



Project Report

on

Bus Management System

Submitted by

Nishant

Enrollment No.: 176011833
BCA

Under guidance of

Mrs. Shuruti Singhal (MCA)

GitHub.com/NishantTheProgrammer/BusManagementSystem

INDIRA GANDHI NATIONAL OPEN UNIVERSITY
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Introduction

Busses are the most frequently available and most used vehicle for going from small distance trip to very long trip. There're a no. of types of buses available in the market according to the private or public.

In our case we're about to start a new bus company (Shivaji Roadways) this company don't want to go traditionally for management of the system manually.

So that we're here to make a project which will be manage all the works related to database management and other operation such as E-ticket booking, Fair checking, estimated time for reaching location, Selecting best route etc.

Bus Management System is a web based management system. This system will ensure that the management process of this company are smoothly done. This system will also help in decreasing error mostly cause by human mistake. This system will develop as one the solution to transfer from current manual practices to a more systematic computerization system. This system will be developed by using HTML, CSS, JSP, JavaScript, and MySQL and will about to be run on Apache Tomcat 9.0 server on Windows 10.

Briefly there are three main modules for this system. The first module will be The Passenger Management System, the second module will be The Staff Management System and last one is for Company.

Objective

The main objective of the Bus Management System is to manage the details of the following:

1. Details for Passengers

- **Distance** to inform Passengers how far are they from their destination (Distance between current location to destination).
- **Fare** to inform them about cost for ticket for both non A/C busses (**₹5/ ₹10/ ₹15**) and A/C busses (**₹10/ ₹15/ ₹20/ ₹25**).
- **Time** to inform them about estimated time for reaching destination from where he/she is.
- **Route** to suggest passengers best route for reaching a particular location with having less traffic jam and less taken time to complete out the journey.
- **E-Ticket** to provide facility for buy a ticket online.

2. Details for Staff

- **Salary** information regarding the salary of the employee such as salary package amount, and whole table about previous received salary.
- **Leave** Staff such as Driver, Conductor, Ticket checker and other peoples can online apply for a leave.
- **E-Report** they can report online if bus is being faulty.
- **Request for Transfer / Promotion** they can request for a transfer if their family is shifting somewhere else and also they can request for promotion if they think the sum of salary given by company is not negligible in respect of workload.
- **Fair** they can too know fairs (In such cases in arguing with passengers).

3. Details for Company(Admin)

- **Updating Fairs** bus company have right to increase or decrees fairs so that we'll prove facility for do that.
- **Updating Routes** company will be able to maintain flow of busses to maximize profit by avoiding broken roads and heavy traffic jams and other issues.
- **Issuing more busses** if company purchases some new buses or get them on rent for temporary or permanent bases, we'll provide a portal for updating information regarding new buses for maintain manageability.
- **Introducing New Route** company can introduce new routes, let's take a real world scenario to know the importance of this. When the Signature bridge was under construction and the alter one (bridge of Wazirabad) was also under maintenance so that was the point when Dehli Transport Corporation (DTC) was introduce new route for 971 via Kashmiri gate. To implement it efficiently we'll provide this module.
- **Staff Payment** this will store all the details of payments for staff this will also visible in for staff.
- **Policies of Company** This section will provide all the details about company policies to avoid misconception of staff duty and liabilities and other things.

Tools / Environment Used

Hardware Requirements

- **Operating System:** Windows 7/8/8.1/10
- **Hard Disks:** 40GB
- **RAM:** 256MB
- **GPS:** Needed
- **Graphic Card:** Decent
- **NIC:** Needed

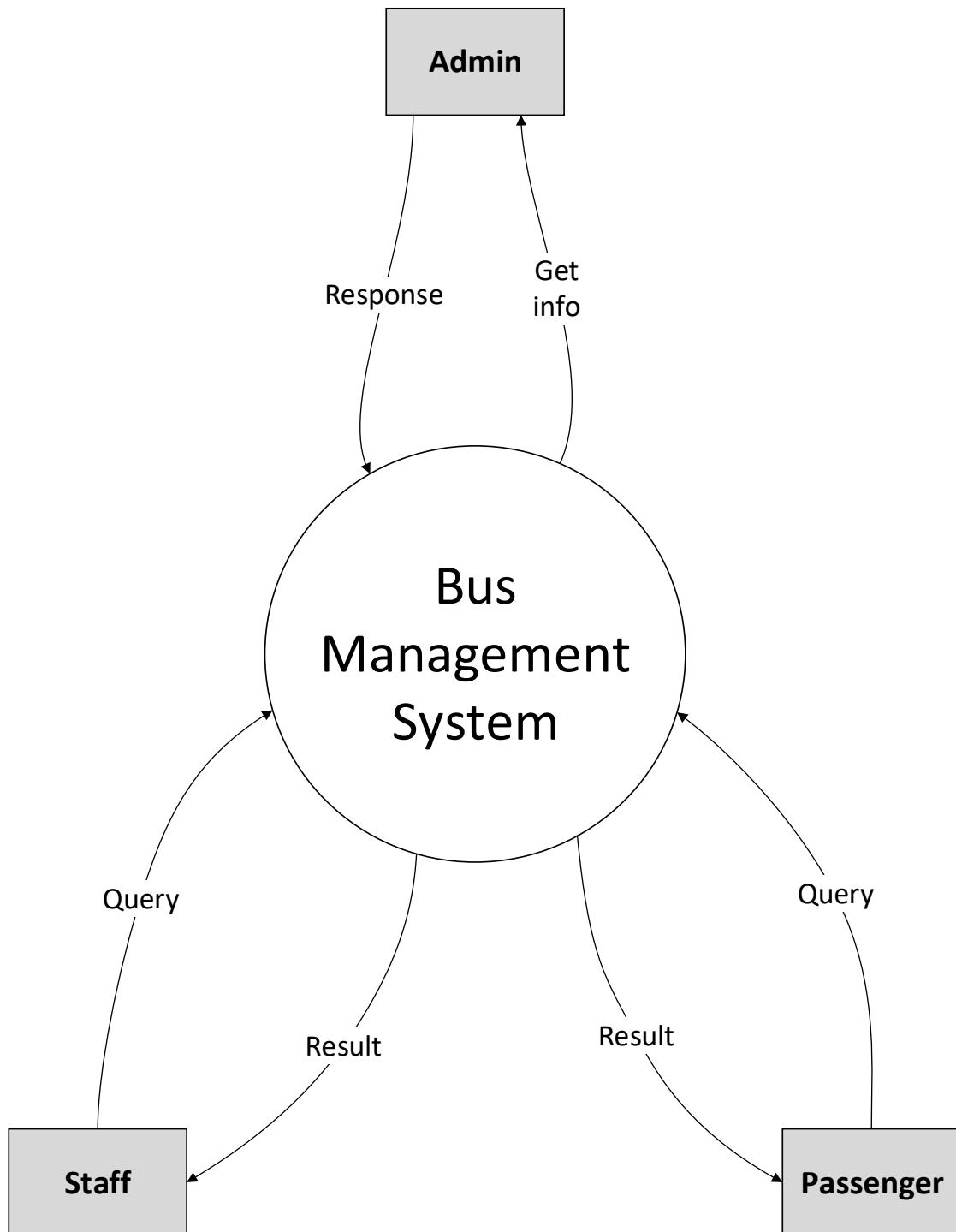
Software Requirements

- **Java 1.8 (JDK+JRE)**
- **HTML, CSS and JavaScript**
- **MySQL 8.0**
- **Apache Tomcat 9.0**
- **GitBash 2.24**
- **JDBC Connectors**
- **Google Chrome (Browser)**
- **Visual Studios Code (IDE)**

