId(id);
        if(cardno==null){           status=false;          }
        else{
            int ss2=s.executeUpdate("UPDATE `metro_card` SET
`balance`=balance '"+Amt+"' WHERE `card_num`='"+cardno+"'");
            if(ss2>0){           status=true;          }
            else{
                status=false;
            }
        }
    }
    else{
        status=false;
    }
    return status;
}

```

```

public String GetCarNoByReqId(String tx_id) throws SQLException{
    String card=null;
    Statement s=connection.createStatement();
    String sql="SELECT * FROM `card_recharges` WHERE `txn_id`='"+tx_id+"'";
    ResultSet executeQuery = s.executeQuery(sql);
    ResultSetMetaData res=executeQuery.getMetaData();
    int numColumns = res.getColumnCount();
    while(executeQuery.next())
    {
        for(int i=1;i<=numColumns;i++){
            if(Objects.equals(res.getColumnLabel(i), "card_num")){
                card=executeQuery.getString(i);
            }
        }
        break;
    }
    return card;
}

public JSONArray GetStation(String key) throws SQLException{
    JSONArray StationList=new JSONArray();
    Statement s=connection.createStatement();
    String sql="select s_name from station where s_name like '%"+key+"%'";
    ResultSet executeQuery = s.executeQuery(sql);
    ResultSetMetaData res=executeQuery.getMetaData();
    int numColumns = res.getColumnCount();
    while(executeQuery.next())
    {
        for(int i=1;i<=numColumns;i++){
            StationList.add(executeQuery.getString(i));
        }
    }
    return StationList;
}

```

```

public String getStationId(String Station) throws SQLException{
    String station_id=null;
    Statement s=connection.createStatement();
    String sql="select id,s_name from station where s_name like '%"+Station+"%'";
    ResultSet executeQuery = s.executeQuery(sql);
    ResultSetMetaData res=executeQuery.getMetaData();
    int numColumns = res.getColumnCount();
    while(executeQuery.next())
    {
        for(int i=1;i<=numColumns;i++){
            station_id=executeQuery.getString(i);
            break;
        }
        break;
    }
    return station_id;
}
public List<Map<String,String>> fetchTrains(String start,String end) throws
SQLException{
    String start_id=this.getStationId(start);
    String end_id=this.getStationId(end);
    String sql="SELECT a.`arrival_time` as sa_time,a.`departure_time` as
sd_time,b.`arrival_time` as ea_time,b.`departure_time` as ed_time,a.trip_num as
trip_id,c.train_id as train_id,d.train_no as train FROM `trip_details` a,trip_details b,trip
c,trains d WHERE a.`station_id`='"+start_id+"' and b.`station_id`='"+end_id+"' and
a.`trip_num`=b.`trip_num` and c.id=a.trip_num and d.id=c.train_id";
}

```

```

Statement s=connection.createStatement();
ResultSet executeQuery = s.executeQuery(sql);
ResultSetMetaData res=executeQuery.getMetaData();
int numColumns = res.getColumnCount();
List<Map<String,String>> list=new ArrayList<>();
Map<String,String> rows;
while(executeQuery.next())
{
    rows=new HashMap();
    for(int i=1;i<=numColumns;i++){
        rows.put(res.getColumnLabel(i),executeQuery.getString(i));
    }
}

```

```

        list.add(rows);
    }

    return list;
}

public JSONObject getTripDetails(String Station_s,String Station_e) throws
SQLException{
    JSONObject Trips=new JSONObject();
    String start_id=this.getStationId(Station_s);
    String end_id=this.getStationId(Station_e);
    String Start_lat=null;
    String Start_lng=null;
    String End_lat=null;
    String End_lng=null;

    String sql="SELECT a.id as id,a.`station_id` as start_id,b.`station_id` as
end_id,a.route_id as start_route,b.route_id as           end_route FROM
`route_details` a,route_details b WHERE a.`station_id`='"+start_id+"' and
b.`station_id`='"+end_id+"' and a.`route_id`=b.`route_id` limit 1";
}

Statement s=connection.createStatement();
ResultSet executeQuery = s.executeQuery(sql);
ResultSetMetaData res=executeQuery.getMetaData();
int numColumns = res.getColumnCount();
JSONObject rows1 = new JSONObject();
int LoopRun=0;
while(executeQuery.next())
{
    for(int i=1;i<=numColumns;i++){

        rows1.put(res.getColumnLabel(i),executeQuery.getString(i));
    }
    LoopRun=1;

}
if(LoopRun==0){
    return this.AlternateTrip(start_id,end_id);
}

```

```

System.out.println(rows1.toString());
if(Objects.equals(rows1.get("start_route"),rows1.get("end_route"))){
    ResultSet executeQueryRoute = s.executeQuery("SELECT
route_details.route_id,route_details.station_id,route_details.s_order_num,station.s_name,station.latitude,station.longitude,route_details.length_from_start FROM route_details
INNER JOIN station ON route_details.station_id=station.id WHERE
route_details.`route_id`='"+rows1.get("start_route")+"' ORDER BY
route_details.s_order_num");

ResultSetMetaData resRoute=executeQueryRoute.getMetaData();
int numColumnsRoute = resRoute.getColumnCount();

JSONArray routeArray=new JSONArray();
String Start_Distance=null;
String End_Distance=null;
while(executeQueryRoute.next())
{
    JSONObject rowsRoute = new JSONObject();
    for(int i=1;i<=numColumnsRoute;i++){

rowsRoute.put(resRoute.getColumnLabel(i),executeQueryRoute.getString(i));
    if(Objects.equals(resRoute.getColumnLabel(i),"station_id")){
        if(Objects.equals(executeQueryRoute.getString(i),start_id)){

Start_Distance=executeQueryRoute.getString("length_from_start");
        Start_lat=executeQueryRoute.getString("latitude");
        Start_lng=executeQueryRoute.getString("longitude");
    }
    else if(Objects.equals(executeQueryRoute.getString(i),end_id)){

End_Distance=executeQueryRoute.getString("length_from_start");
        End_lat=executeQueryRoute.getString("latitude");
        End_lng=executeQueryRoute.getString("longitude");
    }
}
    routeArray.add(rowsRoute);

}
JSONArray jsons=new JSONArray();
jsons.add(routeArray);
Trips.put("route",jsons);
if(Start_Distance==null){
    return new JSONObject();
}
}

```

```

else if(End_Distance==null){
    return new JSONObject();
}
int Total_Distance=Integer.parseInt(Start_Distance)-
Integer.parseInt(End_Distance);
int final_distance;
if(Total_Distance>=0){
    final_distance=Total_Distance;
}
else{
    final_distance=Total_Distance*-1;
}
System.err.println("Final Distance"+final_distance);
String fQ="SELECT MIN(`amt`) as amt FROM `fair` WHERE
`min_distances`<="+final_distance+" and `max_distances`>"+final_distance;
ResultSet executeQueryFair = s.executeQuery(fQ);
ResultSetMetaData resFair=executeQueryFair.getMetaData();
int numColumnsFair = resFair.getColumnCount();
JSONObject rowsFair = new JSONObject();
while(executeQueryFair.next())
{
    for(int i=1;i<=numColumnsFair;i++){
rowsFair.put(resFair.getColumnLabel(i),executeQueryFair.getString(i));
    }
    break;
}

Trips.put("fair",rowsFair.get("amt"));
Trips.put("start_lat",Start_lat);
Trips.put("start_lng",Start_lng);
Trips.put("end_lat",End_lat);
Trips.put("end_lng",End_lng);
}
else{
    System.err.println("No data");
}
return Trips;
}

```