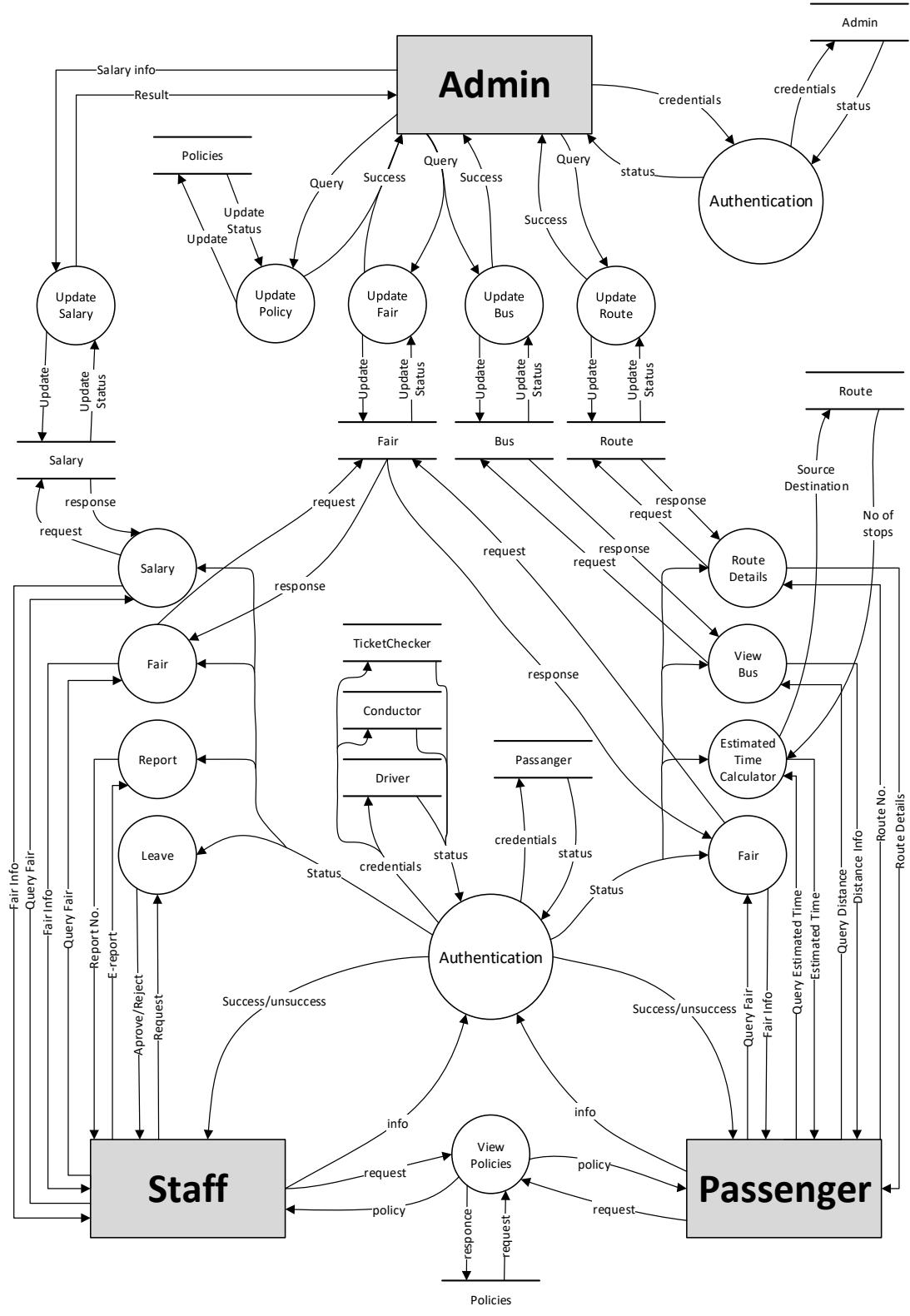
Analysis Documents

Data Flow Diagram

Level 0 DFD

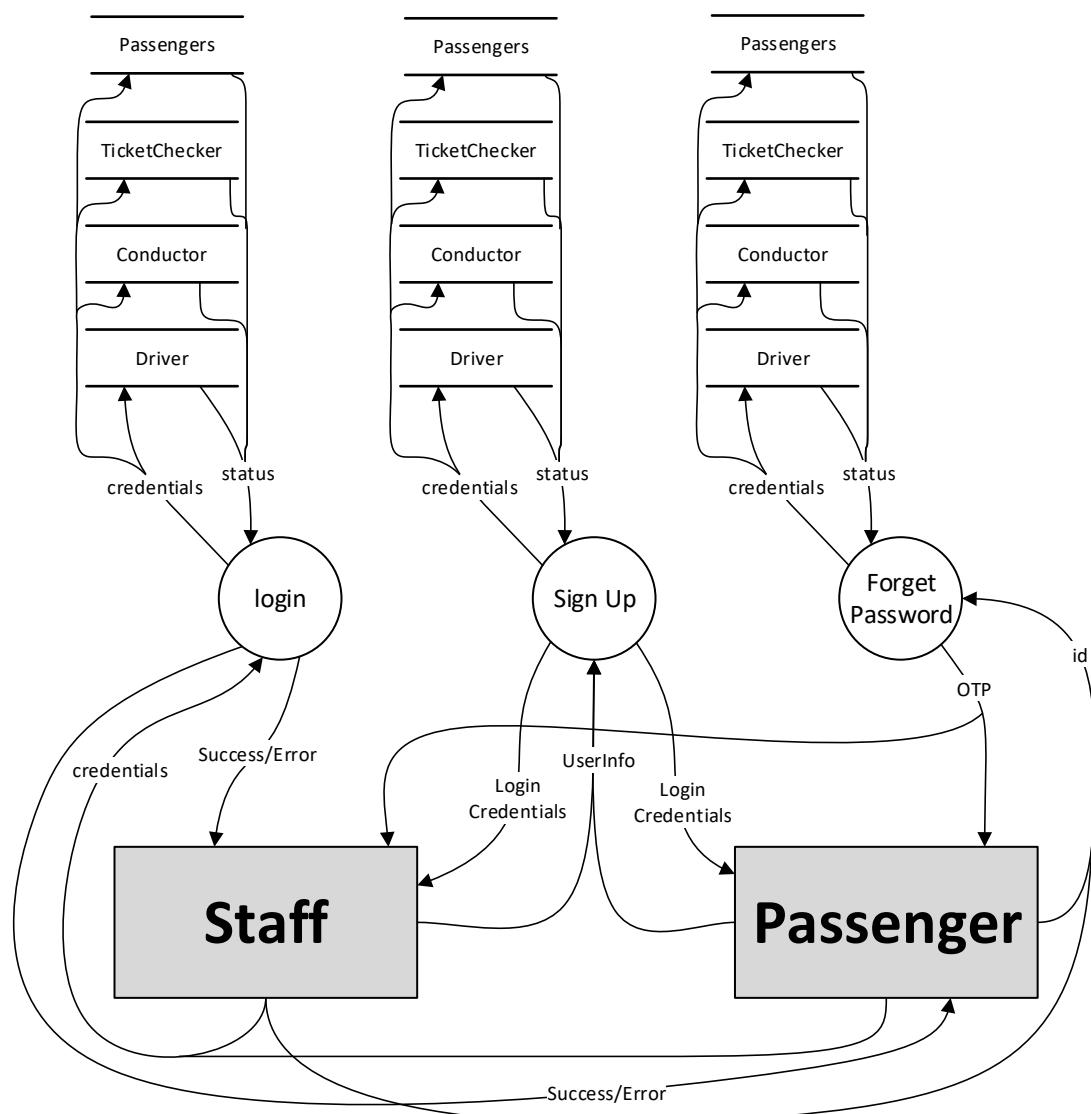


Level 1 DFD

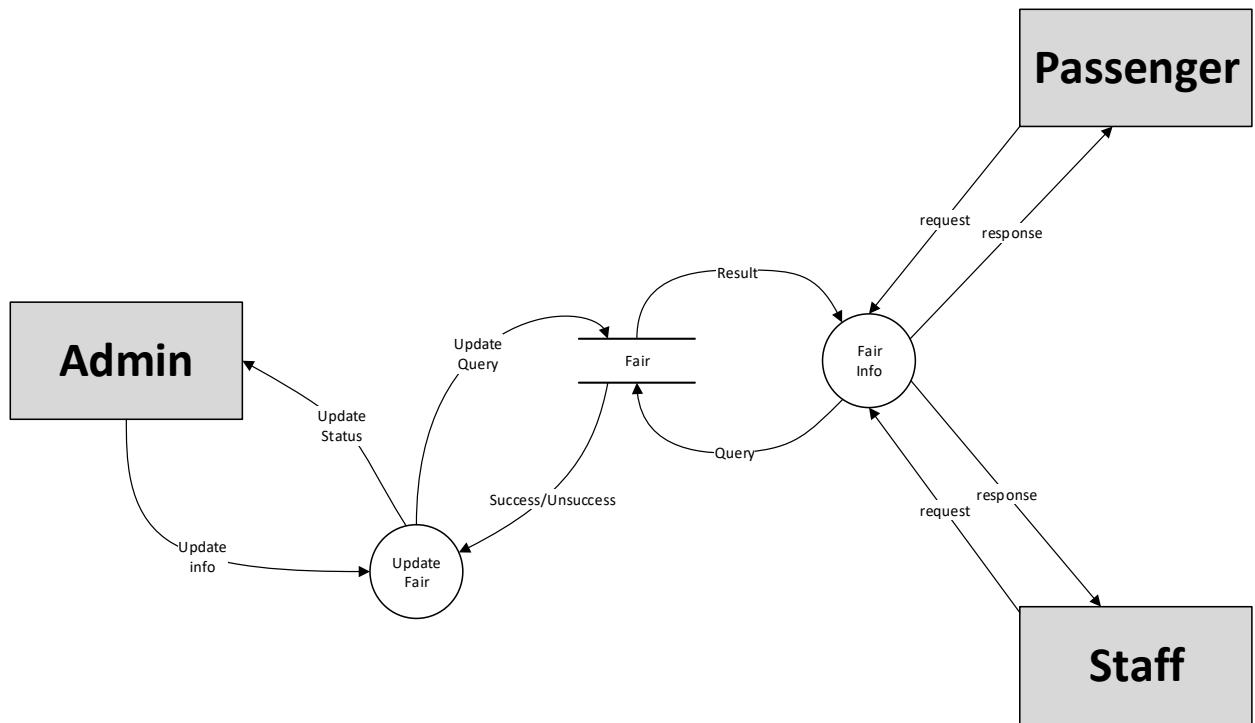


Level 2 DFD

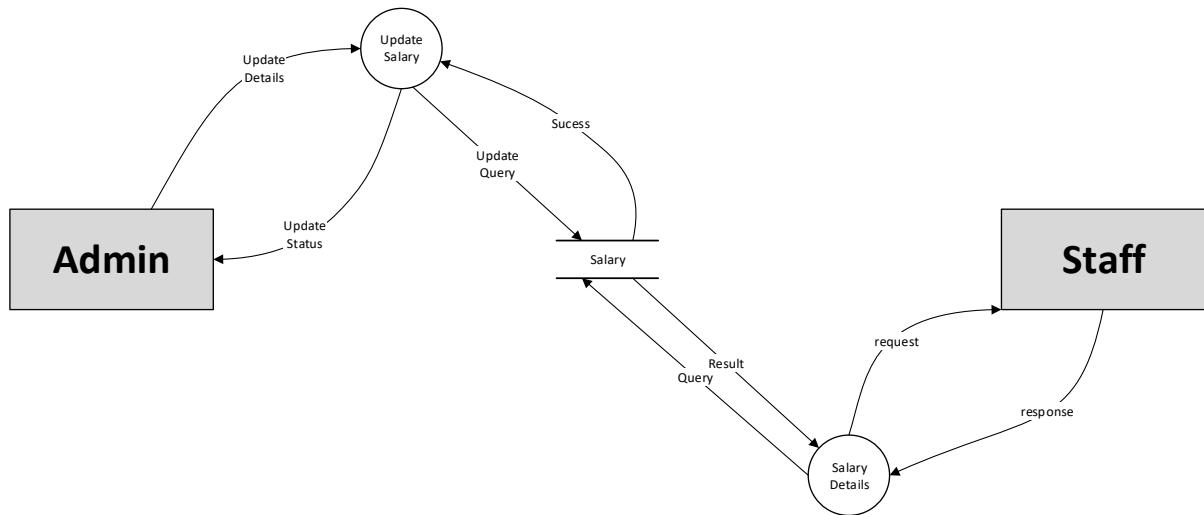
2.1 Authentication



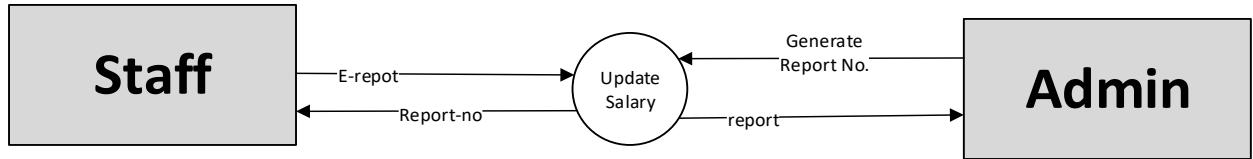
2.2 Fair



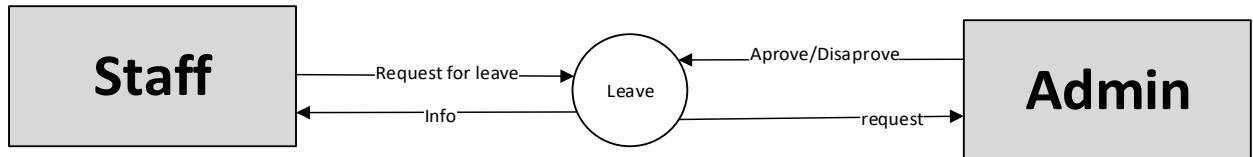
2.3 Salary



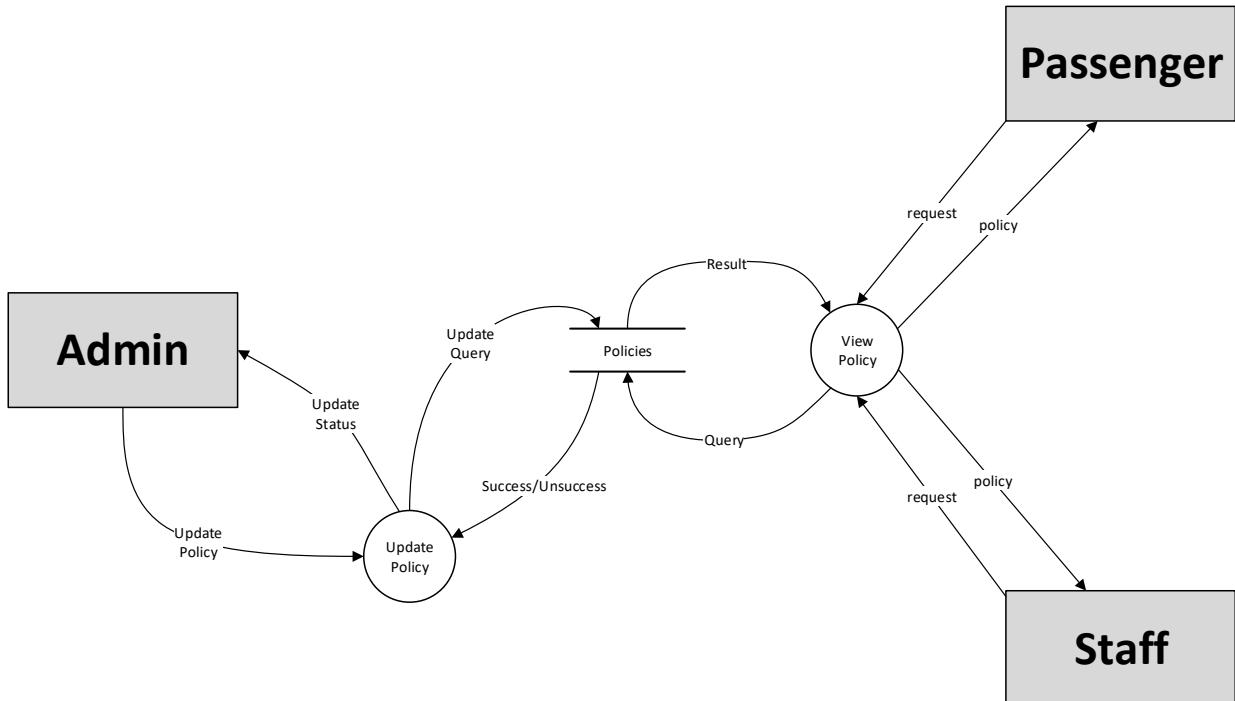
2.4 Report



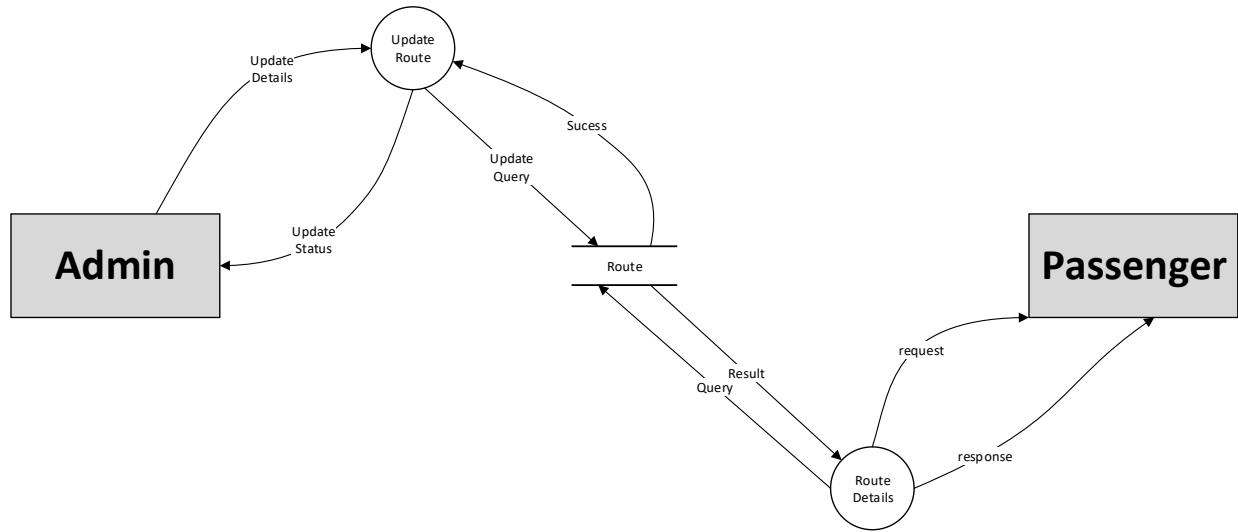
2.5 Leave



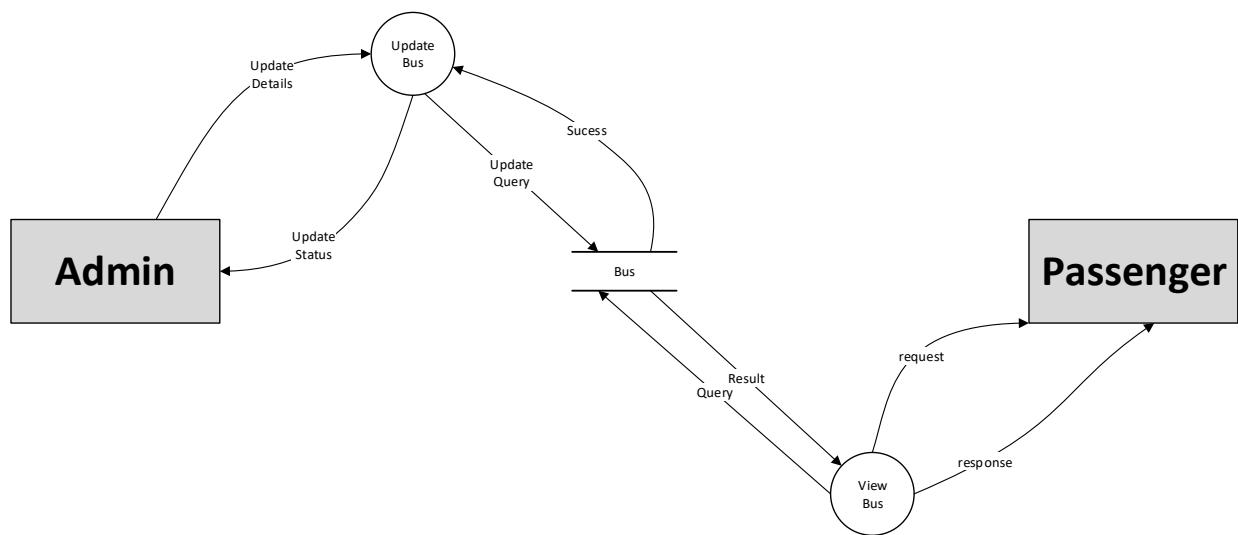
2.6 Policies



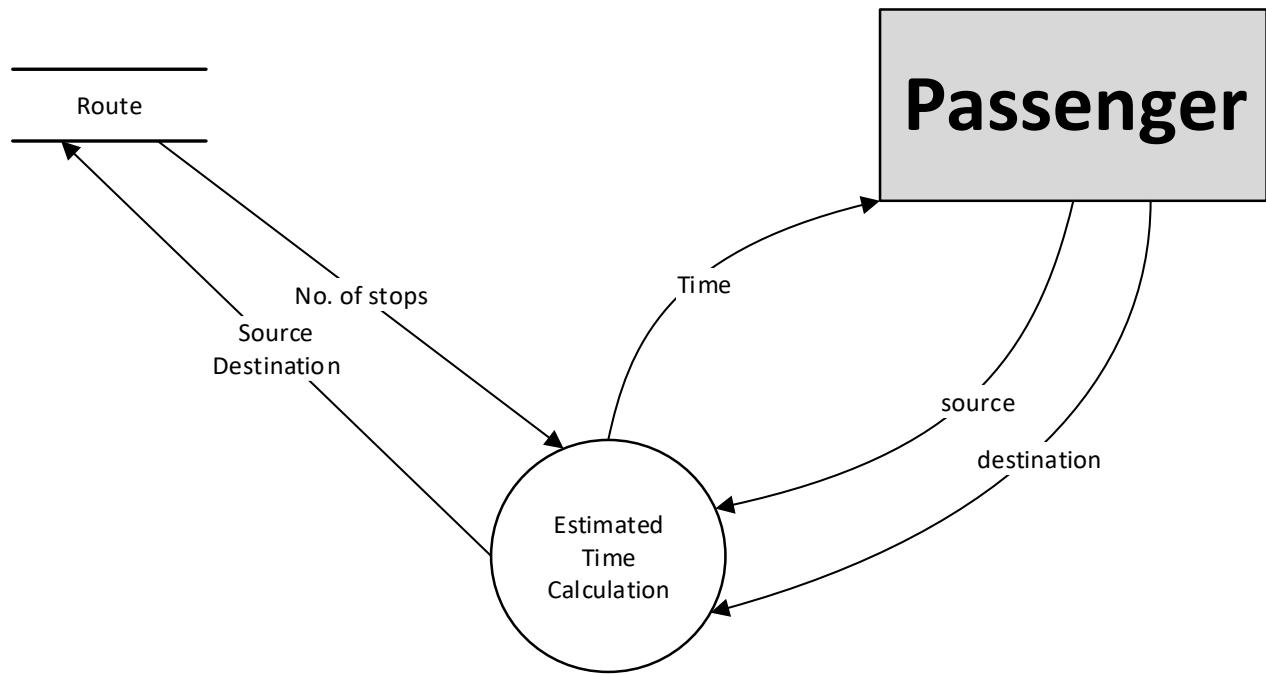
2.7 Route



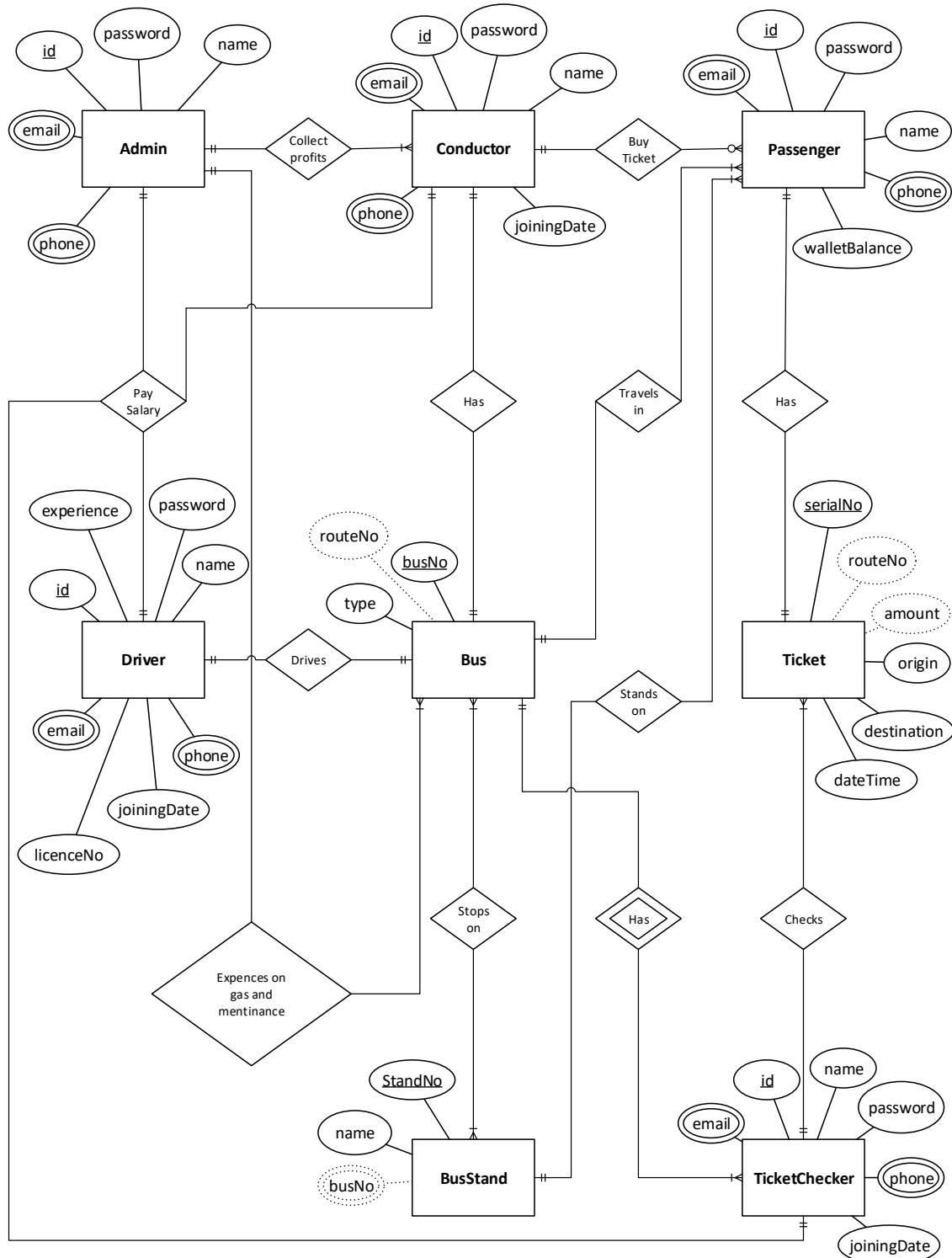
2.8 Bus Details



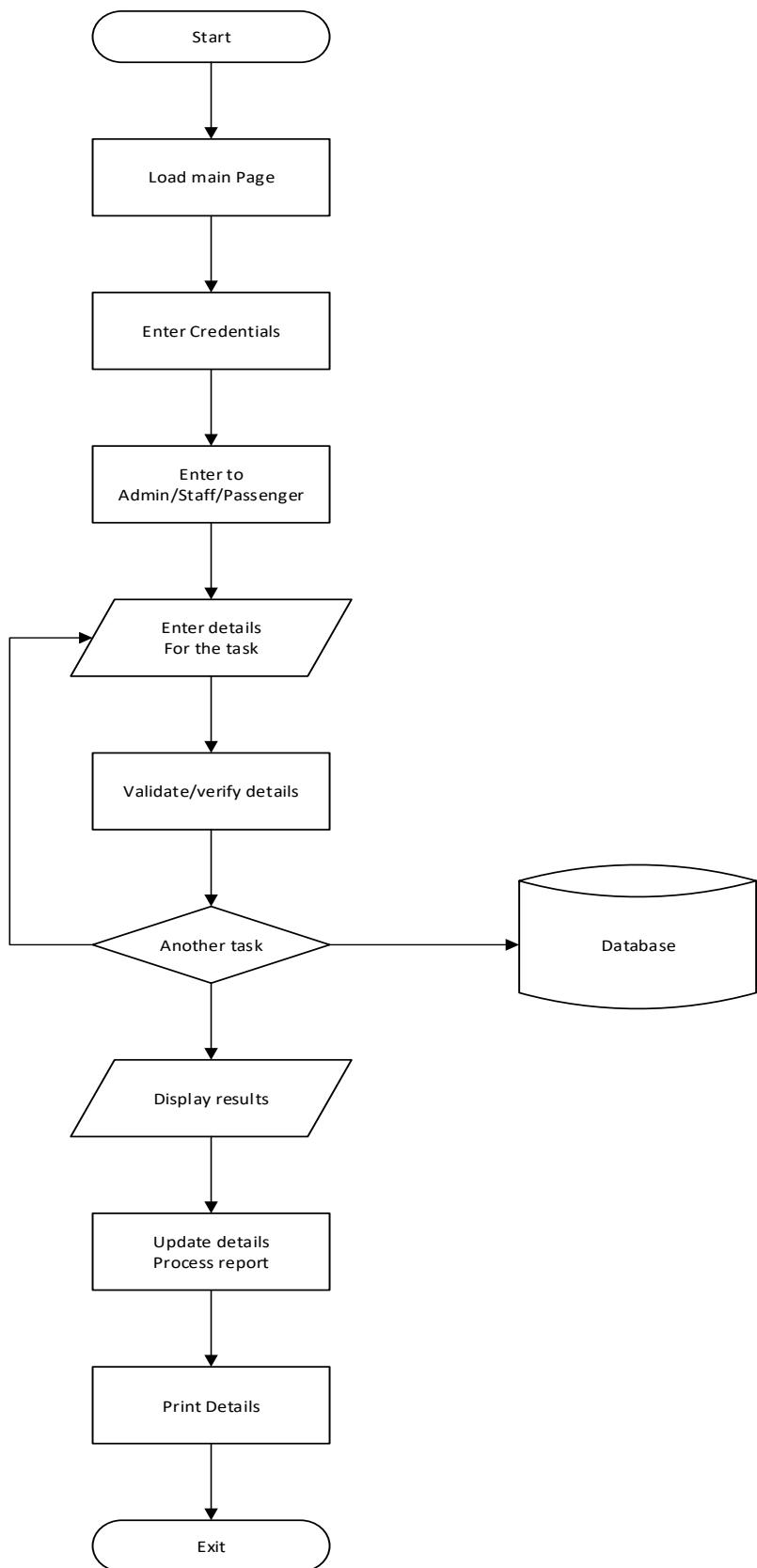
2.9 Estimated Time Calculation



Entity Relationship Diagram



Process Logic



Class Diagram

Admin	
-id:	int
-password:	String
-name:	String
-phone:	int[1..3]
-email:	String[1..3]
+setId(int):	void
+getId():	int
+setPassword(String):	void
+getPassword():	String
+setName(String):	void
+getName():	String
+addPhone(int):	void
+removePhone(int):	void
+getPhoneNumbers():	int[]
+addEmail(String):	void
+removeEmail(String):	void
+getEmails():	String[]

Ticket	
-serialNo:	int
-routeNo:	String
-amount:	int
-dateTime:	String
-origin:	String
-destination:	String
+setSerialNo(int):	void
+getSerialNo():	int
+setRouteNo(String):	void
+getRouteNo():	String
+ setDate():	void
+ getDate():	String
+ setTime():	void
+ getTime():	void
+ setOrigin(String):	void
+ getOrigin():	String
+ setDestination(String):	void
+ getDestination():	String

BusStand	
-standNo:	int
-name:	String
-busNo:	String [1..*]
+setStandNo(int):	void
+getStandNo():	int
+setName(String):	void
+getName():	String
+addBus(String):	void
+removeBus(String):	void
+getBusNumbers():	String[]

Bus	
-busNo:	String
-routeNo:	String
-type:	Boolean
+setBusNo(String):	void
+getBusNo():	String
+setRouteNo(String):	void
+getRouteNo():	String
+ setType(Boolean):	void
+ getType():	Boolean

Driver	Conductor
-id: int	-id: int
-password: String	-password: String
-name: String	-name: String
-joiningDate: String	-joiningDate: String
-experience: int	-phone: int[1..3]
-phone: int[1..3]	-email: String[1..3]
-email: String[1..3]	+setId(int): void
-licenceNo: String	+getId(): int
+setId(int): void	+setPassword(String): void
+getId(): int	+getPassword(): String
+setPassword(String): void	+setName(String): void
+getPassword(): String	+setJoiningDate(String): void
+setName(String): void	+getJoiningDate(): String
+setJoiningDate(String): void	+getName(): String
+getJoiningDate(): String	+addPhone(int): void
+setExperience(int): void	+removePhone(int): void
+getExperience(): int	+getPhoneNumbers(): int[]
+getName(): String	+addEmail(String): void
+addPhone(int): void	+removeEmail(String): void
+removePhone(int): void	+getEmails(): String[]
+getPhoneNumbers(): int[]	
+addEmail(String): void	
+removeEmail(String): void	
+getEmails(): String[]	
+setLicenceNo(String):void	
+getLicenceNo():String	

TicketChecker	Passenger
-id: int	-id: int
-password: String	-password: String
-name: String	-name: String
-joiningDate: String	-walletBalance: float
-phone: int[1..3]	-phone: int[1..3]
-email: String[1..3]	-email: String[1..3]
+setId(int): void	+setId(int): void
+getId(): int	+getId(): int
+setPassword(String): void	+setPassword(String): void
+getPassword(): String	+getPassword(): String
+setName(String): void	+setName(String): void
+getName(): String	+getName(): String
+setJoiningDate(String): void	+updateBal(float): void
+getJoiningDate(): String	+getBal(): float
+addPhone(int): void	+addPhone(int): void
+removePhone(int): void	+removePhone(int): void
+getPhoneNumbers(): int[]	+getPhoneNumbers(): int[]
+addEmail(String): void	+addEmail(String): void
+removeEmail(String): void	+removeEmail(String): void
+getEmails(): String[]	+getEmails(): String[]

Design Document

Database Model

RDBMS stands for “Relational Database Management System.” An RDBMS is a DBMS designed specifically for relational databases. Therefore, RDBMSes are subset of DBMSes.

A relational database refers to a database that stores data in a structured format, using rows and columns. This makes it easy to locate and access specific values within the database. It is “relational” because the values within each table are related to each other. Tables may also be related to other tables. The relational structure makes it possible to run queries across multiple tables at once.

While a relational database describes the type of database a RDBMS manages, the RDBMS refers to the database program itself. It is the software that executes queries on the data,

including adding, updating, and searching for values. A RDBMS may also provide a visual representation of the data. For example, it may display data in a tables like a spreadsheet, allowing you to view and even edit individual values in the table. Some RDBMS programs allow you to create forms that can streamline entering, editing and deleting data.

Most well-known DBMS applications fall into the RDBMS category. Examples include Oracle Database, MySQL, Microsoft SQL Server, and IBM DB2. Some of these programs are primarily used for relational database management.

Example of non-relational databases include Apache Hbase, IBM Domino, and Oracle NoSQL Database.

These type of database are managed by other DBMS programs that support NoSQL, which do not fall into the RDMBS category.

In our case we’re about to use MySQL for RDBMS.

Database Design

Admin

Field	Type	Null	Key	Default	Extra
id	int(4)	NO	PRI	NULL	auto_incriment
password	varchar(20)	NO		NULL	
name	varchar(20)	NO		NULL	
email	varchar(30)	NO	UNI	NULL	
phone	varchar(10)	YES		NULL	

Conductor

Field	Type	Null	Key	Default	Extra
id	int(4)	NO	PRI	NULL	auto_incriment
password	varchar(20)	NO		NULL	
name	varchar(20)	NO		NULL	
email	varchar(30)	NO	UNI	NULL	
phone	varchar(10)	YES		NULL	
joiningDate	date	NO		NULL	

Passenger

Field	Type	Null	Key	Default	Extra
id	int(4)	NO	PRI	NULL	auto_incriment
password	varchar(20)	NO		NULL	
name	varchar(20)	NO		NULL	
email	varchar(30)	NO	UNI	NULL	
phone	varchar(10)	YES		NULL	
walletBalance	float(7,2)	NO		0.00	

Driver

Field	Type	Null	Key	Default	Extra
id	int(4)	NO	PRI	NULL	auto_incriment
password	varchar(20)	NO		NULL	
name	varchar(20)	NO		NULL	
email	varchar(30)	NO	UNI	NULL	
phone	varchar(10)	YES		NULL	
joiningDate	date	NO		NULL	
experience	int(2)	YES		NULL	
licenceNo	varchar(10)	NO	UNI	NULL	

Bus

Field	Type	Null	Key	Default	Extra
busNo	varchar(6)	NO	PRI	NULL	
routeNo	int(5)	NO	MUL	NULL	
type	varchar(6)	NO		NULL	

Ticket

Field	Type	Null	Key	Default	Extra
serialNo	int(7)	NO	PRI	NULL	auto_incriment
routeNo	int(5)	NO	MUL	NULL	
amount	int(2)	NO	MUL	NULL	
dateTime	datetime	NO		CURRENT_TIMESTAMP	DEFAULT_GENERATED
destination	varchar(20)	NO		NULL	
origin	varchar(20)	NO		NULL	

BusStand

Field	Type	Null	Key	Default	Extra
standNo	int(4)	NO	PRI	NULL	auto_increment
name	varchar(20)	NO		NULL	
busNo	varchar(6)	NO		NULL	

TicketChecker

Field	Type	Null	Key	Default	Extra
id	int(4)	NO	PRI	NULL	auto_incriment
password	varchar(20)	NO		NULL	
name	varchar(20)	NO		NULL	
email	varchar(30)	NO	UNI	NULL	
phone	varchar(10)	YES		NULL	
joiningDate	date	NO		NULL	

Route

Field	Type	Null	Key	Default	Extra
routeNo	varchar(6)	NO	PRI	NULL	auto_incriment
source	int(5)	NO	MUL	NULL	
destination	int(5)	NO		NULL	

Fair

Field	Type	Null	Key	Default	Extra
amount	int(2)	NO	PRI	NULL	
distance	int(2)	NO		NULL	

Salary

Field	Type	Null	Key	Default	Extra
tranId	int(4)	NO	PRI	NULL	auto_incriment
userId	int(4)	NO	MUL	NULL	
date	date	NO		NULL	

Policy

Field	Type	Null	Key	Default	Extra
pNo	int(4)	NO	PRI	NULL	auto_incriment
type	varchar(10)	NO		NULL	
discription	varchar(999)	NO		NULL	

Modularization details

Authentication

Registration:

User information have to be compelled to be registered within the system thus on establish every of them unambiguously and do the required group acts as the real potential.

On the far side, this plenty of things require measure there wherever we will reference him. Without registration, there are few options and pages one user can see which are landing on the home page and taking the features read but he won't be allowed to use those.

For use, he will have to register. One person needs to put his all the details correctly and precisely as it will be helpful in identifying them and believing that he is the real person who has booked for the same.

It also includes driver license for them who is driving and parameter too.

Log in:

After registration one will register within the system because of the operator of the system either on behalf of the user. When this he has the different helpful interfaces accessible for any action.

Here either bride or groom both have to log in with their unique identity and passwords. After this, they will be directed to the primary user interface from where they have further options.

Forgot password:

This is quite often that people tend to forget the password they keep for login. So this could be very tedious and hectic to recover the password manually in case if one needs to log in in the emergency.

So to overcome this problem we have this module named as forgot password and using this module user can recover their password in seconds. So here we need only to put our registered email Id and hit the enter.

Then one confirmation email will go to the email where he may reset the password. In seconds one can use this module and get rid of forgetting password problem.

Fair

This module is for mange all the functions related to fair such as Update and view.

Update Fair:

As all of us knows increasing in public spending, hoarding, tax reductions, price rise in international markets are the **cause of inflation**. These factors leads to rising prices. Also, increase demands cause higher prices which leads to inflation. So may be in future we have to increase the Fairs of busses or may be reduce for implanting this functionality we have fair update module.

View Fair:

This sub-module is for showing the information related to Fairs for passengers and sometimes this is for Staff to in condition of arguing with the passengers.

Salary

A **Salary** is a form of payment from an employer to an employee, which may be specified in an employment contract. It is contracted with piece wages, where each job, hour or other unit is paid separately, rather than on a periodic basis. From the point of view of running a business, salary can also be viewed as the cost of acquiring and retaining human resources for running operations, and is then termed personnel expense or salary expense. In our module staff can see the info regarding salary and salary can be updated through Admin.

Report

A report is a document that presents information in an organized format to a specific audience and purpose. Although summaries of reports may be delivered orally, complete reports are almost always in the form of written documents.

Staff can report in case of **bus is being faulty** and can get report no. which is generated through Admin

Leave

A leave of absence in an extended period of time off from your job. Depending on the organization, you may simply be able to ask for time off from work. Or, there may be a formal process you need to follow approved for a leave of absence. In our Bus Management System Staff can request for a leave online and can get approval.