```

private JSONObject AlternateTrip(String start_id,String end_id) throws SQLException
{
    String Start_lat=null;
    String Start_lng=null;
    String End_lat=null;
    String End_lng=null;
    JSONObject Trip=new JSONObject();
    JSONArray MyjsonArray=new JSONArray();
    String sql="SELECT a.id as id,a.`station_id` as start_id,b.`station_id` as
end_id,a.route_id as start_route,b.route_id as           end_route FROM
`route_details` a,route_details b WHERE a.`station_id`='"+start_id+"' and
b.`station_id`='"+end_id+"' limit 1 ";
    JSONObject rows1 = new JSONObject();

    Statement s=connection.createStatement();
    ResultSet executeQuery = s.executeQuery(sql);
    ResultSetMetaData res=executeQuery.getMetaData();
    int numColumns = res.getColumnCount();

    while(executeQuery.next())
    {
        System.out.println("error");

        for(int i=1;i<=numColumns;i++){
            rows1.put(res.getColumnLabel(i),executeQuery.getString(i));
        }
        break;
    }

    ResultSet executeQueryRoute1 = s.executeQuery("SELECT
route_details.route_id,route_details.station_id,route_details.s_order_num,station.s_name,
station.latitude,station.longitude,route_details.length_from_start FROM route_details
INNER JOIN station ON route_details.station_id=station.id WHERE
route_details.`route_id`='"+rows1.getString("start_route")+"' ORDER BY
route_details.s_order_num");

    ResultSetMetaData res1=executeQueryRoute1.getMetaData();
    int numColumns1 = res1.getColumnCount();
}

```

```

while(executeQueryRoute1.next())
{
    JSONObject route1=new JSONObject();

    for(int i=1;i<=numColumns1;i++){

        route1.put(res1.getColumnLabel(i),executeQueryRoute1.getString(i));
        if(Objects.equals(res1.getColumnLabel(i), "station_id")){
            if(Objects.equals(executeQueryRoute1.getString(i),start_id)){
                Start_lat=executeQueryRoute1.getString("latitude");
                Start_lng=executeQueryRoute1.getString("longitude");
            }
            else if(Objects.equals(executeQueryRoute1.getString(i),end_id)){
                End_lat=executeQueryRoute1.getString("latitude");
                End_lng=executeQueryRoute1.getString("longitude");
            }
        }
        MyJSONArray.add(route1);
    }

    ResultSet executeQueryRoute2 = s.executeQuery("SELECT
route_details.route_id,route_details.station_id,route_details.s_order_num,station.s_name,s
tation.latitude,station.longitude,route_details.length_from_start FROM route_details
INNER JOIN station ON route_details.station_id=station.id WHERE
route_details.`route_id`='"+rows1.get("end_route")+"' ORDER BY
route_details.s_order_num");

    ResultSetMetaData res2=executeQueryRoute2.getMetaData();
    int numColumns2 = res2.getColumnCount();

    while(executeQueryRoute2.next())
    {
        JSONObject route2=new JSONObject();
        for(int i=1;i<=numColumns2;i++){

            route2.put(res2.getColumnLabel(i),executeQueryRoute2.getString(i));
            if(Objects.equals(res2.getColumnLabel(i), "station_id")){
                if(Objects.equals(executeQueryRoute2.getString(i),start_id)){
                    Start_lat=executeQueryRoute2.getString("latitude");
                    Start_lng=executeQueryRoute2.getString("longitude");
                }
                else if(Objects.equals(executeQueryRoute2.getString(i),end_id)){
                    End_lat=executeQueryRoute2.getString("latitude");
                    End_lng=executeQueryRoute2.getString("longitude");
                }
            }
            MyJSONArray.add(route2);
        }
    }
}

```

```

JSONArray jss=new JSONArray();
    Double
distance=distance(Double.parseDouble(Start_lat),Double.parseDouble(Start_lng),Double.
parseDouble(End_lat),Double.parseDouble(End_lng),"K");

jss.add(MyjsonArray);

String fQ="SELECT MIN(`amt`) as amt FROM `fair` WHERE
`min_distances`<='"+distance+"' and `max_distances`>"+distance+"";
    ResultSet executeQueryFair = s.executeQuery(fQ);
    ResultSetMetaData resFair=executeQueryFair.getMetaData();
    int numColumnsFair = resFair.getColumnCount();
    JSONObject rowsFair = new JSONObject();
    while(executeQueryFair.next())
    {
        for(int i=1;i<=numColumnsFair;i++){
rowsFair.put(resFair.getColumnLabel(i),executeQueryFair.getString(i));
        }
        break;
    }
    System.out.println("Dis"+String.valueOf(distance));
Trip.put("route",jss);
Trip.put("fair",rowsFair.getString("amt"));
Trip.put("start_lat",Start_lat);
Trip.put("start_lng",Start_lng);
Trip.put("end_lat",End_lat);
Trip.put("end_lng",End_lng);
return Trip;
}

private static double distance(double lat1, double lon1, double lat2, double lon2,
String unit) {
    double theta = lon1 - lon2;
    double dist = Math.sin(deg2rad(lat1)) * Math.sin(deg2rad(lat2)) +
Math.cos(deg2rad(lat1)) * Math.cos(deg2rad(lat2)) * Math.cos(deg2rad(theta));
    dist = Math.acos(dist);
    dist = rad2deg(dist);
    dist = dist * 60 * 1.1515;
    if (unit == "K") {
        dist = dist * 1.609344;
    } else if (unit == "N") {
        dist = dist * 0.8684;
    }
    return (dist);
}

```

```
/*
 *:: This function converts decimal degrees to radians
 */
/*
 *:: This function converts radians to decimal degrees
 */
private static double deg2rad(double deg) {
    return (deg * Math.PI / 180.0);
}

private static double rad2deg(double rad) {
    return (rad * 180 / Math.PI);
}

}
```

src/java/com/metrorail/PaymentApi.java

```
package com.metrorail;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.OutputStream;
import java.net.HttpURLConnection;
import java.net.URL;
import java.util.logging.Level;
import java.util.logging.Logger;
import org.json.simple.JSONObject;
import org.json.simple.parser.JSONParser;
import org.json.simple.parser.ParseException;
/**
 *
 * @author sanjeev
 */
public class PayMentApi {
    private static final String USER_AGENT = "Mozilla/5.0";
    private static final String POST_URL =
"https://test.instamojo.com/api/1.1/payment-requests/";
    public JSONObject sendPOST(String amount, String phone, String name, String
email) throws IOException {
        String POST_PARAMS =
"purpose=MetroCard&amount="+amount+"&phone=+919205878477&buyer_name="+n
ame+"&redirect_url=http://marvellouswebsites.com/sanjeev/res.php&send_email=true&
webhook=http://marvellouswebsites.com/sanjeev/res.php&send_sms=true&email="+ema
il+"&allow_repeated_payments=false";

        URL obj = new URL(POST_URL);
        HttpURLConnection con = (HttpURLConnection) obj.openConnection();
        con.setRequestMethod("POST");
        con.setRequestProperty("User-Agent", USER_AGENT);
        con.setRequestProperty("X-Api-Key", "test_e1b0cf472589266636d94650e52");
        con.setRequestProperty("X-Auth-Token",
"test_d89d34a5e25be4af17337d8c8f2");

        // For POST only - START
        System.out.println(POST_PARAMS);
        con.setDoOutput(true);
        OutputStream os = con.getOutputStream();
        os.write(POST_PARAMS.getBytes());
        os.flush();
        os.close();
    }
}
```

```

int responseCode = con.getResponseCode();
JSONObject res=new JSONObject();
System.out.println("POST Response Code :: " + responseCode);

//if (responseCode == HttpURLConnection.HTTP_OK) { //success
    BufferedReader in = new BufferedReader(new InputStreamReader(
        con.getInputStream()));
    String inputLine;
    StringBuffer response = new StringBuffer();

    while ((inputLine = in.readLine()) != null) {
        response.append(inputLine);
    }
    in.close();