Policies

Policies are needed because they set a general plan of action used to guide desired outcomes and is a fundamental guideline to help make decisions. The purpose of healthcare procedures it to communicate to

employees the desired outcomes of the organization. We implement both sub modules for update and view policy.

Route

A route is a way for travel or movement, the path from source location to the Destination location. The route module will give all the information to the passengers and routes can be modified through admin.

Bus Details

This Module is to provide users information about bus from where this information maintained by the admin of the System

Estimated Time Calculation

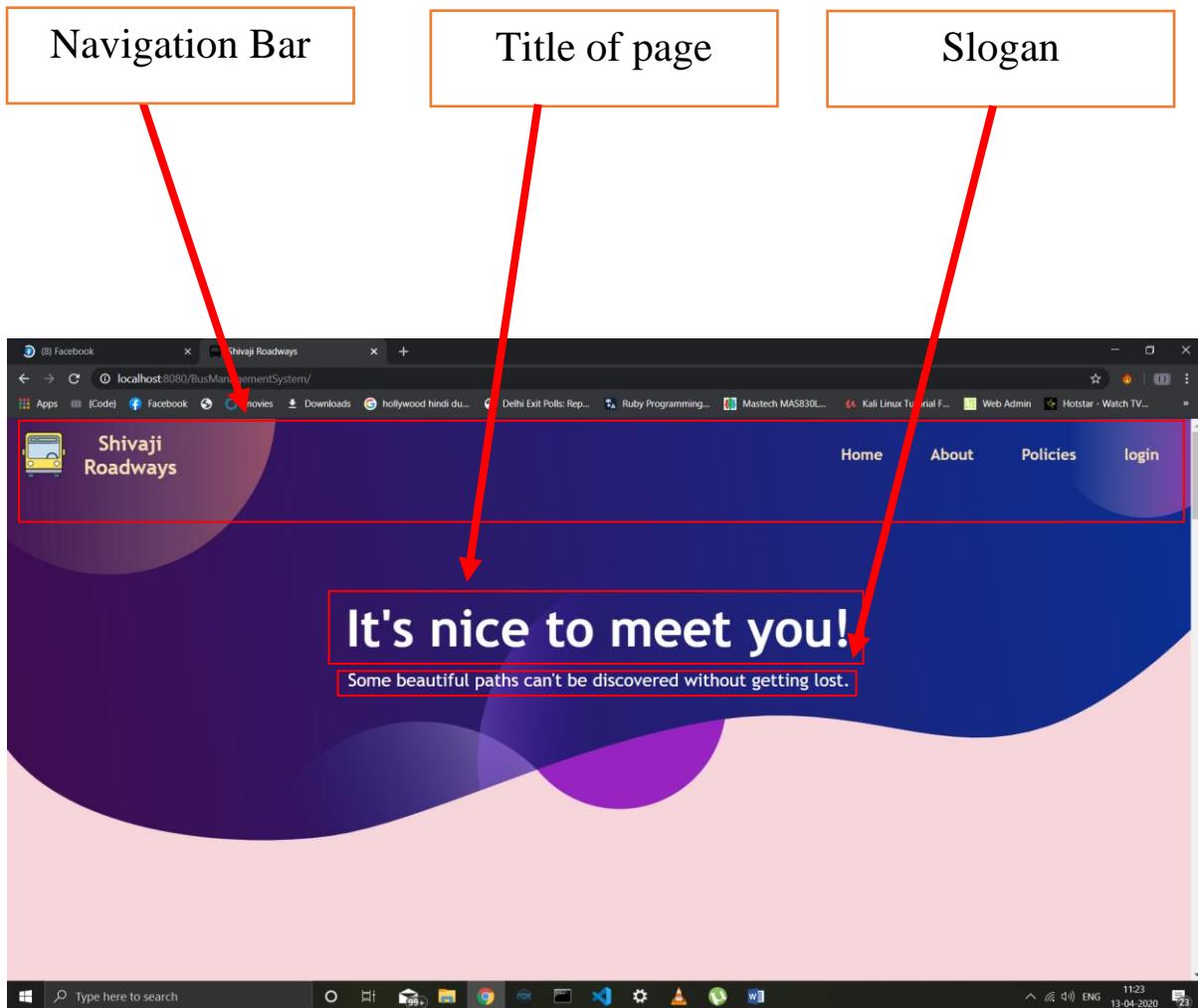
This module as per name suggests is for calculation the time for being journey complete which internally works on distance between locations and the flow of traffic

User Interface Design

User Interface (UI) design is the process of making interfaces in software or computerized devices with a focus on looks or style.

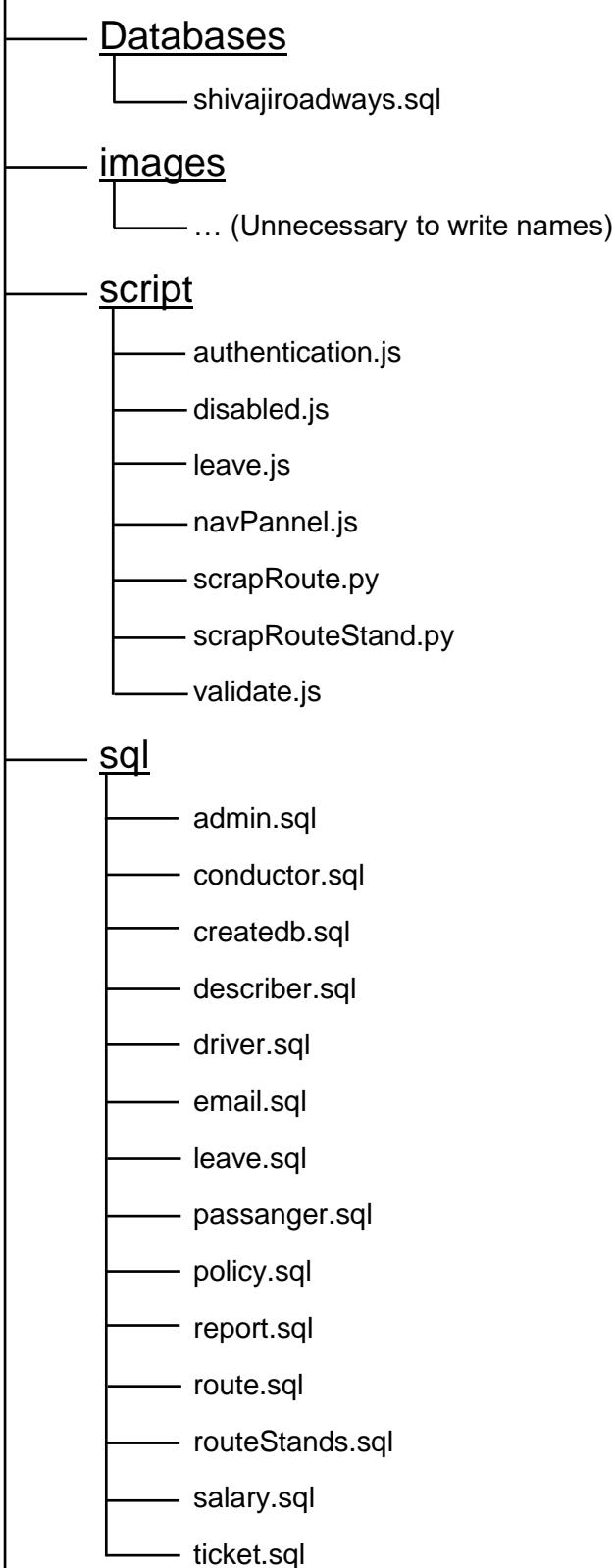
Designers aim to create designs that users will find easy to use and pleasurable. UI design typically refers to graphical user interfaces but also includes others, such as voice controlled ones.

We use a symmetric design gain user's attention on website



Directory Hierarchy

BusManagementSystem



- ticketChecker.sql
- ticketOutput.sql

style

- about.css
- authentication.css
- calFare.css
- common.css
- confirmEmail.css
- home.css
- leave.css
- Pacifico.ttf
- policies.css
- style.css
- ticket.css
- webfont.ttf

WEB-INF

- classes
 - CompareOTP.java
 - GenerateOTP.java
 - logout.java
 - SendMail.java
 - SendOTP.java
 - signIn.java
 - signUp.java
- lib
 - activation.jar
 - common-fileupload-1.4.jar
 - common-io-2.6.jar
 - mysql-connector-java-8.0.18.jar
- web.xml

about.jsp

- addFeedback.jsp
- authentication.jsp
- authenticationAJAX.jsp
- availableBuses.jsp
- availableBusesAJAX.jsp
- availableBusesAJAX.2jsp
- busesResult.jsp
- changeLeaveStatus.jsp
- checkTicket.jsp
- checkTicketAJAX.jsp
- confirmEmail.jsp
- createNewPassword.jsp
- EnterOTP.jsp
- estimatedTime.jsp
- estimatedTimeAJAX.jsp
- fare.jsp
- fareAJAX.jsp
- footer.jsp
- home.jsp
- leave.jsp
- leaveRequestAJAX.jsp
- leaveRequests.jsp
- leaveStatusAJAX.jsp
- navigationPannel.jsp
- OTPnotMatched.jsp
- output.txt
- paySalary.jsp
- paySalaryAJAX.jsp
- paySalaryAJAX2.jsp
- policies.jsp
- printTicket.jsp
- README.md

- registeredSuccessfully.jsp
- report.jsp
- reports.jsp
- route.jsp
- routeAJAX.jsp
- routeAJAX2.jsp
- salary.jsp
- sales.jsp
- settings.jsp
- signUpProcess.jsp
- submitReport.jsp
- svg.jsp
- ticket.jsp
- ticketAJAX.jsp
- updateBuses.jsp
- updatePassword.jsp
- updateRoute.jsp
- updateSalary.jsp

Timeline

- 1. 09/02/2020**
First commit
- 2. 11/02/2020**
Forget password functionality added ... change SendOTP.java configuration in order of code working put there
user="Your Google email address" and pass="Your Google password"
- 3. 12/02/2020**
Improved sent mail and some background images
- 4. 16/02/2020**
Home page, nav Panel and some login utilities added
- 5. 18/02/2020**
About and policies page added
- 6. 20/02/2020**
Added logout button and user setting button
- 7. 24/02/2020**
Leave and report page and fix some structure bugs

8. 26/02/2020

Added pages for passenger and staff and some recognized some code, separating navigationPannel.jsp is big update

9. 03/03/2020

Added ticket printing page and some structure optimization

10. 04/03/2020

Added Email verification and profile picture section

11. 05/03/2020

Created python script for extracting route data from a website and store into database local

12. 08/03/2020

Database connectivity on route module and ticket module ticket fare calculation logic also build

13. 09/03/2020

Inserting booked ticket information into database, AJAX connection to know fare live with some page

14. 10/03/2020

Preventing users to put wrong data, added estimated time functionality

15. 10/03/2020

Added search bar for check bus availability

16. 14/03/2020

Login and registration through database, busResult page added

17. 15/03/2020

Image preview while logging in and email availability while registering through AJAX

18. 16/03/2020

Added database connection for requesting staff for leave and admin to approve/decline

19. 18/03/2020

Report, Salary module implemented for both side staff and admin and ticket checking module only for TC.

20. 19/03/2020

Profile editing module and sales summary for admin

21. 21/03/2020

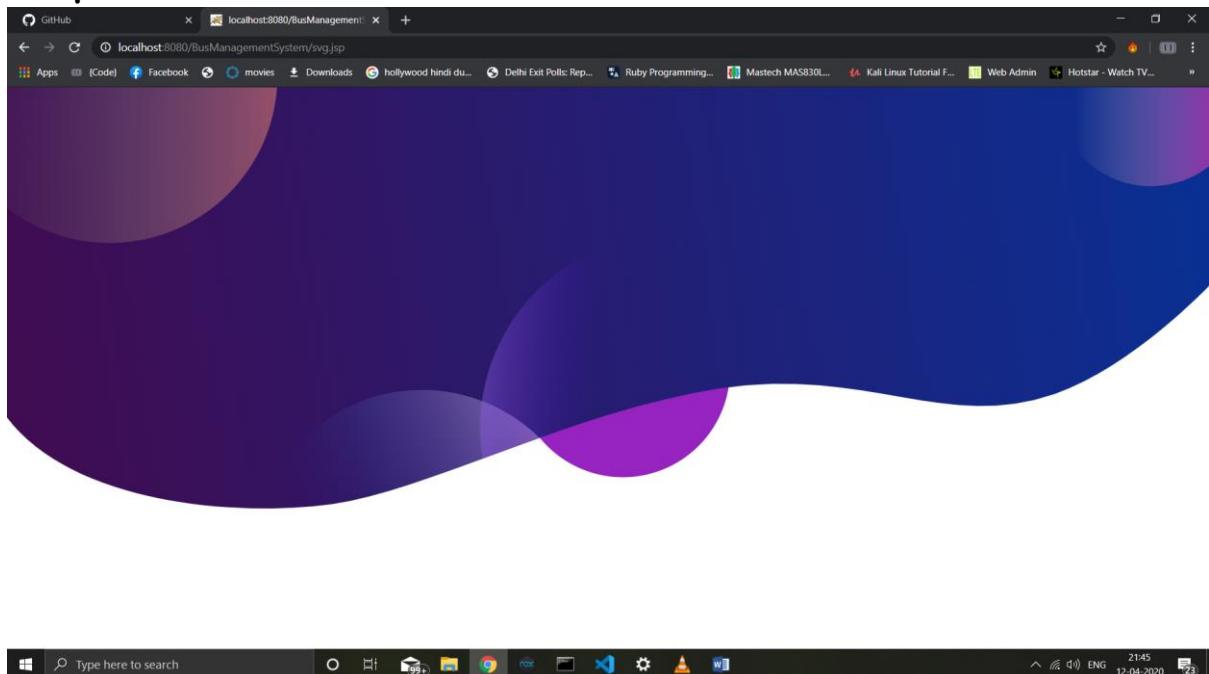
Added feedback module... The last commit project done!

Source Code and Screenshots

svg.jsp

This file I made for giving a modern look to my website I made this vector art using Figma.

Output



Source Code

```
<svg class="svgGradient" width="1536" height="541" viewBox="0 0 1536 541" fill="none" xmlns="http://www.w3.org/2000/svg">
  <ellipse cx="786.381" cy="363.536" rx="136.658" ry="137.145" fill="#9723C0"/>
  <path d="M415.124 535.125C293.029 552.177 83.6654 535.125 0 423.937V0H1536V56.2712V253.781C1536 253.781 1437.62 358.6 1337.81 393.735C1199.55 442.402 1097.2 358.212 910.651 386.631C724.106 415.049 537.22 518.074 415.124 535.125Z" fill="url(#paint0_linear)"/>
  <path fill-rule="evenodd" clip-rule="evenodd" d="M324.911 540.792C357.664 540.944 388.473 538.847 415.124 535.125C470.582 527.38 539.407 501.898 615.496 473.726C636.473 465.959 658.002 457.988 679.956 450.128C641.308 412.017 588.314 388.508 529.848 388.508C433.276 388.508 351.632 452.648 324.911 540.792Z" fill="url(#paint1_linear)"/>
  <path fill-rule="evenodd" clip-rule="evenodd" d="M344.717 0C336.972 111.633 244.276 199.781 131.064 199.781C81.6928 199.781 36.2237 183.017 0 154.853V0H344.717Z" fill="url(#paint2_linear)"/>
  <path fill-rule="evenodd" clip-rule="evenodd" d="M1102.59 391.002C1047.02 381.979 985.635 375.208 910.651 386.631C808.838 402.141 706.923 439.875 615.496 473.726C612.746 474.744 610.005 475.759 607.273 476.77C605.231 463.888 604.171 455.223Z" fill="url(#paint3_linear)"/>
</svg>
```

```

0.68 604.171 437.225C604.171 298.627 716.699 186.271 855.509 186.271C978.504 186.271 1080.86 274.484 1
102.59 391.0022" fill="#url(#paint3_linear)"/>
<path fill-rule="evenodd" clip-
rule="evenodd" d="M1337.01 0L1536 0V56.2712V100.495C1515.12 117.055 1488.92 126.91 1460.48 126.91C1392
.29 126.91 1337.01 70.2737 1337.01 0.409416C1337.01 0.272894 1337.01 0.136421 1337.01 0Z" fill="#p
aint4_linear)"/>
<defs>
<linearGradient id="paint0_linear" x1="-2.92808e-
05" y1="243.829" x2="1529.61" y2="26.2909" gradientUnits="userSpaceOnUse">
<stop stop-color="#400C52"/>
<stop offset="1" stop-color="#093094"/>
</linearGradient>
<linearGradient id="paint1_linear" x1="442.739" y1="675.898" x2="746.756" y2="532.252" gradientUni
ts="userSpaceOnUse">
<stop stop-color="#0D3D52" stop-opacity="0"/>
<stop stop-color="#192580" stop-opacity="0"/>
<stop offset="1" stop-color="#9271B5"/>
</linearGradient>
<linearGradient id="paint2_linear" x1="-83.1134" y1="-15.5567" x2="345.24" y2="-
15.5567" gradientUnits="userSpaceOnUse">
<stop stop-color="#0D3D52" stop-opacity="0"/>
<stop stop-color="#5C5C67" stop-opacity="0"/>
<stop offset="0.558916" stop-color="#906F74" stop-opacity="0.39683"/>
<stop offset="1" stop-color="#C66D60" stop-opacity="0.67"/>
</linearGradient>
<linearGradient id="paint3_linear" x1="413.322" y1="437.225" x2="745.132" y2="461.673" gradientUni
ts="userSpaceOnUse">
<stop stop-color="#E7DAFF"/>
<stop offset="1" stop-color="#4700D0" stop-opacity="0"/>
</linearGradient>
<linearGradient id="paint4_linear" x1="1337.01" y1="-34.7979" x2="1599.93" y2="-
33.5616" gradientUnits="userSpaceOnUse">
<stop offset="0.0989583" stop-color="#C4C4C4" stop-opacity="0"/>
<stop offset="1" stop-color="#BA05A8"/>
</linearGradient>
</defs>
</svg>

```

navigationPannel.jsp

Navigation panel is for navigate users to relevant pages as per their role for example if the logged in user is a ticket checker then ticket checking link will be available for that user in navigation panel.

Output



Source Code

```

<div class="navPannel">
<div class="logo">
    <div class="logoImage"></div>
    <div class="logoHeading">Shivaji Roadways</div>
</div>

<div class="navLinks">
    %
    response.setHeader("Cache-Control", "no-cache, no-store, must-revalidate");

```

```

response.setHeader("Pragma", "no-cache");
response.setHeader("Expires", "0");
if(session.getAttribute("email") == null)
{%
    <a class="link" href="authentication.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">login</a>
    <%}

    else if(session.getAttribute("role").equals("admin"))
    {%
        <div class="userProfile">
            <p class="userName"><%=session.getAttribute("name").toString().split(" ")[0]%></p>
            <div class="userImg" style="background-
image: url('images/userProfile/${profilePic}');"></div>
            <div class="iconContainer">
                <div class="setting" onclick="window.location='setting.jsp';"></div>
                <div class="logout" onclick="window.location='logout';"></div>
            </div>
        </div>
        <a class="link" href="paySalary.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Pa
y</a>
        <a class="link" href="leaveRequests.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Leave</a>
        <a class="link" href="reports.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Repo
rts</a>
        <a class="link" href="sales.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Sales<
/a>

    <%}
    else if(session.getAttribute("role").equals("driver") ||
           session.getAttribute("role").equals("conductor") ||
           session.getAttribute("role").equals("ticketchecker")
    )
    {
    %>
        <div class="userProfile">
            <p class="userName"><%=session.getAttribute("name").toString().split(" ")[0]%></p>
            <div class="userImg" style="background-
image: url('images/userProfile/${profilePic}');"></div>
            <div class="iconContainer">
                <div class="setting" onclick="window.location='setting.jsp';"></div>
                <div class="logout" onclick="window.location='logout';"></div>
            </div>
        </div>
        <a class="link" href="report.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Repor
t</a>
        <a class="link" href="leave.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Leave<
/a>
        <a class="link" href="salary.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Salar
y</a>
        <a class="link" href="fare.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Fare</a
>
    <%
    if(session.getAttribute("role").equals("ticketchecker"))
    {%
        <a class="link" href="checkTicket.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(thi
s)">Check Ticket</a>
    <%}
    %>

    <%}
    else if(session.getAttribute("role").equals("passanger"))
    {%
        <div class="userProfile">
            <p class="userName"><%=session.getAttribute("name").toString().split(" ")[0]%></p>
            <div class="userImg" style="background-
image: url('images/userProfile/${profilePic}');"></div>
            <div class="iconContainer">
                <div class="setting" onclick="window.location='setting.jsp';"></div>
                <div class="logout" onclick="window.location='logout';"></div>
            </div>
        </div>
    <%}

```

```

        <a class="link" href="route.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Route</a>
        <a class="link" href="fare.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Fare</a>
    >
        <a class="link" href="availableBuses.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Availability</a>
            <a class="link" href="estimatedTime.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Time</a>
            <a class="link" href="ticket.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Ticket</a>
        <%}%>

        <a class="link" href="policies.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Policies</a>
        <a class="link" href="about.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">About</a>
        <a class="link" href="home.jsp" onfocus="elemFocused(this)" onblur="elemBlurred(this)">Home</a>
    >
    </div>
</div>

```

footer.jsp

As usual footer in for providing company related information such as copyright, domain name or some social links like Facebook, Twitter, Instagram or GitHub profile link.

Output

@shivajiroadways.com



Source Code

```

<div class="footer">
    <h1>&copy;shivajiroadways.com</h1>
    <a href="https://twitter.com/nishant29769070" class="social" style="background-image: url('images/twitter.png');"></a>
    <a href="https://www.facebook.com/profile.php?id=100006100632588" class="social" style="background-image: url('images/facebook.png');"></a>
    <a href="https://www.instagram.com/experimentswithcode/" class="social" style="background-image: url('images/instagram.png');"></a>
</div>

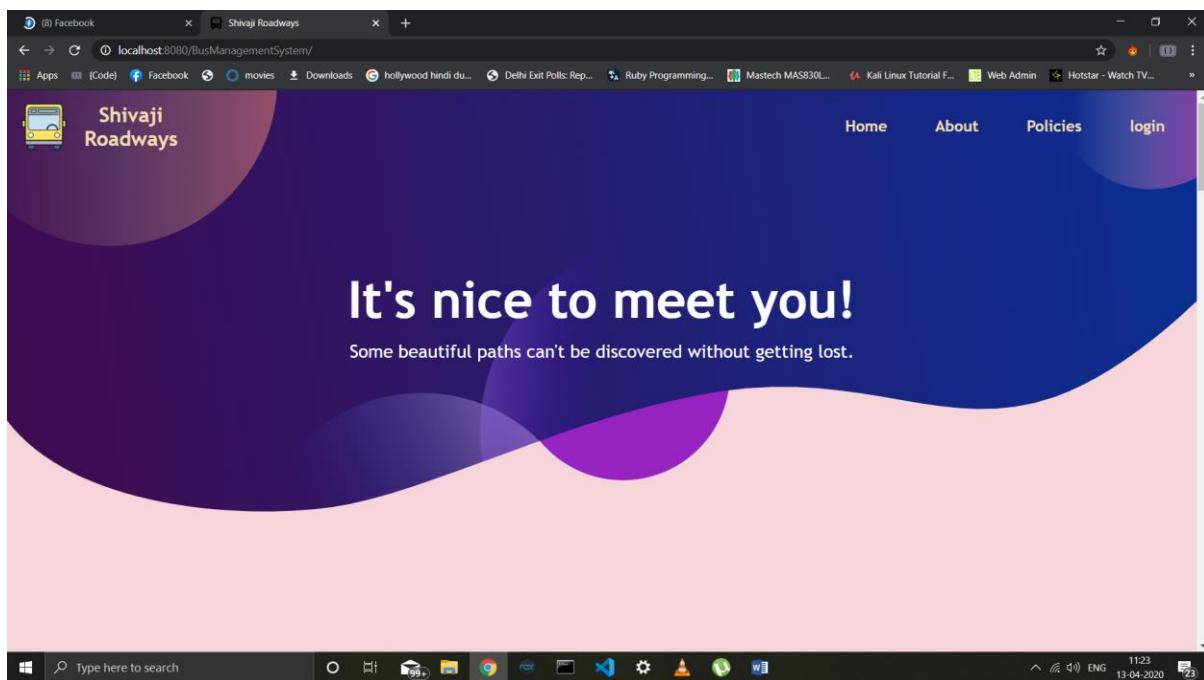
```

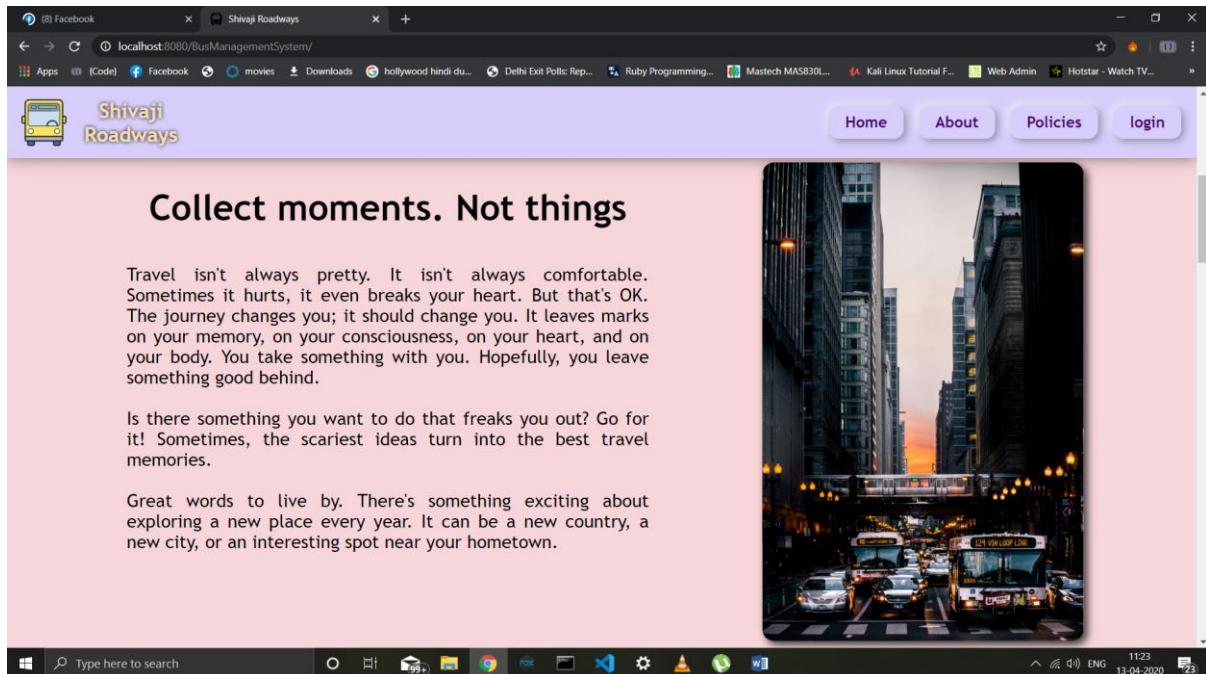
home.jsp

A home page is a webpage that serves as the starting point of website. It is the default webpage that loads when you visit a web address that only contain a domain name. For example, <https://shivajiroadways.com> will display the **Shivaji Roadways** home page.