    // print result
    System.out.println(response.toString());
    String allda=response.toString();
    JSONParser jSONParser=new org.json.simple.parser.JSONParser();

try {
    res=(JSONObject)jSONParser.parse(allda);
} catch (ParseException ex) {
    Logger.getLogger(PayMentApi.class.getName()).log(Level.SEVERE, null, ex);
}

//} else {
//    System.out.println("POST request not worked");
//}

return res;
}

}

```

src/java/com/metrorail/PaymentCheckApi.java

```
package com.metrorail;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.OutputStream;
import java.net.HttpURLConnection;
import java.net.URL;
import java.util.logging.Level;
import java.util.logging.Logger;
import org.json.simple.JSONObject;
import org.json.simple.parser.JSONParser;
import org.json.simple.parser.ParseException;
/**
 *
 * @author sanjeev
 */
public class PayMentCheckApi {

    private static final String USER_AGENT = "Mozilla/5.0";

    public JSONObject CheckPaymentProcess(String Pay_id) throws IOException {
        String POST_URL = "https://test.instamojo.com/api/1.1/payments/" + Pay_id;

        URL obj = new URL(POST_URL);
        HttpURLConnection con = (HttpURLConnection) obj.openConnection();
        con.setRequestMethod("GET");
        con.setRequestProperty("User-Agent", USER_AGENT);
        con.setRequestProperty("X-Api-Key", "test_e1b0cf472589266636d94650e52");
        con.setRequestProperty("X-Auth-Token",
                "test_d89d34a5e25be4af17337d8c8f2");
    }
}
```

```

int responseCode = con.getResponseCode();
    JSONObject res=new JSONObject();
System.out.println("POST Response Code :: " + responseCode);

BufferedReader in = new BufferedReader(new InputStreamReader(
        con.getInputStream()));
String inputLine;
StringBuffer response = new StringBuffer();

while ((inputLine = in.readLine()) != null) {
    response.append(inputLine);
}
in.close();

System.out.println(response.toString());
String allda=response.toString();
JSONParser jSONParser=new org.json.simple.parser.JSONParser();
try {
    res=(JSONObject)jSONParser.parse(allda);
} catch (ParseException ex) {
    Logger.getLogger(PayMentApi.class.getName()).log(Level.SEVERE, null, ex);
}

return res;
}

}

```

css/style.css

```
body{  
background: rgb(226,226,226); /* Old browsers */  
background: -moz-linear-gradient(top, rgba(226,226,226,1) 0%, rgba(219,219,219,1) 50%,  
rgba(209,209,209,1) 51%, rgba(254,254,254,1) 100%); /* FF3.6-15 */  
background: -webkit-linear-gradient(top, rgba(226,226,226,1) 0%,rgba(219,219,219,1)  
50%,rgba(209,209,209,1) 51%,rgba(254,254,254,1) 100%); /* Chrome10-25,Safari5.1-6 */  
background: linear-gradient(to bottom, rgba(226,226,226,1) 0%,rgba(219,219,219,1)  
50%,rgba(209,209,209,1) 51%,rgba(254,254,254,1) 100%); /* W3C, IE10+, FF16+, Chrome26+,  
Opera12+, Safari7+ */  
filter: progid:DXImageTransform.Microsoft.gradient( startColorstr='#e2e2e2',  
endColorstr='#fefefe',GradientType=0 ); /* IE6-9 */  
}  
  
div.row nav{  
margin-bottom:0px;  
}  
  
.carousel-inner{  
max-height: 330px;  
overflow: hidden;  
}  
  
.display-block{  
display: block;  
}  
  
a.logo{  
width: 180px;  
}  
  
footer{  
background: #101010;  
text-align: center;  
padding: 10px;  
color:#fff;  
}  
  
.homecontent{  
background: #eee;  
padding: 10px;  
border-radius: 10px;  
margin: 5px;  
box-shadow: 5px 5px 5px whitesmoke;  
}  
  
.homeside{  
background:#eee;  
text-align: center;  
padding: 10px;  
border-radius: 15px;  
margin-bottom: 10px;  
box-shadow: 5px 5px 5px whitesmoke;  
}
```

```
.admin-form{
    margin-top: 50px;
    border: 1px solid #b4adad;
    background: white;
    border-radius: 15px;
    box-shadow: 5px 5px 5px #837e7e;
    overflow: hidden;
}
.admin-box {
    position: relative;
    height: 200px;
    width: 100%;
    padding: 10px;
    margin: 10px 0px 10px 0px;
    box-shadow: 3px 3px 3px grey;
    font-family: serif;
}
.home-box-span{
    position: absolute;
    bottom: 25px;
    font-size: 3em;
    left: 20px;
}
.routes-div .col-lg-12 {
    margin-bottom: 8px;
}
.snackbar{
    background: black;
    color: white;
    width: 100%;
    padding: 10px;
    display: none;
    position: fixed;
    bottom: 0;
}
.red-bg{
    background: #c9302c;
    color: #FFF;
}
```

```
.pink-bg{  
background:#c7254e;  
color:#FFF;  
}  
.home-box-h4{  
font-size: 2.4em;  
font-weight: bold;  
}  
.blue-bg{  
background:#2e6da4;  
color:#FFF;  
}  
.green-bg{  
background: #398439;  
color:#FFF;  
}  
.yellow-bg{  
background: #ff0;  
color:#080808;  
}  
.orange-bg{  
background: orange;  
color:#FFF;  
}  
.purple-bg{  
background: purple;  
color: #FFF;  
}  
.homecontent .admin-form h3{  
margin-top: 0px;  
margin-left: -15px;  
margin-right: -15px;  
}  
.homeside img{  
margin-left: auto;  
margin-right: auto;  
}  
.homeside p{  
padding: 10px;  
font-family: serif;  
}
```

```
.homecontent h3,.homenews h3,.homeside h3{  
    background: dodgerblue;  
    color: white;  
    padding: 10px;  
    margin-left: -8px;  
    margin-right: -9px;  
    margin-top: -10px;  
}  
.timingtable{  
    background: #eee;  
    padding: 10px;  
    border-radius: 10px;  
    margin: 5px;  
    margin-top: 15px;  
    box-shadow: 5px 5px 5px whitesmoke;  
}  
.timingtable h4{  
    background: dodgerblue;  
    color: white;  
    padding: 10px;  
    margin-left: -8px;  
    margin-right: -9px;  
    margin-top: -10px;  
}  
.card-content{  
    text-align: center;  
    font-size: 2em;  
    line-height: 2em;  
    margin-top: 60px;  
}  
.card-side li:hover,.card-side li.active{  
    background: white;  
    color: dodgerblue;  
}  
.balance-p{  
    text-align: center;  
    background: #d58512;  
    color: white;  
    padding: 10px;  
}
```