The home page is located in the root directory of a website. Most web server allow the home page to have one of several different file names. Example include index.html, index.htm, index.php, default.html and home.jsp .The default filename of a website's home page can be customized on both Apache and IIS servers. Since the home page file is loaded automatically from the root directory, the home page URL does not need to include the filename.

Output

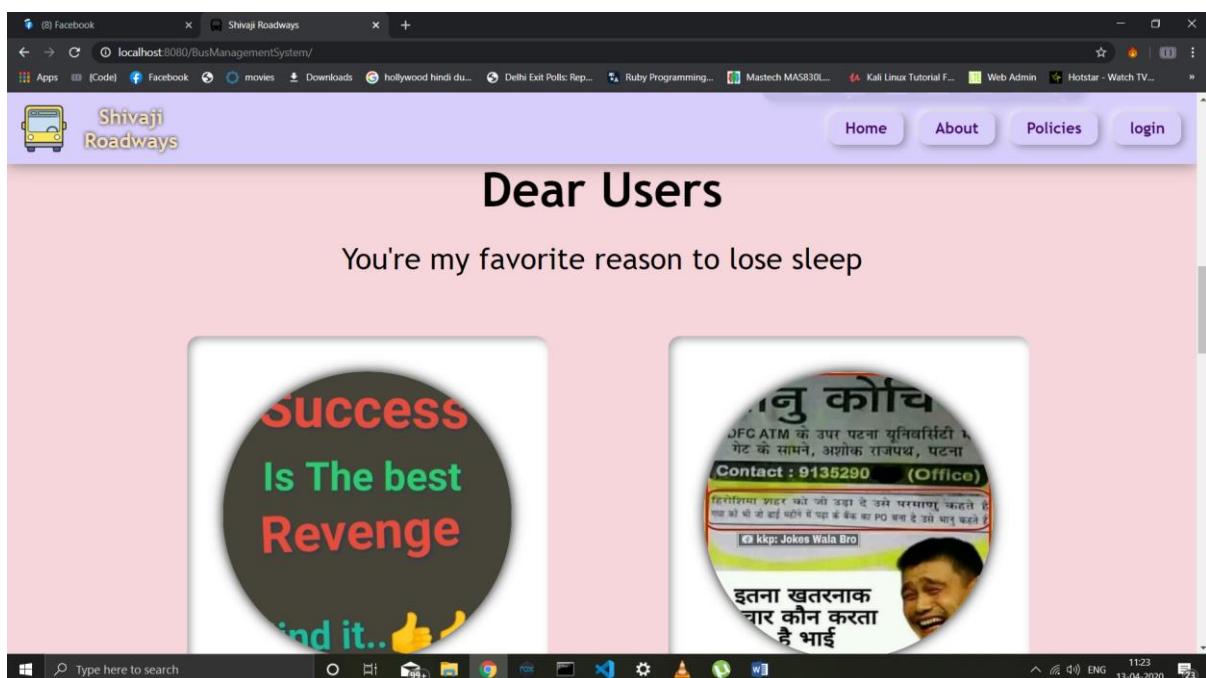


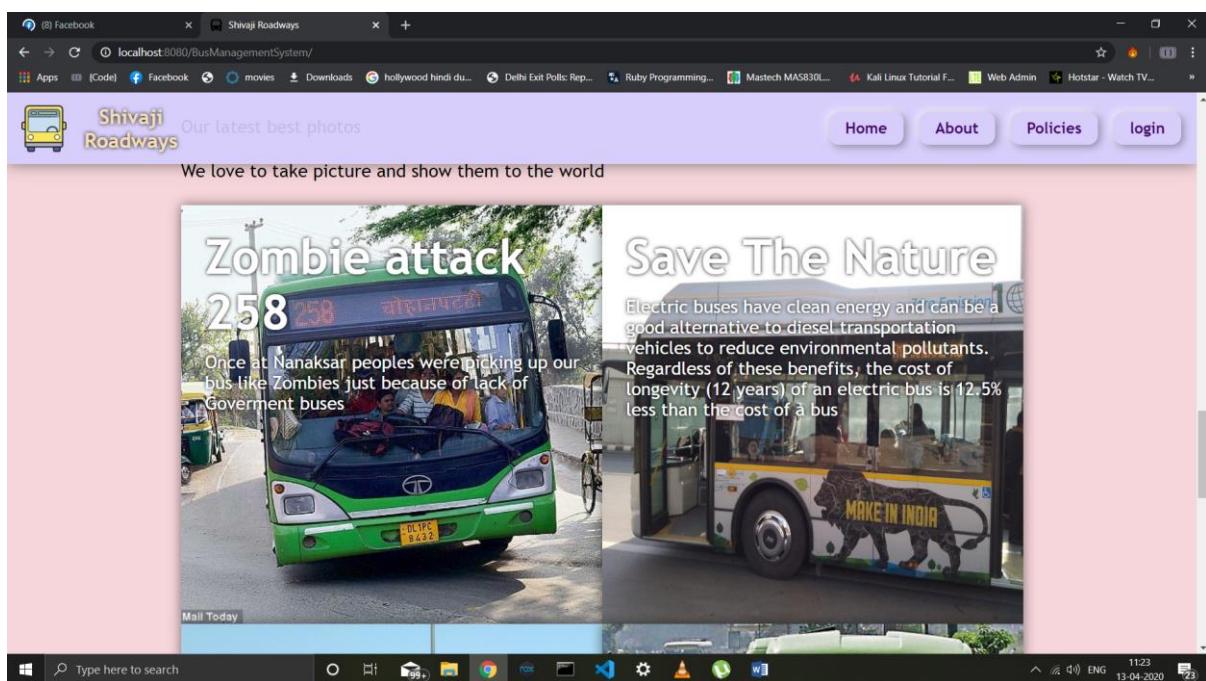
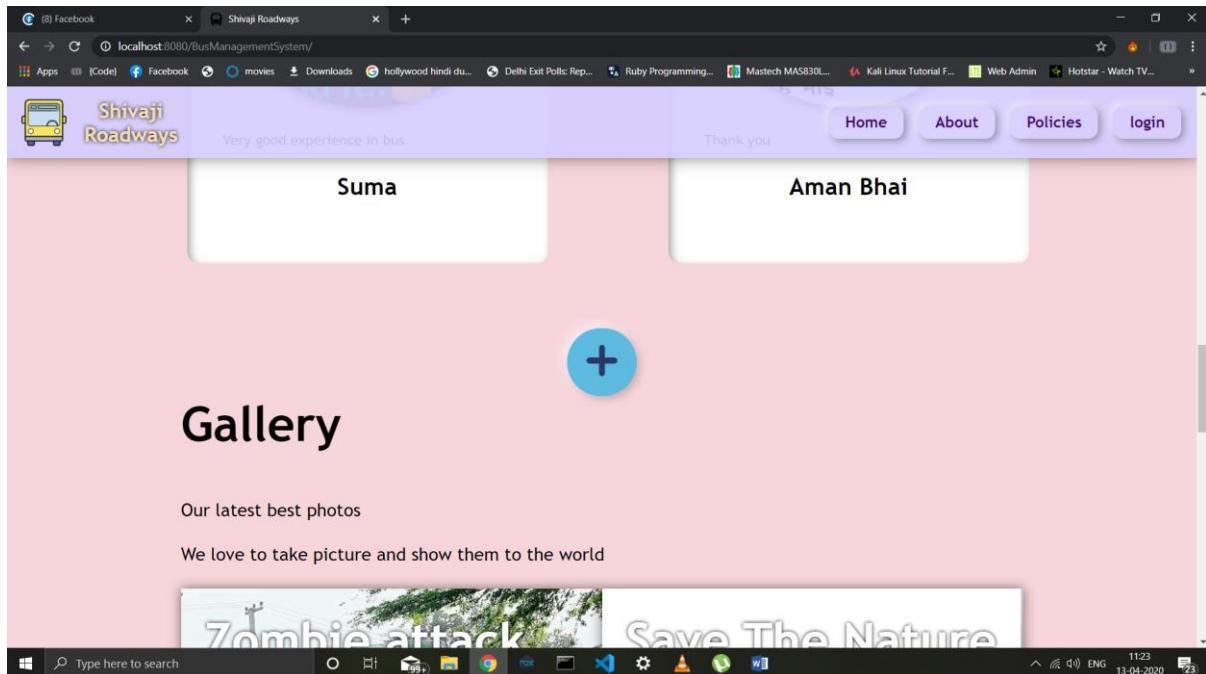


Travel isn't always pretty. It isn't always comfortable. Sometimes it hurts, it even breaks your heart. But that's OK. The journey changes you; it should change you. It leaves marks on your memory, on your consciousness, on your heart, and on your body. You take something with you. Hopefully, you leave something good behind.

Is there something you want to do that freaks you out? Go for it! Sometimes, the scariest ideas turn into the best travel memories.

Great words to live by. There's something exciting about exploring a new place every year. It can be a new country, a new city, or an interesting spot near your hometown.





localhost:8080/BusManagementSystem/

Shivaji Roadways

OMS

The Outer Mudrika Service (OMS) is the longest route operated by Delhi Transport Corporation. It covers the distant parts of Delhi.



Breakdown

Most disappointed thing while travelling in bus is Breakdown.



Anand Vihar the Old Buses



11:23 13-04-2020

localhost:8080/BusManagementSystem/

Shivaji Roadways

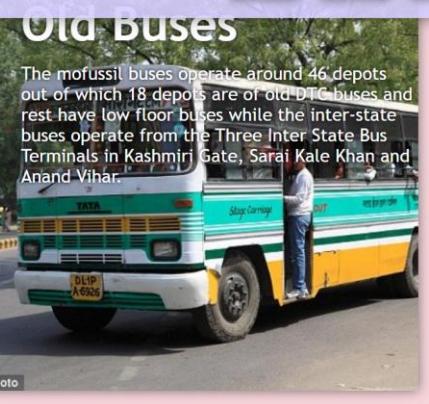
Anand Vihar the Legend

Anand Vihar ISBT is like home if I reach ISBT then I can reach anywhere with less problems.



Old Buses

The mofussil buses operate around 46 depots out of which 18 depots are of old DTC buses and rest have low floor buses while the inter-state buses operate from the Three Inter State Bus Terminals in Kashmiri Gate, Sarai Kale Khan and Anand Vihar.



©shivajiroadways.com



11:23 13-04-2020

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/home.css">
    <link rel="icon" href="images/icon.png">
    <title>Shivaji Roadways</title>

</head>
<body>
    <div class="updationWindow">
        <div id="close" onclick="closeWindow();">&#10006;</div>
        <h1 id="result"></h1>
        <form id="nameForm" onsubmit="return updateFeedback();">
            <input type="text" name="ticketNo" placeholder="Ticket No">
            <input type="text" name="feedback" placeholder="Feedback">
            <input type="submit" value="Submit Feedback">
        </form>
    </div>
    <jsp:include page="navigationPannel.jsp"></jsp:include>

    <div class="container">
        <jsp:include page="svg.jsp"></jsp:include>

        <div class="innerContainer">
            <h1 class="greeting">It's nice to meet you!</h1>
            <p class="tagline">Some beautiful paths can't be discovered without getting lost.</p>
        </div>
        <div class="imgWithArticle">
            <div class="articleDiv">
                <h1>Collect moments. Not things</h1>

                <p>Travel isn't always pretty. It isn't always comfortable. Sometimes it hurts, it even breaks your heart. But that's OK. The journey changes you; it should change you. It leaves marks on your memory, on your consciousness, on your heart, and on your body. You take something with you. Hopefully, you leave something good behind.<br><br> Is there something you want to do that freaks you out? Go for it! Sometimes, the scariest ideas turn into the best travel memories.<br><br> Great words to live by. There's something exciting about exploring a new place every year. It can be a new country, a new city, or an interesting spot near your hometown.

            </p>
        </div>
        <div class="articleImg">
        </div>
    </div>
    <div class="userFeedbacks">
        <h1>Dear Users</h1>
        <p>You're my favorite reason to lose sleep</p>
        <%@page import="java.sql.*"%>
        <%
            String ticketNo = request.getParameter("ticketNo");
            String feedback = request.getParameter("feedback");

            Connection con = null;
            Statement st = null;
            ResultSet rs = null;
            try
            {
                Class.forName("com.mysql.jdbc.Driver");
                con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234");
                st = con.createStatement();
            }
        <%>
    </div>
</body>
```

```

        String query = "select profilePic, feedback, name, bookingDate from ticketOutput
        inner join passanger on ticketOutput.email = passanger.email where feedback is not null order by bookingDate desc limit 2";
        rs = st.executeQuery(query);
        rs.next();
    }
    catch(Exception e){out.print(e.getMessage());}
%>

<div class="user">
    <div class="userImg" style="background-image: url('./images/userProfile/<%=rs.getString("profilePic")%>');"></div>
    <p><%=rs.getString("feedback")%></p>
    <h2><%=rs.getString("name")%></h2>
</div>
<%rs.next();%>
<div class="user">
    <div class="userImg" style="background-image: url('./images/userProfile/<%=rs.getString("profilePic")%>');"></div>
    <p><%=rs.getString("feedback")%></p>
    <h2><%=rs.getString("name")%></h2>
</div>
</div>
<div class="plus" title="Add your feedback" onclick="change()">>+</div>
<div class="photoGallery">
    <h1>Gallery</h1>
    <p>Our latest best photos</p>
    <p>We love to take picture and show them to the world</p>
    <div class="photoRow">
        <div class="Img" style="background-image: url('images/bus1.jpg');">
            <h1>Zombie attack 258</h1>
            <p>Once at Nanaksar peoples were picking up our bus like Zombies just because of lack of Goverment buses</p>
        </div>
    </div>
    <div class="photoRow">
        <div class="Img" style="background-image: url('images/bus2.jpg');">
            <h1>Save The Nature</h1>
            <p>Electric buses have clean energy and can be a good alternative to diesel transportation vehicles to reduce environmental pollutants. Regardless of these benefits, the cost of longevity (12 years) of an electric bus is 12.5% less than the cost of a bus</p>
        </div>
    </div>
    <div class="photoRow">
        <div class="Img" style="background-image: url('images/bus3.jpg');">
            <h1>OMS</h1>
            <p>The Outer Mudrika Service (OMS) is the longest route operated by Delhi Transport Cooperation. It covers the distant parts of Delhi</p>
        </div>
    </div>
    <div class="photoRow">
        <div class="Img" style="background-image: url('images/bus4.jpg');">
            <h1>Breakdown</h1>
            <p>Most disappointed thing while travelling in bus is Breakdown</p>
        </div>
    </div>
    <div class="photoRow">
        <div class="Img" style="background-image: url('images/bus5.jpg');">
            <h1>Anand Vihar the Legend</h1>
            <p>Anand Vihar ISBT is like home if I reach ISBT then I can reach anywhere without less problems</p>
        </div>
    </div>
    <div class="photoRow">
        <div class="Img" style="background-image: url('images/bus6.jpg');">
            <h1>Old Buses</h1>
            <p>The mofussil buses operate around 46 depots out of which 18 depots are of old DTC buses and rest have low floor buses while the inter-state buses operate from the Three Inter State Bus Terminals in Kashmiri Gate, Sarai Kale Khan and Anand Vihar.</p>
        </div>
    </div>

```

```

        </div>
    </div>
</div>
<jsp:include page="footer.jsp"></jsp:include>
</div>

</body>
<script src="scripts/navPannel.js">

</script>
<script>
    function change()
    {
        var updatingWindow = document.getElementsByClassName("updationWindow")[0];
        updatingWindow.style.height = "20vw";
        updatingWindow.style.width = "40vw";
        updatingWindow.style.opacity = "1";
    }
    function closeWindow()
    {
        var updatingWindow = document.getElementsByClassName("updationWindow")[0];
        updatingWindow.style.height = "0";
        updatingWindow.style.width = "0";
        updatingWindow.style.opacity = "0";
    }
    function updateFeedback()
    {
        var ticketNo = document.getElementsByName('ticketNo')[0].value;
        ticketNo = ticketNo.slice(7, ticketNo.length)
        var feedback = document.getElementsByName('feedback')[0].value;
        var xmlhttp = new XMLHttpRequest();
        var param = "?ticketNo=" + ticketNo + "&feedback=" + feedback;
        param = encodeURI(param);
        xmlhttp.open("POST", "addFeedback.jsp" + param, false);
        xmlhttp.onreadystatechange = function()
        {
            var result = document.getElementById("result");
            document.getElementById("nameForm").style.display = "none";

            result.style.display = "block";
            result.innerText = xmlhttp.responseText.trim();
            setInterval(function(){
                var updatingWindow = document.getElementsByClassName("updationWindow")[0];
                updatingWindow.style.height = "0";
                updatingWindow.style.width = "0";
                updatingWindow.style.opacity = "0";
            }, 1000);
            setInterval(function(){
                location.reload();
            }, 1500);
        }
        xmlhttp.send();
    }
    return false;
}
</script>
</html>

```

about.jsp

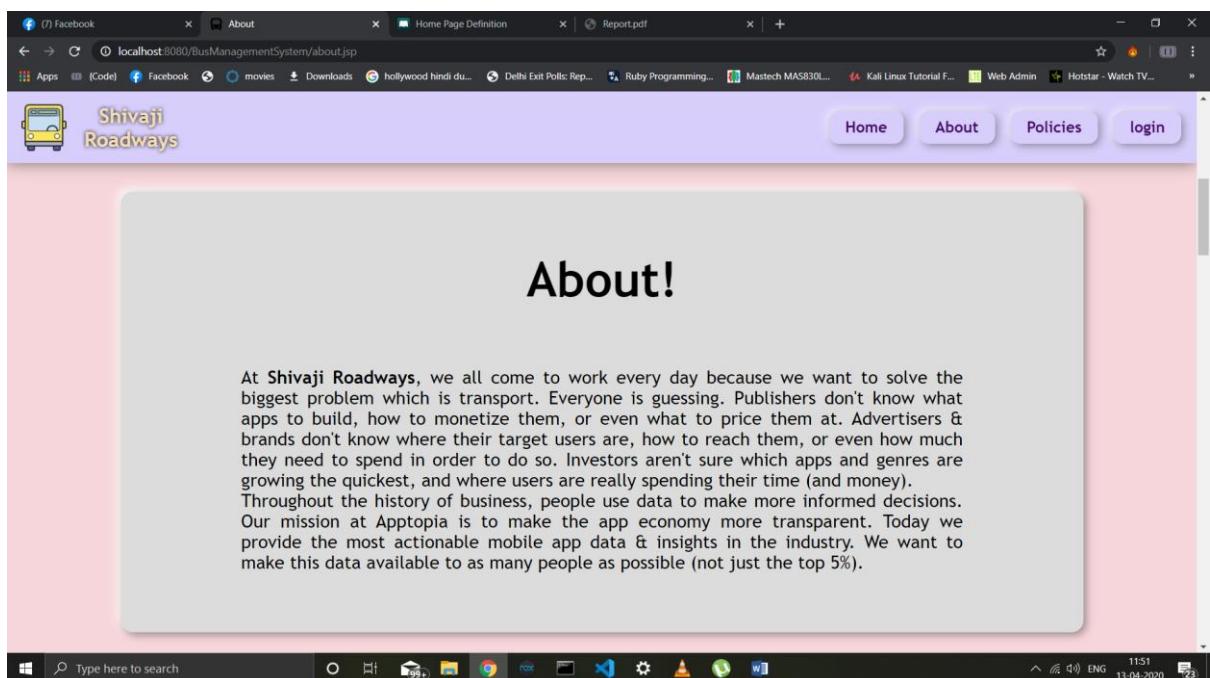
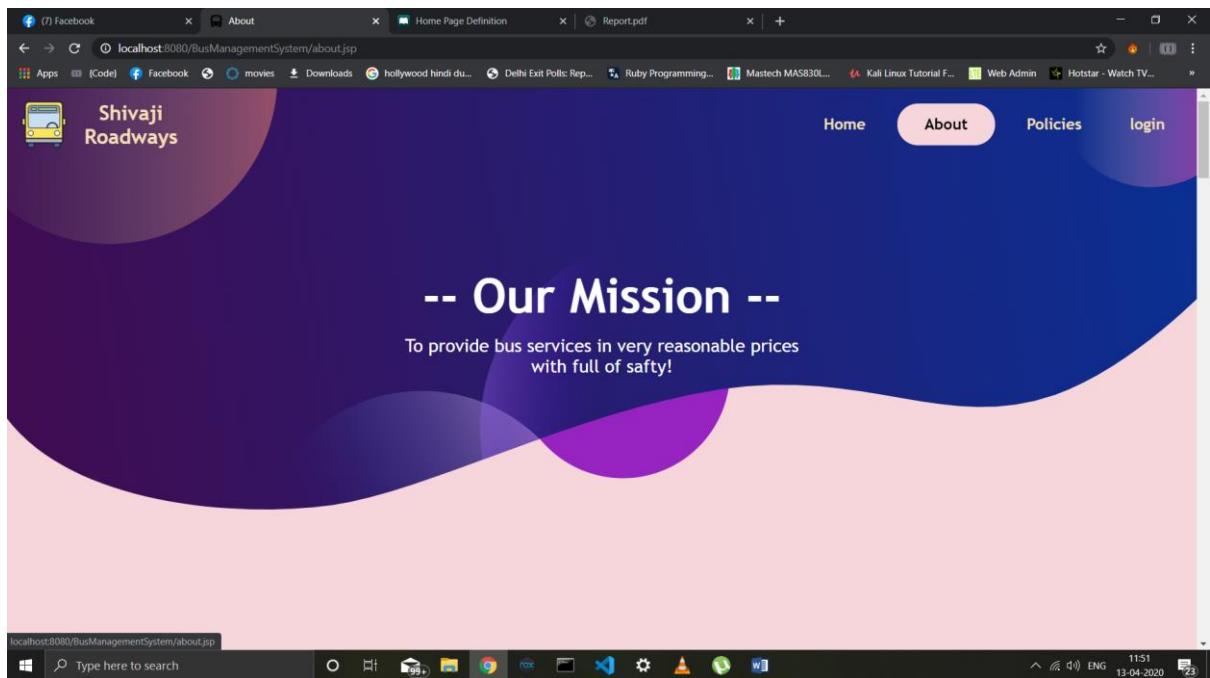
When we have a great story about how our service was built to change lives, sharing it through about section of website is a good way. The “About Us” page is a great place for it to live, too. Good stories humanize your brand, providing context and meaning for your product.

What’s more, good stories are sticky –which means peoples are more likely to connect with them and pass them on.

In our about section we provide why we are here to help peoples through our transport services, objectives of our company and some other information like **The peoples who are leading shivaji roadways** and some statistics like staff members, sold Tickets in a year and the total revenue.

At the bottom of the about page we provide some contact information like location of headquarter, Official email address, mobile no and the website

Output



The screenshot shows a web browser window with the URL localhost:8080/BusManagementSystem/about.jsp. The page title is "leadership". The header features a logo of a yellow bus and the text "Shivaji Roadways". The navigation bar includes links for Home, About, Policies, and login. Below the title, there are two cards. The first card contains a circular profile picture of a man with a beard and the text "Himanshu" and "Founder". The second card contains a circular profile picture of a man wearing sunglasses and the text "Akash Tonk" and "Investor". The status bar at the bottom shows system information like the date and time.

This screenshot shows the same web browser window as above, but the "leadership" section has been expanded into detailed profiles for each individual. The left card for "Himanshu" now includes a bio: "Himanshu Singh (born 13 October 1999), known professionally as MRTN Influencer; he is strategist in ruins of erangle who works primarily as Mathematics Teacher. He's the founder of Shivaji Roadways". The right card for "Akash Tonk" includes a bio: "Akash Tonk is one of lead investor of giant companies some of them are Netflix and Amazone Prime. The flipkart guy can recognize him just by first sight of his phone no. and he's biggest investor in Shivaji Roadways". The rest of the page structure remains the same, with the "Shivaji Roadways" logo and navigation bar at the top.

The screenshot shows a web browser window with the URL localhost:8080/BusManagementSystem/about.jsp. The page has a purple header with the logo "Shivaji Roadways". Below the header, there are two profile boxes. The first profile is for "Nishant" (Senior Programmer), who leads the engineering team and focuses on database management and backend development. The second profile is for "Sunny Prajapati" (Cyber Security Expert), who is a well-respected authority on internet security and fraud mitigation. The page also includes a navigation bar with links for Home, About, Policies, and login.

Nishant
Senior Programmer
Nishant leads our engineering team and he's responsible for [Shivaji Roadways](#) underlying technology. His focus & passion is on database management and backend as well front end

Sunny Prajapati
Cyber Security Expert
Sunny is a well-respected authority on Internet security, net crime, fraud mitigation, and technology implementation. He's securing [Shivaji Roadways](#) since 10 years

The screenshot shows a web browser window with the URL localhost:8080/BusManagementSystem/about.jsp. The page has a purple header with the logo "Shivaji Roadways". Below the header, there is a large section titled "Statistics!" containing staff and passenger counts. The staff section shows 2 Drivers, 3 Conductors, and 3 TicketCheckers. The passenger section shows 0 passengers. The page also includes a navigation bar with links for Home, About, Policies, and login.

Staff

Role	Count
Driver	2
Conductor	3
TicketChecker	3

Passangers

Role	Count
Passenger	0

The screenshot shows a web browser window with the URL localhost:8080/BusManagementSystem/about.jsp. The page title is "Passangers". The main content area displays a summary of ticket sales:

Soled Tickets		Total
AC	5	
Ordinary	22	27

Total Revenue: ₹655

The browser's address bar shows the same URL. The taskbar at the bottom includes icons for File Explorer, Google Chrome, Task View, and others. The system tray shows the date as 13-04-2020 and the time as 11:52.

The screenshot shows a web browser window with the URL localhost:8080/BusManagementSystem/about.jsp. The page title is "About". The main content area displays contact information:

Location: Ramlila Maidan
Email: knishant113@gmail.com
Mobile No.: 9999999999
Website: shivajiroadways.com

At the bottom, there is a footer with the text "@shivajiroadways.com" and social media links for Twitter, Facebook, and Instagram. The browser's address bar shows the same URL. The taskbar at the bottom includes icons for File Explorer, Google Chrome, Task View, and others. The system tray shows the date as 13-04-2020 and the time as 11:52.

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/about.css">
    <link rel="icon" href="images/icon.png">
    <title>About</title>
    <style>
        .staff
        {
            box-shadow: inset 4px 4px 10px rgba(0, 0, 0, 0.356), inset -5px -
5px 12px 0 rgb(255, 255, 255);
            border-radius: 1vw;
            width: 90%;
            padding-top: 4vw;
            padding-bottom: 4vw;
            margin: 4vw auto;
        }
        .staff h2
        {
            font-size: 2.8vw;
        }
        .about table
        {
            margin-top: 2vw;

            width: 100%;
            table-layout: fixed;
        }
        .about table tr th
        {
            font-size: 1.3vw;
        }
        .about table tr td
        {
            font-size: 2.5vw;
        }
        td img
        {
            height: 6vw;
            width: 6vw;
        }
    </style>
</head>
<body>
    <jsp:include page="navigationPannel.jsp"></jsp:include>
    <div class="container">
        <jsp:include page="svg.jsp"></jsp:include>
        <div class="innerContainer">
            <h1>-- Our Mission --</h1>
            <p>To provide bus services in very reasonable prices<br>
                with full of safty!</p>
        </div>
        <div class="about">
            <h1>About!</h1>
            <p>At <b>Shivaji Roadways</b>, we all come to work every day because we
                want to solve the biggest problem which is transport. Everyone
                is guessing. Publishers don't know what apps to build,
                how to monetize them, or even what to price them at.
                Advertisers & brands don't know where their target
                users are, how to reach them, or even how much they
                need to spend in order to do so. Investors aren't sure
                which apps and genres are growing the quickest, and where
                users are really spending their time (and money).<br>
            </p>
        </div>
    </div>
</body>
```

Throughout the history of business, people use data to make more informed decisions. Our mission at Apptopia is to make the app economy more transparent. Today we provide the most actionable mobile app data & insights in the industry. We want to make this data available to as many people as possible (not just the top 5%).</p>

```

</div>
<div class="leadership">
    <h1>leadership</h1>
    <div class="leaderRow">
        <div class="leader">
            <div class="leaderImg" style="background-
image: url('images/himanshu.jpg');"></div>
            <h1>Himanshu</h1>
            <p>Founder</p>
            <div class="aboutLeader">Himanshu Singh (born 13 October 1999), known professional
ly
as MRTN Influencer, he is strategist in ruins of erangle who works primarily a
s Mathematics Teacher.
            He's the founder of <span style="color:brown;">Shivaji Roadways</span>
        </div>
        <div class="leader">
            <div class="leaderImg" style="background-
image: url('images/akashtonk.jpg');"></div>
            <h1>Akash Tonk</h1>
            <p>Investor</p>
            <div class="aboutLeader">Akash Tonk is one of lead investor of giant compenies som
e of them are Netflix
and Amazon Prime.
            The flipkart guy can recorganize him just by first sight of his phone no. and
he's biggest investor in
            <span style="color:brown;">Shivaji Roadways</span>
        </div>
        </div>
    </div>
    <div class="leaderRow">
        <div class="leader">
            <div class="leaderImg" style="background-image: url('images/nishant.jpg');"></div>
            <h1>Nishant</h1>
            <p>Senior Programmer</p>
            <div class="aboutLeader">Nishant leads our engineering team and he's responsible f
or
            <span style="color:brown;">Shivaji Roadways</span> underlying technology. His
focus & passion is on database management and backend as well front end</div>
        </div>
        <div class="leader">
            <div class="leaderImg" style="background-image: url('images/sunny.jpeg');"></div>
            <h1>Sunny Prajapati</h1>
            <p>Cyber Security Expert</p>
            <div class="aboutLeader">Sunny is a well-respected authority on Internet security,
net crime, fraud mitigation, and technology implementation. He's securing
            <span style="color:brown;">Shivaji Roadways</span> since 10 years
        </div>
        </div>
    </div>
</div>

<div class="about" style="margin-top: 5vw; padding-bottom: 0.1vw;">
    <h1>Statistics!</h1>
    <div class="staff">
        <h2>Staff</h2>
        <table>
            <tr>
                <th>Driver</th>
                <th>Conductor</th>
                <th>TicketChecker</th>
            </tr>
            <tr>
                <%@page import="java.sql.*"%>
                <%
                    String applicationNo = request.getParameter("applicationNO");
                    String email = (String)session.getAttribute("email");
                </%
            </tr>
        </table>
    </div>
</div>

```

```

        Connection con = null;
        Statement st = null;
        ResultSet rs = null;
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivaji
roadways", "root", "1234");
            st = con.createStatement();
            rs = st.executeQuery("select count(*) as count from Driver");
            if(rs.next())
            {
                <td><%=rs.getString("count")%></td>
            }
            rs = st.executeQuery("select count(*) as count from Conductor");
            if(rs.next())
            {
                <td><%=rs.getString("count")%></td>
            }
            rs = st.executeQuery("select count(*) as count from TicketChecker");
            if(rs.next())
            {
                <td><%=rs.getString("count")%></td>
            }
        }
        catch(Exception e){out.print(e.getMessage());}
    %>
    </tr>
</table>
<h2 style="margin-top: 4vw;">Passangers</h2>
<%
    rs = st.executeQuery("select count(*) as count from Passanger");
    if(rs.next())
    {
        <p style="font-size: 2.8vw; padding-bottom: 0; text-
align: center;"><%=rs.getString("count")%></p>
    }
    %>

    </div>
<div class="staff">
    <h2>Soled Tickets</h2>
    <table>
        <tr>
            <td></td>
            <td rowspan="3" style="font-size: 5vw; ">+</td>
            <td></td>
            <td rowspan="3" style="font-size: 5vw; ">=</td>
            <th style="font-size: 2vw;">Total</th>
        </tr>
        <tr>
            <th>AC</th>
            <th>Ordinary</th>
            <%
                rs = st.executeQuery("select count(*) as count from ticketOutput");
                if(rs.next())
                {
                    <td><%=rs.getString("count")%></td>
                }
            %>
        </tr>
        <tr>
            <%
                rs = st.executeQuery("select count(*) as count from ticketOutput where typ
e='AC'");
                if(rs.next())
                {
                    <td><%=rs.getString("count")%></td>
                }
            %>
            rs = st.executeQuery("select count(*) as count from ticketOutput where typ
e='ORD'");
            if(rs.next())
            {

```

```

        <td><%=rs.getString("count")%></td>
    <%
    %>
</tr>
<tr style="height: 10vw;">
<%
    rs = st.executeQuery("select sum(fare) as sum from ticketOutput");
    if(rs.next())
    {
        <td colspan="5">Total Revenue: &#8377;<%=rs.getString("sum")%></td>
    }
    %
</tr>
</table>
</div>
</div>

<div class="contacts">
    <h1>Contacts</h1>
    <p>

        <table>
            <tr>
                <td><b>Location:</b></td>
                <td>Ramlila Maidan</td>
            </tr>
            <tr>
                <td><b>Email:</b></td>
                <td>knishant113@gmail.com</td>
            </tr>
            <tr>
                <td><b>Mobile No.: </b></td>
                <td>9999999999</td>
            </tr>
            <tr>
                <td><b>Website:</b></td>
                <td>shivajiroadways.com</td>
            </tr>
        </table>
    </p>
</div>
</div>

<jsp:include page="footer.jsp"></jsp:include>

</body>
<script src="scripts/navPannel.js">

</script>
</html>

```

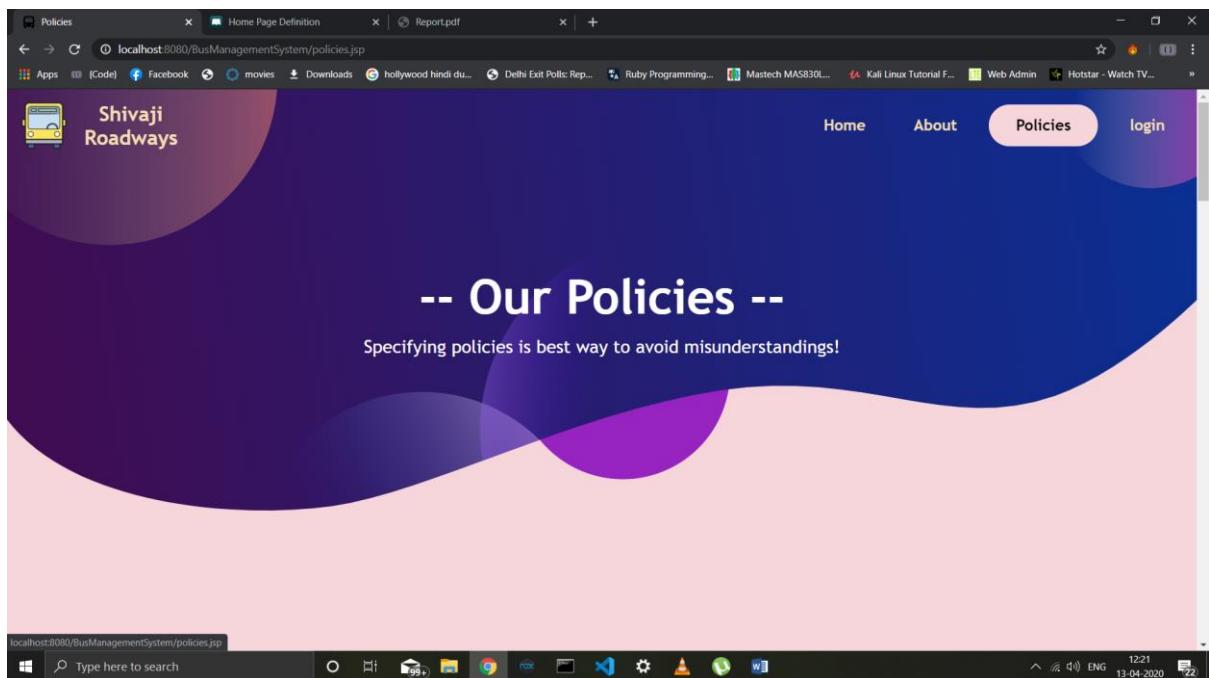
polices.jsp

Policies are general statements that guides in decision-making. A policy refers to a continuing decision which applies to repetitive situations. It is standing answer to a recurring question. Policy decisions are taken by the Chief Executive and Board. Manager should get the participation of all his subordinates in policy making.

As per our policies slogan says:

Specifying policies is best way to avoid misunderstandings!

Output



The screenshot shows a web browser window with the URL localhost:8080/BusManagementSystem/policies.jsp. The page title is "Policies". The main content area has a pink background and features a logo of a yellow bus with the text "Shivaji Roadways". Below the logo, the word "DISCLAIMER" is centered in a large, bold, black font. A detailed disclaimer text follows:

All the contents of this Site are only for general information or use. They do not constitute advice and should not be relied upon in making (or refraining from making) any decision. **Shivaji Roadways** hereby excludes any warranty, express or implied, as to the quality, accuracy, timeliness, completeness, performance, fitness for a particular purpose of the Site or any of its contents, including (but not limited) to any financial tools contained within the Site. **Shivaji Roadways** will not be liable for any damages (including, without limitation, damages for loss of business projects, or loss of profits) arising in contract, tort or otherwise from the use of or inability to use the Site, or any of its contents, or from any action taken (or refrained from being taken) as a result of using the Site or any such contents. **Shivaji Roadways**, makes no warranty that the contents of the Site are free from infection by viruses or anything else which has contaminating or destructive properties.

The screenshot shows a web browser window with the URL localhost:8080/BusManagementSystem/policies.jsp. The page title is "Policies". The main content area has a pink background and features a logo of a yellow bus with the text "Shivaji Roadways". Below the logo, the word "ACCESSIBILITY STATEMENT" is centered in a large, bold, black font. An accessibility statement follows:

The Official website of the **Shivaji Roadways** has been built with an aim to provide maximum accessibility and usability to its visitors. This website can be viewed from a variety of devices such as Desktop or Laptop computers, web-enabled mobile devices, WAP phones, PDAs, etc. However, currently Portable Document Format (PDF) files are not fully accessible. We aim to be standards compliant and follow principles of usability and universal design, which should help all visitors of this website. This website is designed to meet the Guidelines for Indian Government Websites and also adheres to level AA of the Web Content Accessibility Guidelines (W.C.A.G.) 2.0 laid down by the World Wide Web Consortium (W.W.C.). Part of the information in the website is also made available through links to external Websites. External Websites are maintained by the respective departments who are responsible for making their sites accessible. If you face any problem or have suggestions regarding the accessibility of this website, please do let us know the nature of the problem along with your contact information to get back to you at the earliest.

The screenshot shows a web browser window with the title bar "Policies" and the URL "localhost:8080/BusManagementSystem/policies.jsp". The page content is titled "Copyright Policy". It contains a text block stating: "Contents of this website may not be reproduced partially or fully, without due permission from Shivaji Roadways. If referred to as a part of another website, the source must be appropriately acknowledged. The contents of this website cannot be used in any misleading or objectionable context." Below this is a section titled "Privacy Policy" with a similar text block about personal information collection. The browser's address bar and taskbar are visible at the bottom.

Copyright Policy

Contents of this website may not be reproduced partially or fully, without due permission from **Shivaji Roadways**. If referred to as a part of another website, the source must be appropriately acknowledged. The contents of this website cannot be used in any misleading or objectionable context.

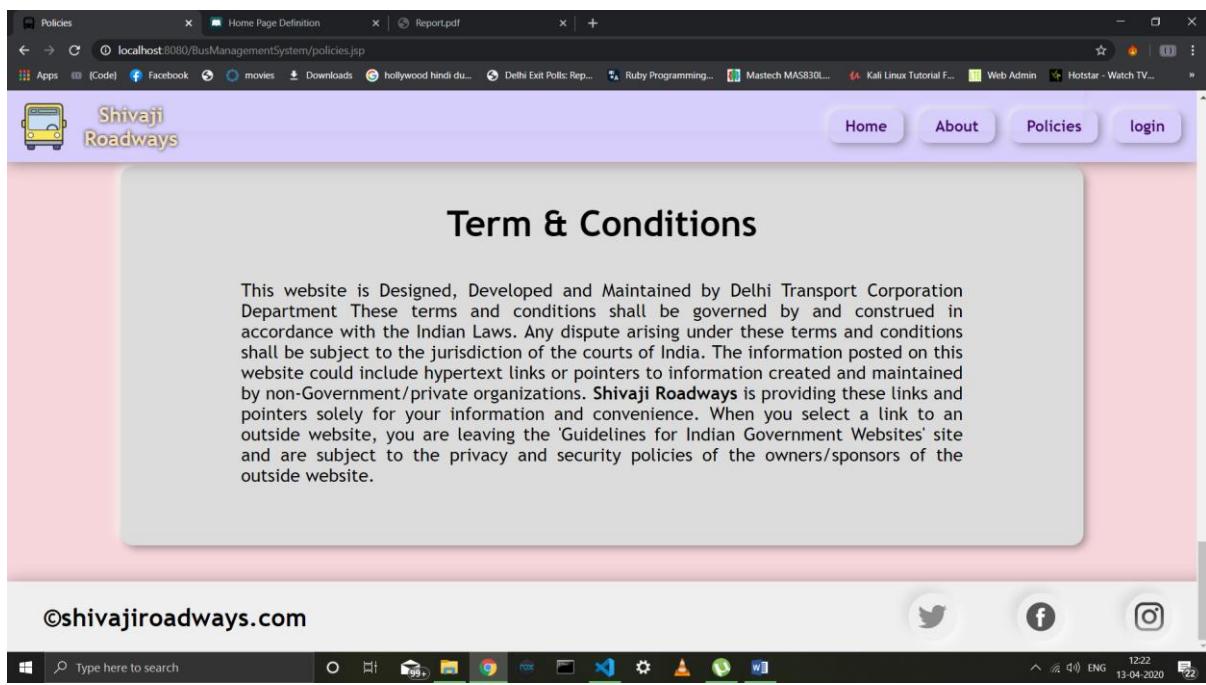
Privacy Policy

We do not collect personal information for any purpose other than to respond to you (for example, to respond to your queries). If you choose to provide us with personal information like filling out a Contact Us form with an e-mail address or postal address, and submitting it to us through the website, we use that information to respond to your

The screenshot shows a web browser window with the title bar "Policies" and the URL "localhost:8080/BusManagementSystem/policies.jsp". The page content is titled "Hyperlink Policy". It contains a text block stating: "We do not object to you linking directly to the information that is hosted on our site and no prior permission is required for the same. However, we would like you to inform us about any links provided to our site so that you can be informed of any changes or updatations therein. Also, we do not permit our pages to be loaded into frames on your site. Our website's pages must load into a newly opened browser window of the user." The browser's address bar and taskbar are visible at the bottom.

Hyperlink Policy

We do not object to you linking directly to the information that is hosted on our site and no prior permission is required for the same. However, we would like you to inform us about any links provided to our site so that you can be informed of any changes or updatations therein. Also, we do not permit our pages to be loaded into frames on your site. Our website's pages must load into a newly opened browser window of the user.