```
.card-side li{
    background: dodgerblue;
    padding: 10px;
    margin-top: 10px;
    list-style: none;
    text-align: left;
    color: white;
}
.card-side li a{
    display: block;
    color: inherit;
    text-decoration: none;
}
.card-side li a:hover{
    color: dodgerblue;
}
.route-h3{
    overflow: hidden;
    background: #aadaff;
    color: white;
    padding: 10px;
    border: 1px solid aliceblue;
    border-radius: 6px;
    color: #4d4b4b;
}
.homenews{
    margin: 5px;
    background: #eee;
    padding: 10px;
    border-radius: 10px;
    box-shadow: 5px 5px 5px whitesmoke;
}
.padding-label{
    padding-top: 5px;
}
```

External Library

css/bootstrap.min.css = For Responsive Web Design Framework

js/bootstrap.min.js = For Responsive Page Behaviour

js/jquery.min.js = For JavaScript (JavaScript Framework) for Fast Writing Codes

Chapter 5

Testing

5.1 Types of Testing

There are many types of testing like

- Unit Testing
- Integration Testing
- Functional Testing
- System Testing
- Stress Testing
- Performance Testing
- Usability Testing
- Acceptance Testing
- Regression Testing
- Beta Testing

Unit Testing

Unit testing is the testing of an individual unit or group of related units. It falls under the class of white box testing. It is often done by the programmer to test that the unit he/she has implemented is producing expected output against given input.

Integration Testing

Integration testing is testing in which a group of components are combined to produce output. Also, the interaction between software and hardware is tested in integration testing if software and hardware components have any relation. It may fall under both white box testing and black box testing.

Functional Testing

Functional testing is the testing to ensure that the specified functionality required in the system requirements works. It falls under the class of black box testing.

System Testing

System testing is the testing to ensure that by putting the software in different environments (e.g., Operating Systems) it still works. System testing is done with full system implementation and environment. It falls under the class of black box testing.

Stress Testing

Stress testing is the testing to evaluate how system behaves under unfavorable conditions. Testing is conducted at beyond limits of the specifications. It falls under the class of black box testing.

Performance Testing

Performance testing is the testing to assess the speed and effectiveness of the system and to make sure it is generating results within a specified time as in performance requirements. It falls under the class of black box testing.

Usability Testing

Usability testing is performed to the perspective of the client, to evaluate how the GUI is user-friendly? How easily can the client learn? After learning how to use, how proficiently can the client perform? How pleasing is it to use its design? This falls under the class of black box testing.

Acceptance Testing

Acceptance testing is often done by the customer to ensure that the delivered product meets the requirements and works as the customer expected. It falls under the class of black box testing.

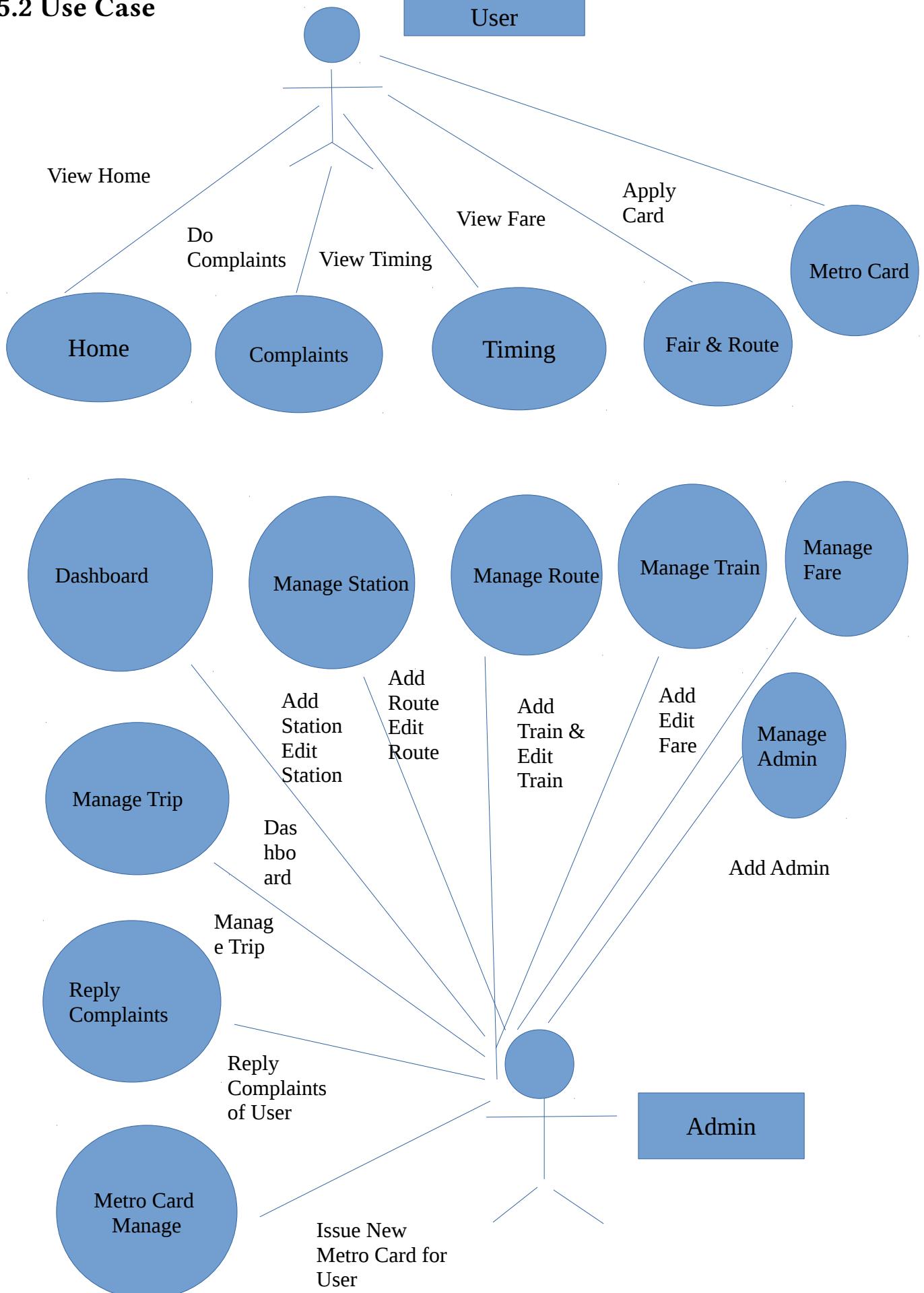
Regression Testing