Source Code

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/policies.css">
    <link rel="icon" href="images/icon.png">
    <title>Policies</title>

</head>
<body>
<%@page import="java.sql.*"%>
<%
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234");
    }
    st = con.createStatement();
    String query = "select pName, pDescription from Policy";
    rs = st.executeQuery(query);
}
catch(Exception e)
{
    out.print(e.getMessage());
}
%>
<jsp:include page="navigationPannel.jsp"></jsp:include>

<div class="container">
    <jsp:include page="svg.jsp"></jsp:include>

```

```
<div class="innerContainer">
    <h1>-- Our Policies --</h1>
    <p>Specifying policies is best way to avoid misunderstandings!</p>
</div>
<%
    while(rs.next())
{%
    <div class="policy">
        <h1><%=rs.getString("pName")%></h1>
        <p><%=rs.getString("pDescription")%></p>
    </div>
    <%}
    %>
</div>

<jsp:include page="footer.jsp"></jsp:include>

</body>
<script src="scripts/navPannel.js">

</script>
</html>
```

authentication.jsp

Authentication is the act of providing an assertion, such as the identity of a computer system user. In contrast with Identification, the act of indicating a person or thing's identify, authentication is the process of verifying that identity. It might involve validating personal identity documents, verifying the authenticity of a website with a digital certificate, determining the age of an artefact by carbon dating, or ensuring that a product or document is not counterfeit.

We have three sub modules under this authentication module:

- **Sign In**

In computer security, Sign In is the process by which an individual gains access to a computer system by identifying and authenticating themselves. The user credentials are typically some form “Email” and a matching “password” and these credentials themselves are sometimes referred to as a login. In practice, modern secure systems often require a second factor such as email confirmation for extra security.

- **Sign Up**

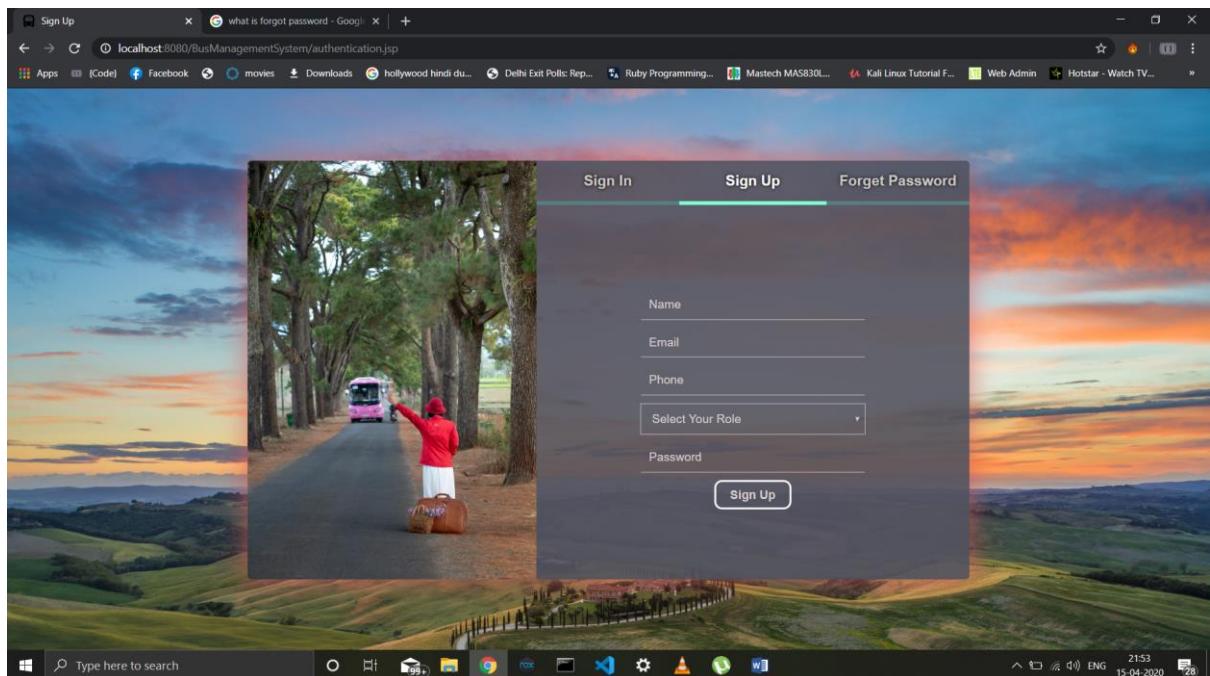
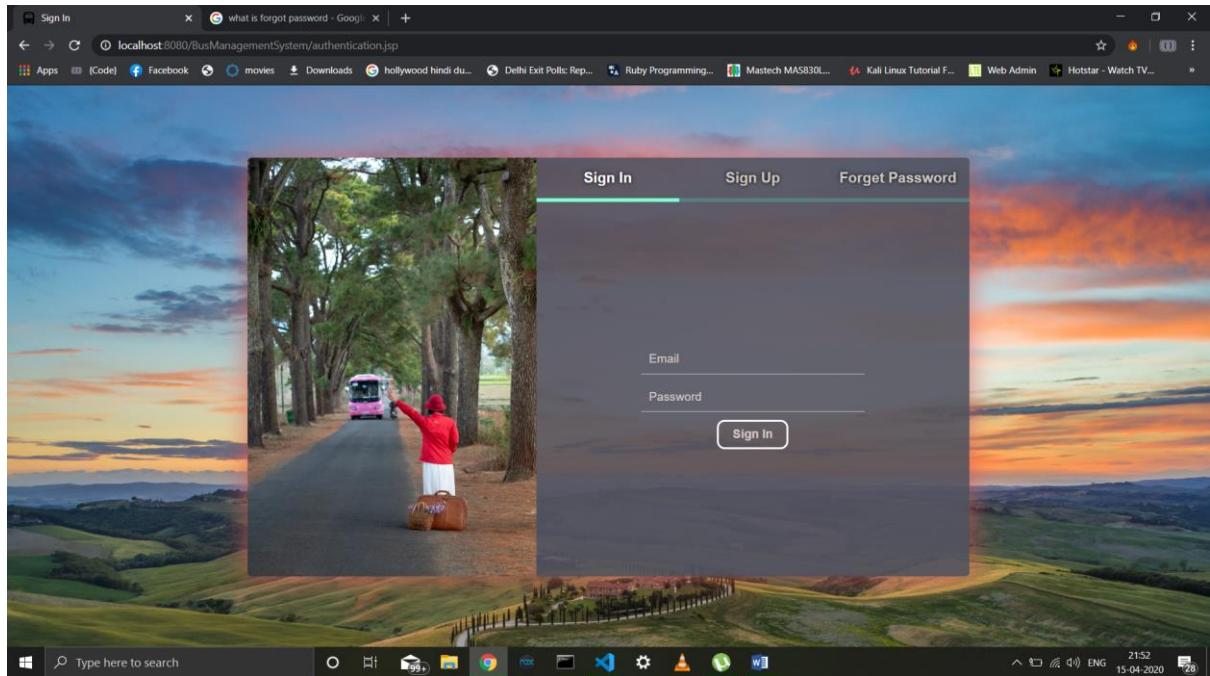
Sign up is a phrase referring to the creating of an online account using an e-mail address or username and password. The online account is usually for a website or web-based service. Once someone has signed up for a service, they can access their account by Sign In

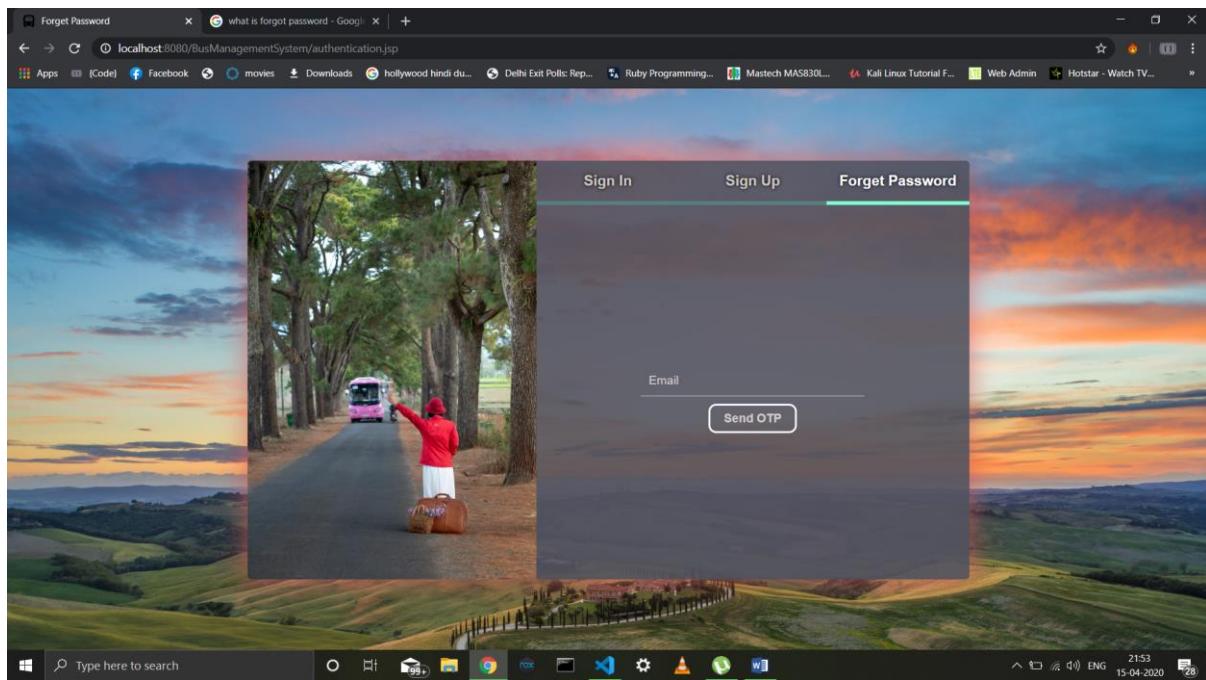
It can also be used to refer to subscribing to a free or paid service, like a video or audio streaming service.

- **Forget Password**

Forget password is the action of invalidating the current password for an account on a website, service or device, and then creating a new one.

Output





Source Code

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
    <link rel="icon" href="images/icon.png">
    <title>Authentication</title>
</head>
<body>
    <div class="container">
        <div class="imageDiv">
            </div>
        <div class="workspace">
            <div class="actionSelector">
                <div class="signInMenu" id="sin" onclick="toggleFun(this.id)">Sign In</div>
                <div class="signUpMenu" id="sup" onclick="toggleFun(this.id)">Sign Up</div>
                <div class="forgetPasswordMenu" id="fp" onclick="toggleFun(this.id)">Forget Password</div>
            </div>
            <div id="formContainer" >
                <div class="signIn" >
                    <form action="signIn" method="post" onsubmit="return validatePassword(0)">
                        <div class="ImgResult">
                            </div>
                        <input type="text" name="id" placeholder="Email" autocomplete="off" onkeyup="checkAccount(this.value);">
                        <input type="password" name="password" placeholder="Password">
                        <input type="submit" value="Sign In">
                    </form>
                </div>
                <div class="signUp" >
                    <form action="SignUp" method="POST" onsubmit="return validateForm();">
                        <!-- <form action="test.jsp" method="POST"> -->
                        <input type="text" name="name" placeholder="Name" onblur="validateName(); " autocomplete="off">
                </div>
            </div>
        </div>
    </div>

```

```

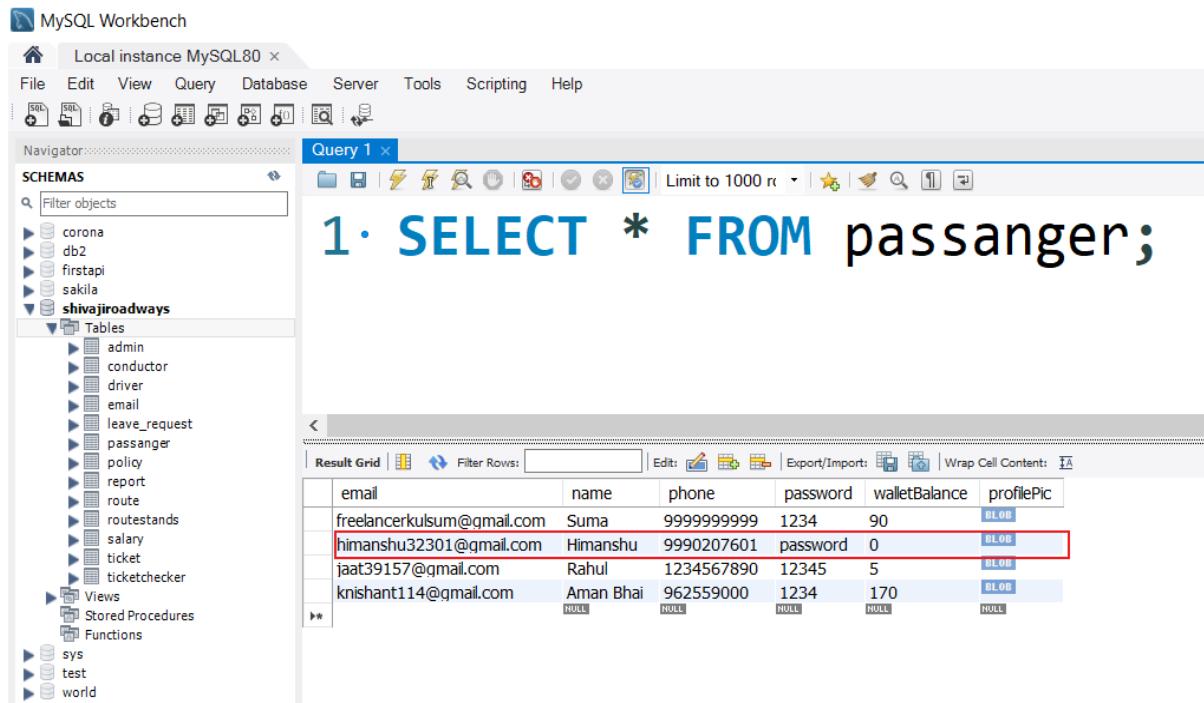
        <input type="text" name="email" placeholder="Email" onblur="validateEmail(0);"
    autocomplete="off">
    <input type="text" name="phone" placeholder="Phone" onblur="validatePhone();"
    autocomplete="off">
    <select id="role" onchange="toggleFields(this.value)" name="role" onblur="val
    idateRole();">
        <option value="" disabled selected>Select Your Role</option>
        <option>Admin</option>
        <option>Passanger</option>
        <optgroup label="Staff">
            <option>Driver</option>
            <option>Conductor</option>
            <option>Ticket Checker</option>
        </optgroup>
        <input type="text" name="walletBalance" placeholder="Wallet Balance" id="w
    alletBalance" autocomplete="off" style="display: none;" onblur="validateWalletBal();">
            <input type="text" name="licenceNo" placeholder="Licence No" id="licenc
    eNo" autocomplete="off" style="display: none;" onblur="validateLicence();">
                <input type="text" name="experience" placeholder="Experience" id="experien
    ce" autocomplete="off" style="display: none;" onblur="validateExperience();">
                    <input type="date" name="joiningDate" id="joiningDate" onblur="validateJoi
    ningDate();">
                </select>
                <input type="password" name="password" onblur="validatePassword(1);" placehol
    der="Password">
                    <input type="submit" value="Sign Up">
                </form>
            </div>
            <div class="forgetPassword">
                <form action="SendOTP" method="post" onsubmit="return validateEmail(1);">
                    <input type="text" name="email" placeholder="Email" autocomplete="off" onblur=
    "validateEmail(1);">
                        <input type="submit" value="Send OTP">
                </form>
            </div>
        </div>
    </body>
<script src="scripts/authentication.js"></script>
<script src="scripts/validate.js"></script>
<script>
    function checkAccount(email)
    {
        var param = "?email=" + email;
        param = param.replace("+", "%2b")

        var xmlhttp = new XMLHttpRequest();
        xmlhttp.open("POST", "authenticationAJAX.jsp" + param, true);

        xmlhttp.onreadystatechange = function(){
            document.getElementsByClassName("ImgResult")[0].innerHTML = xmlhttp.responseText;
        }
        xmlhttp.send();
    }
</script>
</html>

```

Signing In with Passenger's account



The screenshot shows the MySQL Workbench interface with a query results window. The query is:

```
1· SELECT * FROM passanger;
```

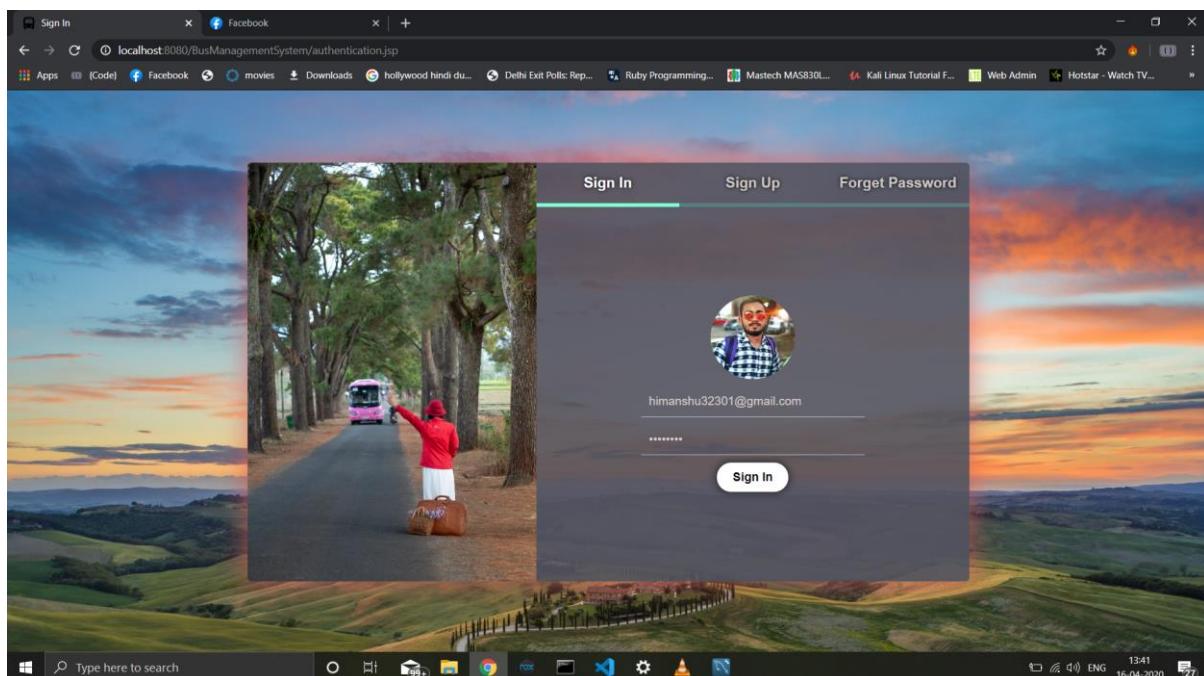
The result grid displays the following data:

email	name	phone	password	walletBalance	profilePic
freelancerkulsum@gmail.com	Suma	9999999999	1234	90	BLOB
himanshu32301@gmail.com	Himanshu	9990207601	password	0	BLOB
jaat39157@gmail.com	Rahul	1234567890	12345	5	BLOB
knishant114@gmail.com	Aman Bhai	962559000	1234	170	BLOB

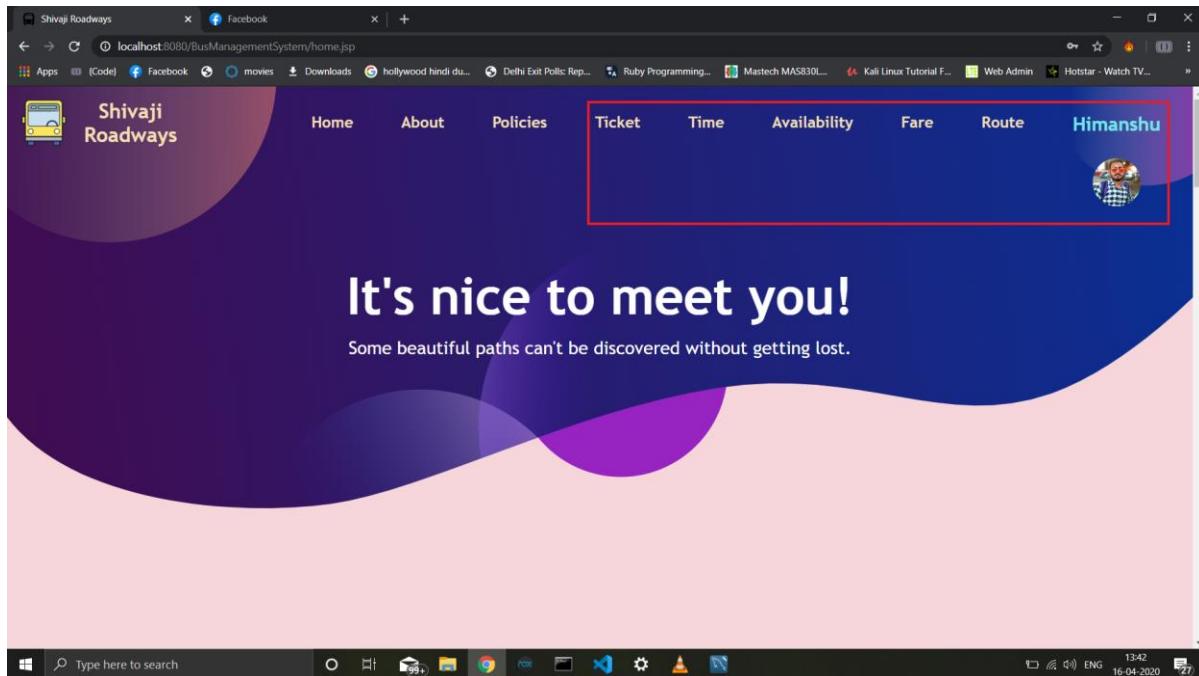
Role: Passenger

Credentials:

- Email: himanshu32301@gmail.com
- Password: password



Signed In



We have some new links in our navigation panel

- Ticket
- Time
- Availability
- Fare
- Route

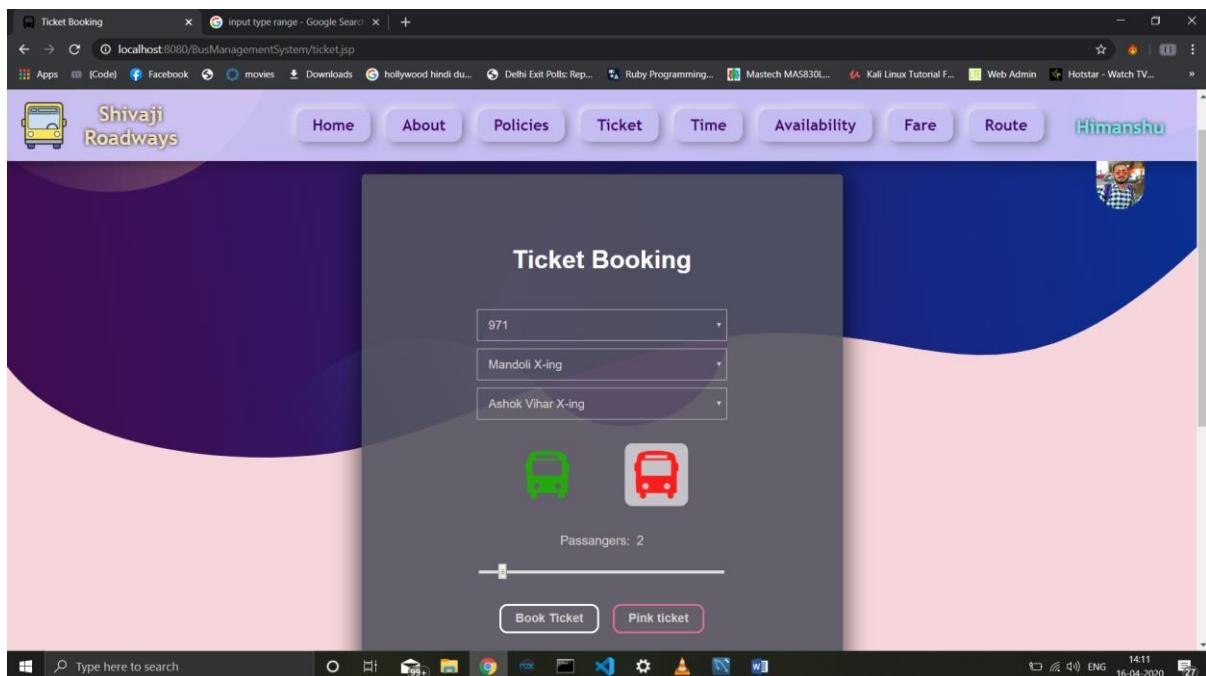
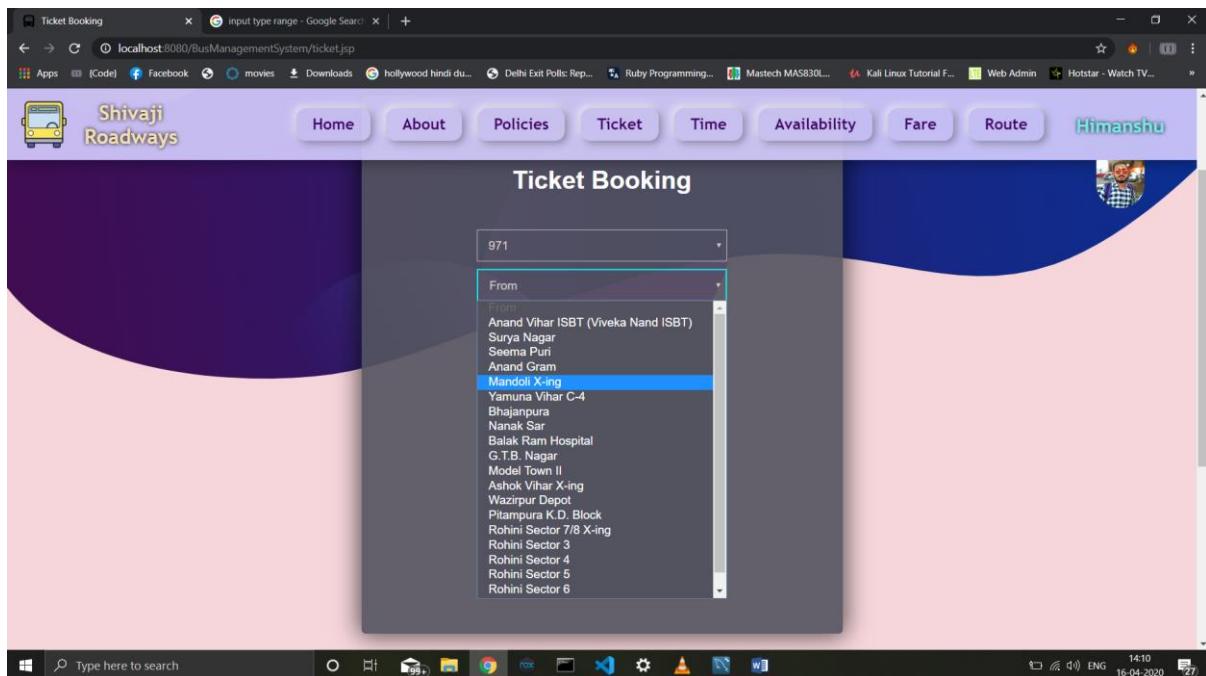
Let's explore them one by one

ticket.jsp

This module is for booking tickets in **Shivajiroadways** it takes all the routes from database and each stage in respect of selected route also we have radio buttons to select type of bus (AC or Ordinary) and a slider for selecting no of passengers in range of 1 to 20.

Output

The screenshots show the 'Ticket Booking' page of a web application. The top screenshot displays the main form with three dropdown menus: 'Bus No.', 'From', and 'To'. Below these is a slider labeled 'Passenger: 1'. The bottom screenshot shows the 'Bus No.' dropdown menu open, listing various bus identifiers such as 962STLCluster, 963, 966, 966 Extn., 968, 969, 969A, 970, 970B, 970C, 971, 971A, 972, 972Cluster, 972A, 972EXTCluster, 975, 976, 978, and 979. The item '971' is currently selected.



Selection: action → printTicket.jsp

Route	971
Source	Mandoli X-ing
Destination	Ashok Vihar X-ing
Type	AC
No of Passengers	2

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/leave.css">
    <link rel="icon" href="images/icon.png">
    <title>Ticket Booking</title>
    <style>
        .busTypeContainer
        {
            width: 220px;
            margin: 2vw auto;
        }
        .busTypeContainer label
        {
            background-size: 80% 80%;
            background-repeat: no-repeat;
            background-position: center;
            border-radius: 10px;
            transition: ease-in-out .7s;
        }

        input[type="radio"]{
            display:none;
        }
        label:last-child {
            float: right !important;
        }

        input[type="radio"] + label
        {
            border: 2px solid transparent;
            height: 5vw;
            width: 5vw;
            display:inline-block;
            padding: 0 0 0 0px;
            cursor: pointer;
        }
        input[type="radio"]:checked + label
        {
            background-color: rgba(255, 255, 255, 0.63);
            height: 5vw;
            width: 5vw;
            display:inline-block;
            padding: 0 0 0 0px;
            cursor: default;
        }

        form input[type="submit"]
        {
            display: inline;
        }
        .submitContainer
        {
            margin: 0 auto;
            width: 17vw;
        }
        .submitContainer
        {
            position: relative;
            transform: translateY("20px");
        }
        .submitContainer :first-child
        {
            float: right;
```

```

        border-color: palevioletred;
    }
    .submitContainer :first-child:hover
    {
        position: relative;
        cursor: pointer;
        animation-name: pink;
        animation-duration: 1s;
        animation-fill-mode: forwards;
    }
    @keyframes pink
    {
        100%
        {
            color: black;
            background-color: palevioletred;
            box-shadow: 0 0 10px 1px rgba(0, 0, 0, 0.63);
            border-radius: 50px;
        }
    }
    .pinkSubmit
    {
        border-color: pink;
    }

</style>
</head>
<body onload="changeRange();">
<%
if(session.getAttribute("email") == null || !session.getAttribute("role").equals("passanger"))
{
    response.sendRedirect("authentication.jsp");
}
%>

<%@page import="java.sql.*"%>
<%
Connection con = null;
Statement st = null;
ResultSet rs = null;
try
{
    Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
    st = con.createStatement();
    String query = "select routeNo from route order by serialNo";
    rs = st.executeQuery(query);
}
catch(Exception e)
{
    out.print(e.getMessage());
}
%>

<jsp:include page="navigationPannel.jsp"></jsp:include>
<jsp:include page="svg.jsp"></jsp:include>
<div class="container" style="height: 45vw; margin-top: 34vw;">
    <div class="workspace">
        <form action="printTicket.jsp">
            <h1>Ticket Booking</h1>
            <select name="routeNo" onchange="updateStands(this.value); required>
                <option value="" disabled selected >Bus No.</option>
                <%
                    while(rs.next())
                {%
                    <option><%=rs.getString("routeNo")%></option>
                %}
            </select>
            <select name="source" required onchange="disableTo(this.value, this.length)">
                <option value="" disabled selected >From</option>
            </select>
            <select name="destination" required onchange="disableFrom(this.value, this.length)">

```

```

        <option value="" disabled selected >To</option>
    </select>
    <div class="busTypeContainer">
        <input type="radio" id="ORD" value="ORD" name="type" checked>
        <label for="ORD" style="background-image: url('images/ord.png');"></label>
        <input type="radio" id="AC" value="AC" name="type">
        <label for="AC" style="background-image: url('images/ac.png');"></label>
    </div>

    <p id='rangeOutput'></p>
    <input type="range" value="1" min="1" max="20" onchange="changeRange();" class="noOfPa
ssangers" name="noOfPassangers">
    <div class="submitContainer">
        <input type="submit" value="Pink ticket">
        <input type="submit" value="Book Ticket">
    </div>
</form>
</div>
</div>

<jsp:include page="footer.jsp"></jsp:include>
</body>
<script src="scripts/navPannel.js"></script>
<script src="scripts/disable.js"></script>
<script>
    function changeRange()
    {
        var range = document.getElementsByClassName('noOfPassangers')[0].value;
        document.getElementById('rangeOutput').innerHTML = range;
    }
    function updateStands(routeNo)
    {
        var source = document.getElementsByName('source')[0];
        var destination = document.getElementsByName('destination')[0];

        var param = "?routeNo=" + routeNo;
        param = param.replace("+", "%2b");

        var xmlhttp = new XMLHttpRequest();
        xmlhttp.open("POST", "ticketAJAX.jsp" + param, false);

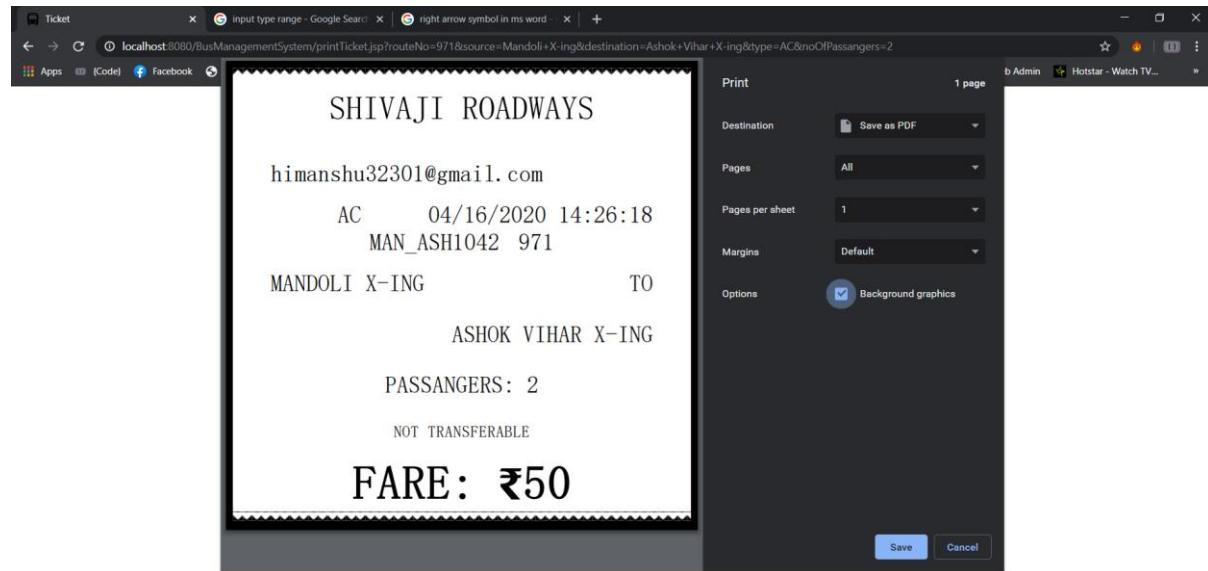
        xmlhttp.onreadystatechange = function(){
            source.innerHTML =
            destination.innerHTML = xmlhttp.responseText;
        }
        xmlhttp.send();

        var placeholder = document.getElementsByClassName('placeholder');
        placeholder[0].text = "From";
        placeholder[1].innerHTML = "To";
    }
    window.addEventListener('load', function () {
        var routeNo = document.getElementsByName('routeNo')[0].value;
        if(routeNo)
        {
            setTimeout(function(){
                updateStands(routeNo);
            }, 200);
        }
    })
</script>
</html>

```

printTicket.jsp

Output

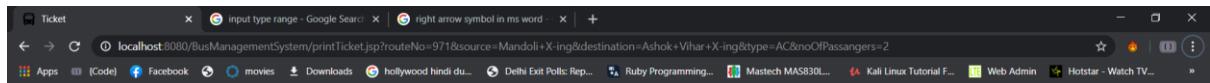


Entry into database

1· SELECT * FROM ticketOutput;

bookingDate	ticketNo	routeNo	source	destination	type	email	noOfPassangers	fare	feedback
03/14/2020 12:11:16	Ana_Jag1027	GL23	Anand Vihar ISBT (Viveka Nand ...	Jagat Puri A-Block	ORD	knishant114@gmail.com	1	5	WALA
03/14/2020 12:12:33	Neh_Mah1028	TMSLajpat...	Nehru Nagar	Maharani Bagh	ORD	knishant114@gmail.com	1	5	WALA
03/14/2020 13:11:52	Man_Ash1029	971	Mandoli X-ing	Ashok Vihar X-ing	AC	knishant114@gmail.com	1	25	WALA
03/14/2020 15:08:44	New_Ana1030	GL22	New Delhi Railway Station Gate 2	Anand Vihar ISBT (Viveka Nand ISBT)	AC	freelancerkulsum@gmail...	1	20	WALA
03/14/2020 15:09:00	New_Has1031	GL22	New Delhi Railway Station Gate 2	Hasan Pur Depot (Patparganj Depot)	ORD	freelancerkulsum@gmail...	1	10	namo
03/15/2020 11:43:58	Mod_See1032	971	Model Town II	Seema Puri	ORD	jaat39157@gmail.com	1	15	WALA
03/15/2020 11:44:23	Ana_Roh1033	971	Anand Vihar ISBT (Viveka Nand ...	Rohini Sector 6	AC	jaat39157@gmail.com	1	25	The management is quite c
03/15/2020 11:44:57	Ana_See1034	971	Anand Vihar ISBT (Viveka Nand ...	Seema Puri	ORD	jaat39157@gmail.com	1	5	WALA
03/15/2020 12:32:24	Bha_Ash1035	971	Bhajanpura	Ashok Vihar X-ing	AC	himanshu32301@gmail...	2	40	Bus timing was awesome b
03/15/2020 12:34:39	Mod_Bha1036	971	Model Town II	Bhajanpura	ORD	himanshu32301@gmail...	1	10	WALA
03/16/2020 19:07:20	Nan_Ana1037	33	Nand Nagri Terminal	Anand Vihar ISBT (Viveka Nand ISBT)	ORD	knishant114@gmail.com	1	10	WALA
03/18/2020 00:28:27	Del_Nir1038	7	Delhi Gate	Nirankari Colony	ORD	knishant114@gmail.com	1	15	WALA
03/19/2020 11:13:10	Req_Ken1039	RL79	Regal	Kendriya Terminal	ORD	knishant114@gmail.com	1	5	WALA
03/20/2020 23:54:56	Ram_Oh1040	17	Ramianpur Village	Old Delhi Railway Station	AC	knishant114@gmail.com	13	325	Thank you
03/21/2020 16:00:09	Req_Zak1041	GL90	Regal	Zakhira	ORD	freelancerkulsum@gmail...	1	10	Very good experience in bi
04/16/2020 14:26:18	Man_Ash1042	971	Mandoli X-ing	Ashok Vihar X-ing	AC	himanshu32301@gmail...	2	50	WALA

In case we have not enough balance to buy ticket



Sorry you've not sufficient balance



Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="styles/ticket.css">
    <link rel="icon" href="images/icon.png">
    <title>Ticket</title>
</head>
<body>
<%@page import="java.sql.*"%>
<%
    int fare = 0;
    String routeNo = request.getParameter("routeNo");
    String sourceName = request.getParameter("source");
    String destinationName = request.getParameter("destination");
    String busType = request.getParameter("type");
    int no = Integer.parseInt(request.getParameter("noOfPassangers"));
    Boolean isSufficientBalance = false;
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234");
        st = con.createStatement();
        String query = "select standNo from routestands where routeNo='" + routeNo + "' and standName= '" + sourceName + "' union select standNo from routestands where routeNo='" + routeNo + "' and standName=' " + destinationName + "' ;";
        rs = st.executeQuery(query);
        rs.next();
        int sourceNo = rs.getInt("standNo");
        rs.next();
    }
%>
```

```

int destinationNo = rs.getInt("standNo");
int destance = Math.abs(sourceNo - destinationNo);
if(busType.equals("ORD"))
{
    if(destance <= 2)
        fare = 5 * no;
    else if(destance <= 5)
        fare = 10 * no;
    else
        fare = 15 * no;
}
else if(busType.equals("AC"))
{
    if(destance <= 2)
        fare = 10 * no;
    else if(destance <= 4)
        fare = 15 * no;
    else if(destance <= 6)
        fare = 20 * no;
    else
        fare = 25 * no;
}
query = "select walletBalance from passanger where email = '"+session.getAttribute("email")+"'
and walletBalance >=" + fare;
rs = st.executeQuery(query);
if(rs.next())
{
    isSufficientBalance = true;
    query = "update passanger set walletBalance = walletBalance - "+fare+" where email = '"+se
ssion.getAttribute("email")+"'";
    st.executeUpdate(query);
    query = "insert into ticket(routeNo, source, destination, email, type, noOfpassangers, far
e) values('"+routeNo+"', '"+sourceName+"', '"+destinationName+"', '"+session.getAttribute("email
")+"', '"+busType+"', "+no+", "+fare+ ")";
    st.executeUpdate(query);
    rs = st.executeQuery("select * from ticketoutput where email = '"+session.getAttribute("em
ail")+"' order by bookingDate desc limit 1");
    rs.next();
}
}
catch(Exception e){out.print(e.getMessage());}
%>

<%
if(isSufficientBalance)
{%
<script>
    print();
</script>

<h1 id="msg">CTRL + P for Print Ticket (<span style="color: red">balance have already deducted</sp
an>)</h1>

<div class="container">
    <p style="font-size: 35px; text-align: center; ">Shivaji Roadways</p>
    <div style="text-transform: lowercase; id="busNo"><%=rs.getString("email")%></div>
    <div style="width: 100%;>
        <span class="dateTime" style="float: right;"><%=rs.getString("bookingDate")%></span>
    </div>
    <div style="text-align: center; >
        <span id="ticketNo"><%=busType%> <%=rs.getString("ticketNo")%></span><span style="margin-
left: 20px;"><%=rs.getString("routeNo")%></span>
    </div>
    <div style="width: 100%;"><%=rs.getString("source").length() < 25? rs.getString("source"): rs.get
String("source").substring(0, 25)%><span style="float: right; ;">To</span></span></p>
    <p style="text-align: right;"><%=rs.getString("destination").length() < 25? rs.getString("destinat
ion"): rs.getString("destination").substring(0, 25)%></p>
    <p style="text-align: center;">Passangers: <%=rs.getInt("noOfPassangers")%></p>
    <p style="text-align: center; font-size: 17px;">Not transferable</p>
    <p style="text-align: center; font-size: 50px; font-
weight: bold;">FARE: <span>₹<%=rs.getInt("fare")%></span></p>
</div>

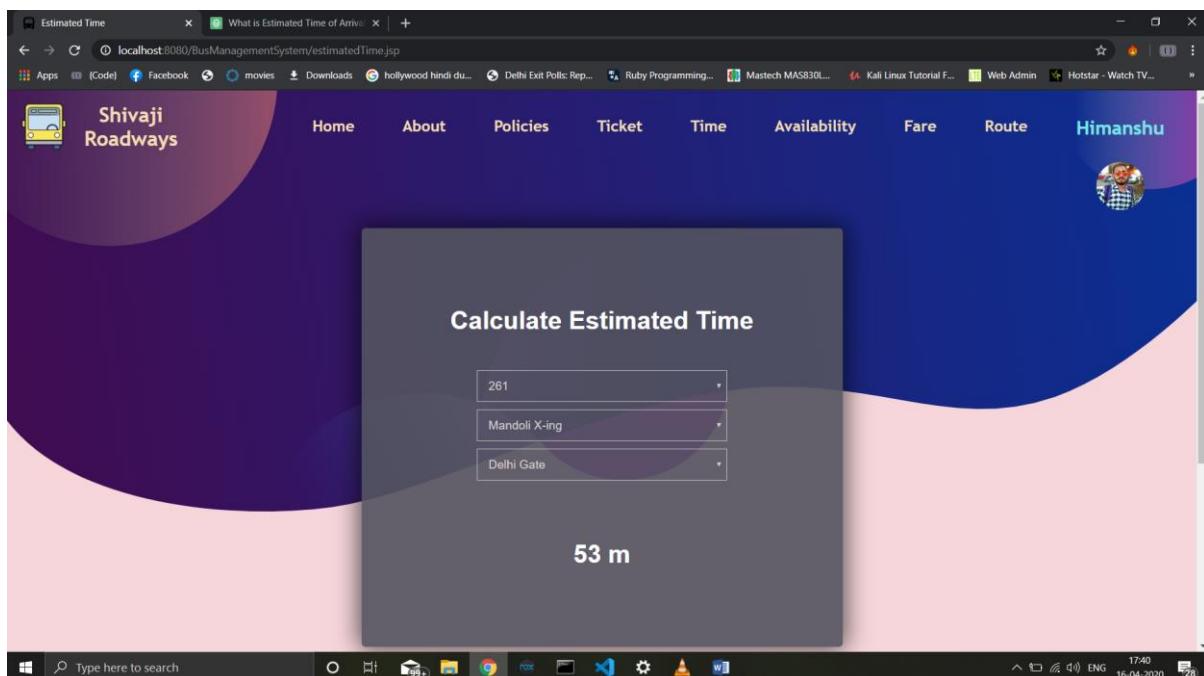
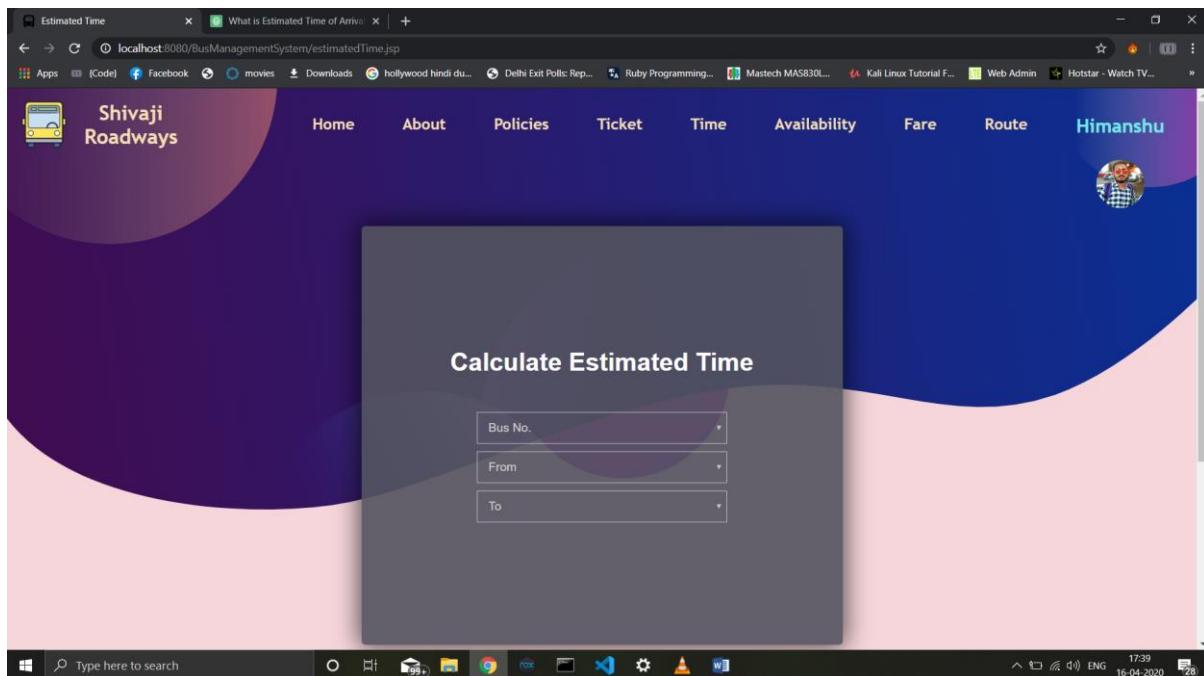
```

```
<%}
else
{%
    <h1 id="msg"><span style="color: red">Sorry you've not sufficient balance</span></h1>
%>
%>
</body>
</html>
```

estimatedTime.jsp

This module is provide information about the time is to be taken by the bus in completion of journey.

Output



Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/leave.css">
    <link rel="icon" href="images/icon.png">
    <title>Estimated Time</title>
</head>
<body onchange="calculateEsTime();">
<%
if(session.getAttribute("email") == null || !session.getAttribute("role").equals("passanger"))
{
    response.sendRedirect("authentication.jsp");
}
%>

<%@page import="java.sql.*"%>
<%
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234");
    };
    st = con.createStatement();
    String query = "select routeNo from route order by serialNo";
    rs = st.executeQuery(query);
}
catch(Exception e)
{
    out.print(e.getMessage());
}
%>
<jsp:include page="navigationPannel.jsp"></jsp:include>

<jsp:include page="svg.jsp"></jsp:include>

<div class="container">
    <div class="workspace">
        <form>
            <h1>Calculate Estimated Time</h1>
            <select name="routeNo" onchange="updateStands(this.value);">
                <option value="" disabled selected >Bus No.</option>
                <%
                    while(rs.next())
                %>
                <option><%=rs.getString("routeNo")%></option>
            <%
                %>
            </select>
            <select name="source" onchange="disableTo(this.value, this.length)">
                <option value="" disabled selected >From</option>
            </select>
            <select name="destination" onchange="disableFrom(this.value, this.length)">
                <option value="" disabled selected >To</option>
            </select>
            <h1 style="margin-top: 5vw;" id="est"></h1>
        </form>
    </div>
</div>

<jsp:include page="footer.jsp"></jsp:include>
```

```

</body>
<script src="scripts/navPannel.js"></script>
<script src="scripts/disable.js"></script>
<script>
    function updateStands(routeNo)
    {
        var source = document.getElementsByName('source')[0];
        var destination = document.getElementsByName('destination')[0];

        var param = "?routeNo=" + routeNo;
        param = param.replace("+", "%2b");

        var xmlhttp = new XMLHttpRequest();
        xmlhttp.open("POST", "estimatedTimeAJAX.jsp" + param, false);

        xmlhttp.onreadystatechange = function(){
            source.innerHTML =
            destination.innerHTML = xmlhttp.responseText;
        }
        xmlhttp.send();

        var placeholder = document.getElementsByClassName('placeholder');
        placeholder[0].text = "From";
        placeholder[1].innerHTML = "To";
    }
    window.addEventListener('load', function () {
        var routeNo = document.getElementsByName('routeNo')[0].value;
        if(routeNo)
        {
            setTimeout(function(){
                updateStands(routeNo);
            }, 500);
        }
    })
}