Regression testing is the testing after modification of a system, component, or a group of related units to ensure that the modification is working correctly and is not damaging or imposing other modules to produce unexpected results. It falls under the class of black box testing.

Beta Testing

Beta testing is the testing which is done by end users, a team outside development, or publicly releasing full pre-version of the product which is known as beta version. The aim of beta testing is to cover unexpected errors. It falls under the class of black box testing.

5.2 Use Case



5.3 Test Cases

Pages	Input	Output
Complaint	Name, Email Age Phone Address Message	If Complains Received Your Complaint Received Successfully! Else Error During Submitting Your Complaints!
Timing	Source Station Destination Station	List Of Trains Containing. Train no. From Source: Arrival,Departure From Dest: Arrival,Departure
Fair	Source station Destination Station	Charges Details, Map with Routes
Metro card Apply	Name, phone, Age, email, Address	Request for Metro Card Has been Accepted Successfully.
Metro Card Balance	Card no, password	Current Balance is Rs.balance
Admin Login	Email, password	If wrong Credentails Invalid Login Details! Else Login Successfully! Redirecting...
Add Station	Station name, latitude, longitude	If success Added Successfully else Error During Adding Station
Add Route	Route name,	If success Added

	station, position,distance	Successfully else Error During Adding Route
Add Train	Train no, Capacity	If success Added Successfully else Error During Adding Train

Chapter 6

Implementation

For Implementing this System we need A Apache Tomcat Server With JSP Supporting and Mysql for Backend Database Also we Need a Domain.

Shared Tomcat

This is shared Tomcat hosting and, as you might know from experience with other types of hosting, involves splitting the available Tomcat server resources and Java Virtual Memory (JVM) Heap with other users on the Tomcat server.

Chapter 7

Future Scope

Since currently Refundable system in not implemented in this web app . So in Future we solved this problem by add refundable option also for users. Also we need to test this web app time to time as for everything working properly in future. In future we also subadmin's where admin give permission to acces the whole site but also had limit on some access which is only access by admin.

Chapter 8

Conclusion

The project entitled **Metro Rail Management** Online was completed successfully.

The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application for metro rail management .

This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using html &css, usage of responsive templates, designing of android applications, and management of database using mysql . The entire system is secured. Also the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project.

This project has given us great satisfaction in having designed an application which can be implemented to any nearby shops or branded shops selling various kinds of products by simple modifications. There is a scope for further development in our project to a great extend. A number of features can be added to the system in future like watch me module, each admin having separate permissions.

Chapter 9

References

- [1] Cody Lindley ,”JavaScript Enlightenment”,First Edition,
ECMA-262
,2007
- [2] Google
- [3] StackOverflow