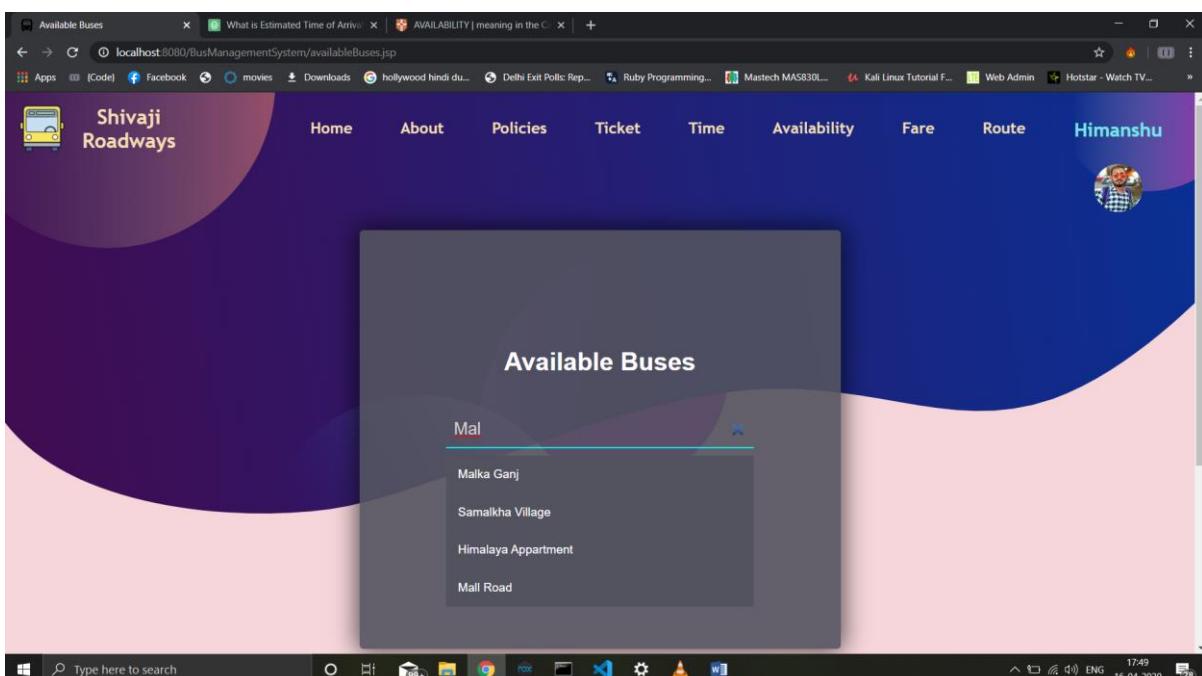
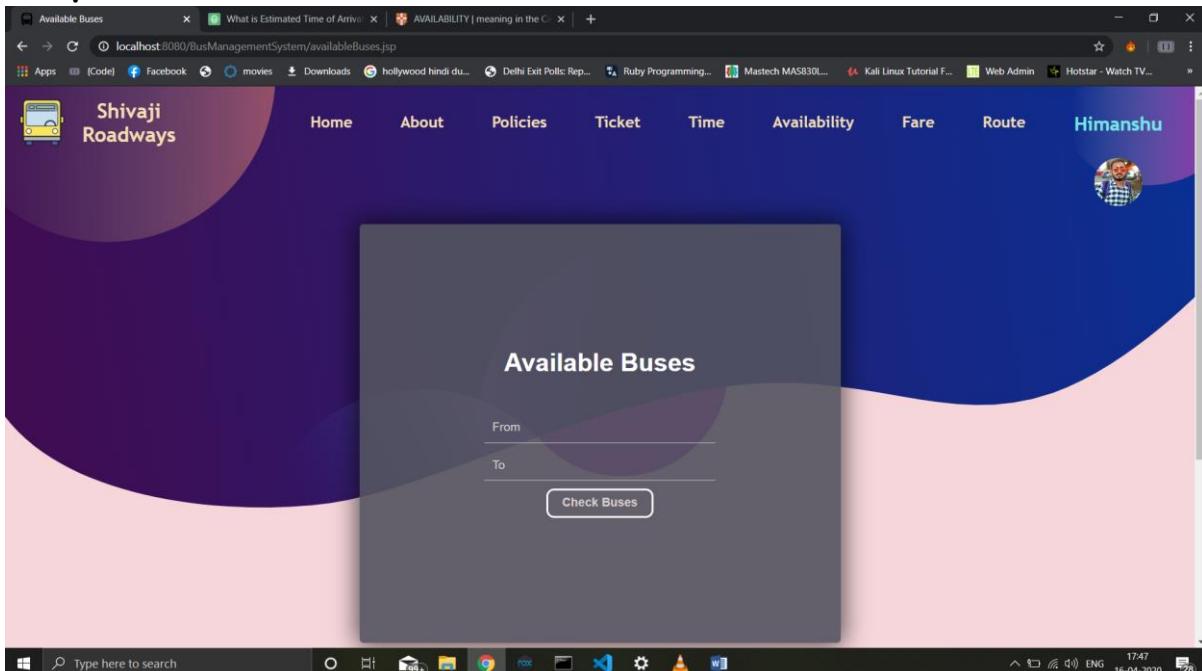
function calculateEsTime()
{
    var source = document.getElementsByName('source')[0].value;
    var destination = document.getElementsByName('destination')[0].value;
    if(source && destination)
    {
        var time = "";
        var MINUTES = Math.abs(source - destination) * 6;      // assumed 1 km cover 6 min;
        if(MINUTES > 20)
            MINUTES += Math.floor(Math.random() * (+6 - +0) + +0); //random traffic of 0 to 5 min
        var m = MINUTES % 60;
        var h = (MINUTES-m)/60;
        if(h > 0)
        {
            time = h+ " h " + m + " m";
        }
        else
        {
            time = m + " m";
        }
        document.getElementById('est').innerHTML = time;
        console.log(time);
    }
    else
        document.getElementById('est').innerHTML = "";
    }
}
</script>
</html>

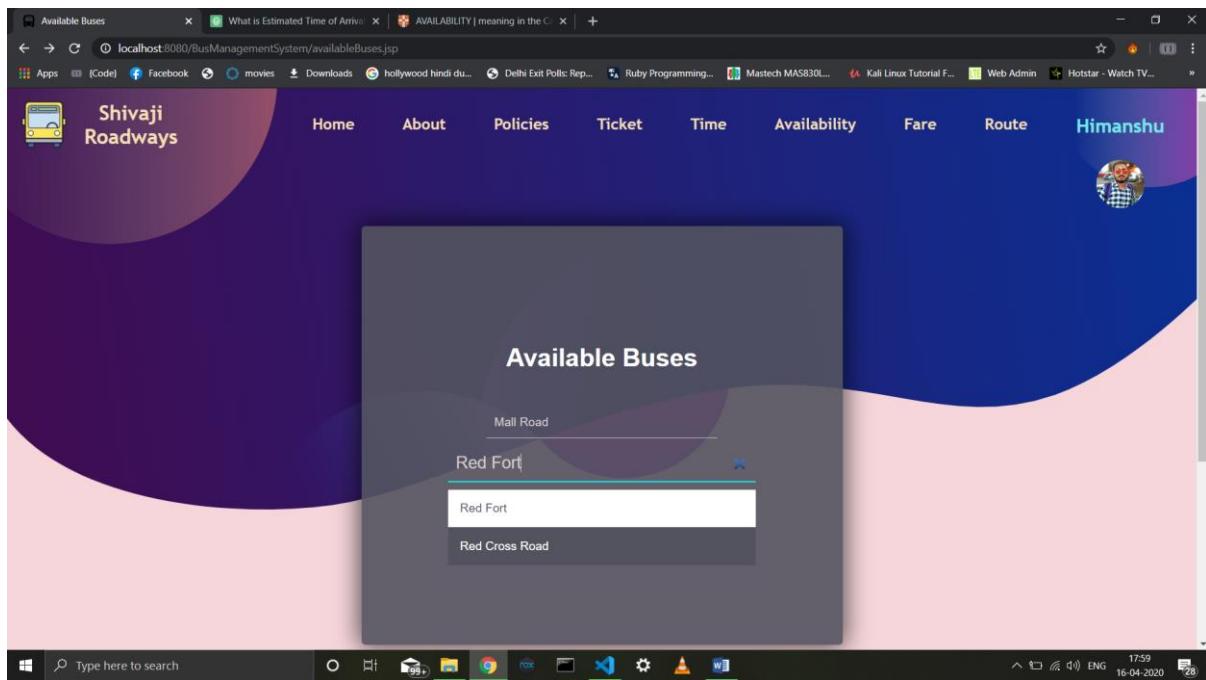
```

availableBuses.jsp

This module provide information about all the available buses from a source to destination as per request of passanger.

Output





Selection: action → busesResult.jsp

Source	Mall Road
Destination	Red Fort

Source Code

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/leave.css">
    <link rel="icon" href="images/icon.png">
    <title>Available Buses</title>
    <style>
        .searchOutput
        {
            background-color:green;
            height: 0;
            width: 80%;
            margin: 0 auto;
            display: none;
        }
        .searchOutput .list
        {
            background-color: rgb(83, 83, 95);
            width: 100%;
            max-height: 12.6vw;
            overflow-y: scroll;
            position: relative;
        }
        .searchOutput .list::-webkit-scrollbar
    </style>

```

```

        {
            display: none;
        }
        .searchOutput .list p
        {
            color: white;
            padding: 1vw;
            font-size: 1vw;
            margin: 0 auto;
            transition: ease all .7s;
        }
        .searchOutput .list p:hover
        {
            background-color: white;
            cursor: pointer;
            color: rgb(83, 83, 95);
        }
        input[type="search"]:focus + .searchOutput
        {
            display: block;
        }
    </style>
</head>
<body>
<%
if(session.getAttribute("email") == null || !session.getAttribute("role").equals("passanger"))
{
    response.sendRedirect("authentication.jsp");
}
%>

<jsp:include page="navigationPannel.jsp"></jsp:include>
<jsp:include page="svg.jsp"></jsp:include>
<div class="container">
    <div class="workspace">
        <form action="busesResult.jsp">
            <h1>Available Buses</h1>
            <input type="search" id="from" placeholder="From" onkeyup="getFrom(this.value); " name="source" autocomplete="on">
                <div class="searchOutput">
                    <div class="list"></div>
                </div>
            <input type="search" id="to" placeholder="To" onkeyup="getTo(this.value); " name="destination" autocomplete="on">
                <div class="searchOutput">
                    <div class="list"></div>
                </div>
            <input type="submit" value="Check Buses">
        </form>
    </div>
    <jsp:include page="footer.jsp"></jsp:include>
</body>
<script src="scripts/navPannel.js"></script>
<script>
function setFrom(value)
{
    console.log(value);
    document.getElementById('from').value = value;
}
function setTo(value)
{
    console.log(value);
    document.getElementById('to').value = value;
}
function getFrom(keyword)
{
    var param = "?keyword=" + keyword;
    param = param.replace("+", "%2b");

    var xmlhttp = new XMLHttpRequest();
    xmlhttp.open("POST", "availableBusesAJAX.jsp" + param, false);

```

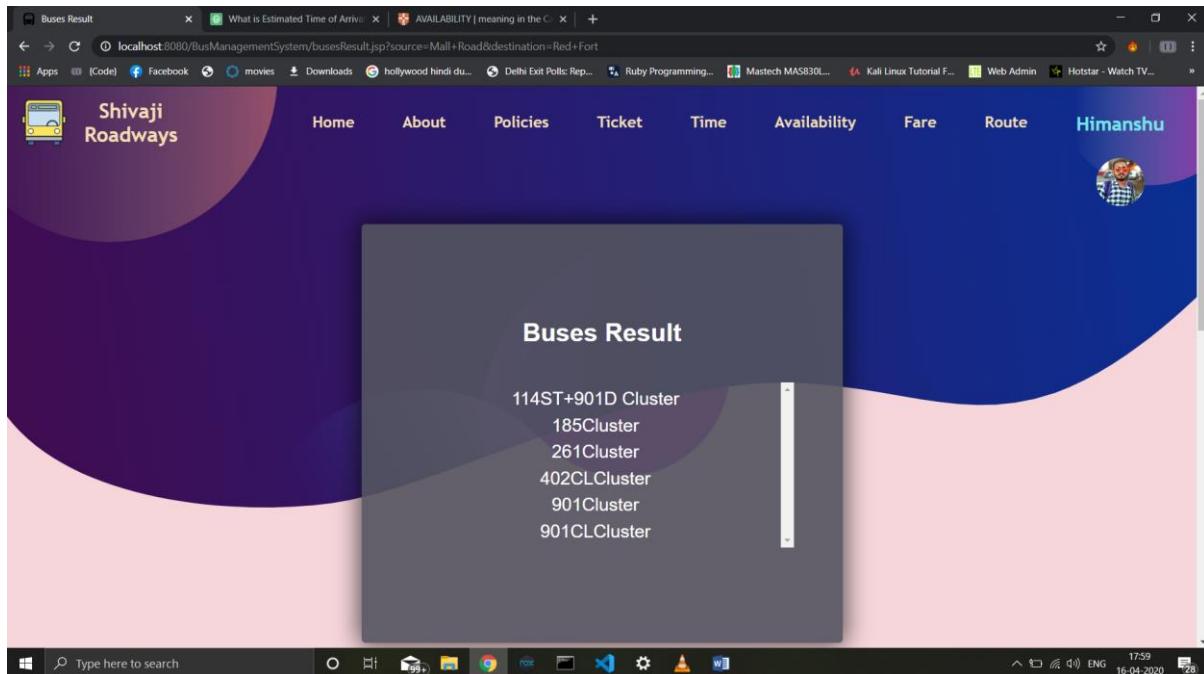
```
xmlhttp.onreadystatechange = function(){
    document.getElementsByClassName('list')[0].innerHTML = xmlhttp.responseText;
}
xmlhttp.send();
}
function getTo(keyword)
{
    var param = "?keyword=" + keyword;
    param = param.replace("+", "%2b")

    var xmlhttp = new XMLHttpRequest();
    xmlhttp.open("POST", "availableBusesAJAX2.jsp" + param, false);

    xmlhttp.onreadystatechange = function(){
        document.getElementsByClassName('list')[1].innerHTML = xmlhttp.responseText;
    }
    xmlhttp.send();
}
</script>
</html>
```

busesResult.jsp

Output



Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/leave.css">
    <link rel="icon" href="images/icon.png">
    <title>Buses Result</title>
    <style>
        .workspace form p
        {
            color: white;
            margin: .5vw;
            text-align: center;
            font-size: 1.5vw;
        }
    </style>
</head>
<body>
<%@page import="java.sql.*"%>
<%
    String source = request.getParameter("source");
    String destination = request.getParameter("destination");
    Connection con = null;
    Statement st = null;
```

```

ResultSet rs = null;
try
{
    Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
    st = con.createStatement();
    String query = "select routeNo from routeStands where standName= '" + source + "' and routeNo
in( select routeNo from routeStands where standName = '" + destination + "');");
    rs = st.executeQuery(query);
}
catch(Exception e)
{}
%>
<jsp:include page="navigationPannel.jsp"></jsp:include>

<jsp:include page="svg.jsp"></jsp:include>
<div class="container">
    <div class="workspace">
        <form action="temp.jsp">
            <%
                if(rs.next())
                {
                    rs.previous();
                %>
                    <h1>Buses Result</h1>
                <%
                else
                {%
                    <h1>No Bus Found</h1>
                <%}
                %>
                    <div class="result" style="max-height: 20vw; overflow-y: scroll;">
                        <%
                            while(rs.next())
                            {%
                                <p><%=rs.getString("routeNo")%></p>
                            <%}
                        %>
                    </div>

                </form>
            </div>
        </div>
        <div class="container" style="margin-top: 4vw;">
            <div class="workspace" id="standList" style="height: auto; color: white;padding-
top: 0.5vw; padding-bottom: 0.5vw; opacity: 0;">
            </div>
        </div>

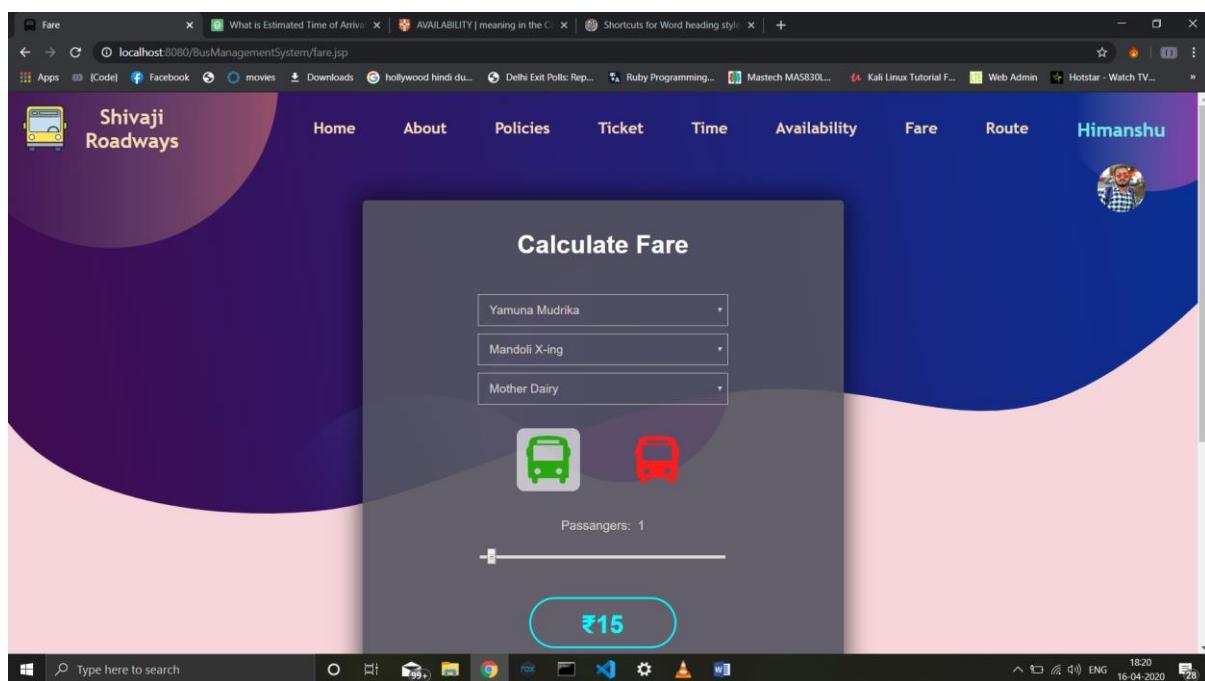
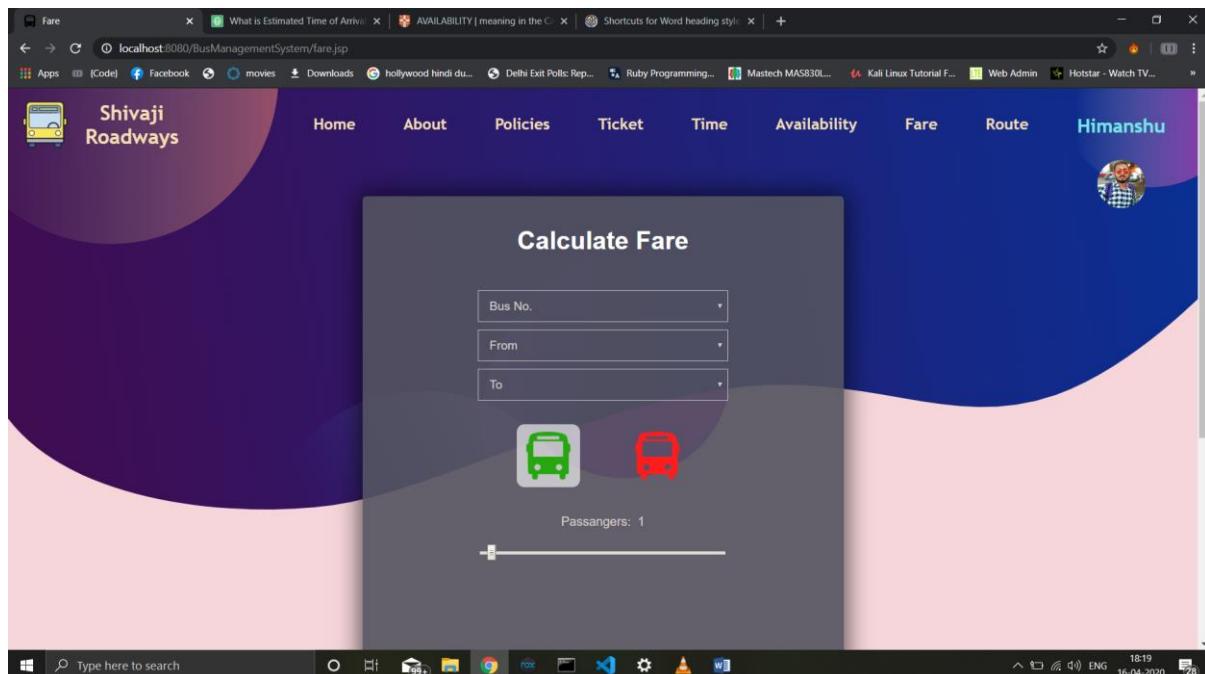
        <jsp:include page="footer.jsp"></jsp:include>
    </body>
    <script src="scripts/navPannel.js"></script>
</html>

```

fare.jsp

This module is for calculating fare for a route from a source to destination with having type (AC or ORD) and no of passengers. This page make an AJAX request and display FARE.

Output



Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/leave.css">
    <link rel="icon" href="images/icon.png">
    <title>Fare</title>
    <style>
        .busTypeContainer
        {
            width: 220px;
            margin: 2vw auto;
        }
        .busTypeContainer label
        {
            background-size: 80% 80%;
            background-repeat: no-repeat;
            background-position: center;
            border-radius: 10px;
            transition: ease-in-out .7s;
        }
        input[type="radio"]{
            display:none;
        }
        label:last-child {
            float: right !important;
        }
        input[type="radio"] + label
        {
            border: 2px solid transparent;
            height: 5vw;
            width: 5vw;
            display:inline-block;
            padding: 0 0 0 0px;
            cursor: pointer;
        }
        input[type="radio"]:checked + label
        {
            background-color: rgba(255, 255, 255, 0.63);
            height: 5vw;
            width: 5vw;
            display:inline-block;
            padding: 0 0 0 0px;
            cursor: default;
        }
        #fare
        {
            margin: 2vw auto;
            border: 2px solid aqua;
            color: aqua;
            padding: 1vw;
            width: 10vw;
            border-radius: 2.5vw;
            transition: ease-in-out .7s;
            height: 2vw;
        }
        #fare:empty
        {
            opacity: 0;
        }
    </style>
</head>
```

```

<body onload="changeRange();" onchange="checkValid('Dom changed');">
<%@page import="java.sql.*"%>
<%
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
        st = con.createStatement();
        String query = "select routeNo from route order by serialNo";
        rs = st.executeQuery(query);
    }
    catch(Exception e)
    {
        out.print(e.getMessage());
    }
%>

<jsp:include page="navigationPannel.jsp"></jsp:include>
<jsp:include page="svg.jsp"></jsp:include>
<div class="container" style="height: 40vw; margin-top: 29vw;">
    <div class="workspace">
        <form>
            <h1>Calculate Fare</h1>
            <select name="routeNo" onchange="updateStands(this.value);">
                <option value="" disabled selected >Bus No.</option>
                <%
                    while(rs.next())
                {%
                    <option><%=rs.getString("routeNo")%></option>
                %}
                %
            </select>
            <select name="source" onchange="disableTo(this.value, this.length)">
                <option value="" disabled selected >From</option>
            </select>
            <select name="destination" onchange="disableFrom(this.value, this.length)">
                <option value="" disabled selected >To</option>
            </select>
            <div class="busTypeContainer">
                <input type="radio" id="ORD" value="ORD" name="type" checked>
                <label for="ORD" style="background-image: url('images/ord.png');"></label>
                <input type="radio" id="AC" value="AC" name="type">
                <label for="AC" style="background-image: url('images/ac.png');"></label>
            </div>
            <p id='rangeOutput'></p>
            <input type="range" value="1" min="1" max="20" onchange="changeRange(); class="noOfPa
ssangers" name="noOfPassangers">
            <h1 id="fare"></h1>
        </form>
    </div>
</div>

<jsp:include page="footer.jsp"></jsp:include>
</body>
<script src="scripts/navPannel.js"></script>
<script src="scripts/disable.js"></script>
<script>
    function changeRange()
    {
        var range = document.getElementsByClassName('noOfPassangers')[0].value;
        document.getElementById('rangeOutput').innerHTML = range;
    }
    function updateStands(routeNo)
    {
        var source = document.getElementsByName('source')[0];
        var destination = document.getElementsByName('destination')[0];

        var param = "?routeNo=" + routeNo;
        param = param.replace("+", "%2b")
    }
</script>

```

```

var xmlhttp = new XMLHttpRequest();
xmlhttp.open("POST", "ticketAJAX.jsp" + param, false);

xmlhttp.onreadystatechange = function(){
    source.innerHTML =
        destination.innerHTML = xmlhttp.responseText;
}
xmlhttp.send();

var placeholder = document.getElementsByClassName('placeholder');
placeholder[0].text = "From";
placeholder[1].innerHTML = "To";
}

window.addEventListener('load', function () {
    var routeNo = document.getElementsByName('routeNo')[0].value;
    if(routeNo)
    {
        setTimeout(function(){
            updateStands(routeNo);
        }, 200);
    }
})
function checkValid()
{
    var routeNo = document.getElementsByName('routeNo')[0].value;
    var source = document.getElementsByName('source')[0].value;
    var destination = document.getElementsByName('destination')[0].value;
    var nop = document.getElementsByClassName('noOfPassangers')[0].value;
    var type = ""
    if (document.getElementById('ORD').checked) {
        type = document.getElementById('ORD').value;
    }
    else if (document.getElementById('AC').checked) {
        type = document.getElementById('AC').value;
    }
    if(routeNo && source && destination)
    {
        getFare(routeNo, source, destination, nop, type)
    }
}

function getFare(routeNo, source, destination, nop, type)
{
    var fareValue = document.getElementById('fare');
    if (document.getElementById('ORD').checked) {
        type = document.getElementById('ORD').value;
    }
    else if (document.getElementById('AC').checked) {
        type = document.getElementById('AC').value;
    }

    var param = "?routeNo=" + routeNo + "&source=" + source + "&destination=" + destination + "&type=" + type + "&noOfPassangers=" + nop;

    param = param.replace("+", "%2b")
    param = param.replace("(, "%28")
    param = param.replace(")", "%29")

    var xmlhttp = new XMLHttpRequest();
    xmlhttp.open("POST", "fareAJAX.jsp" + param, false);

    xmlhttp.onreadystatechange = function(){
        source.innerHTML =
            fareValue.innerHTML = xmlhttp.responseText;
    }
    xmlhttp.send();
}

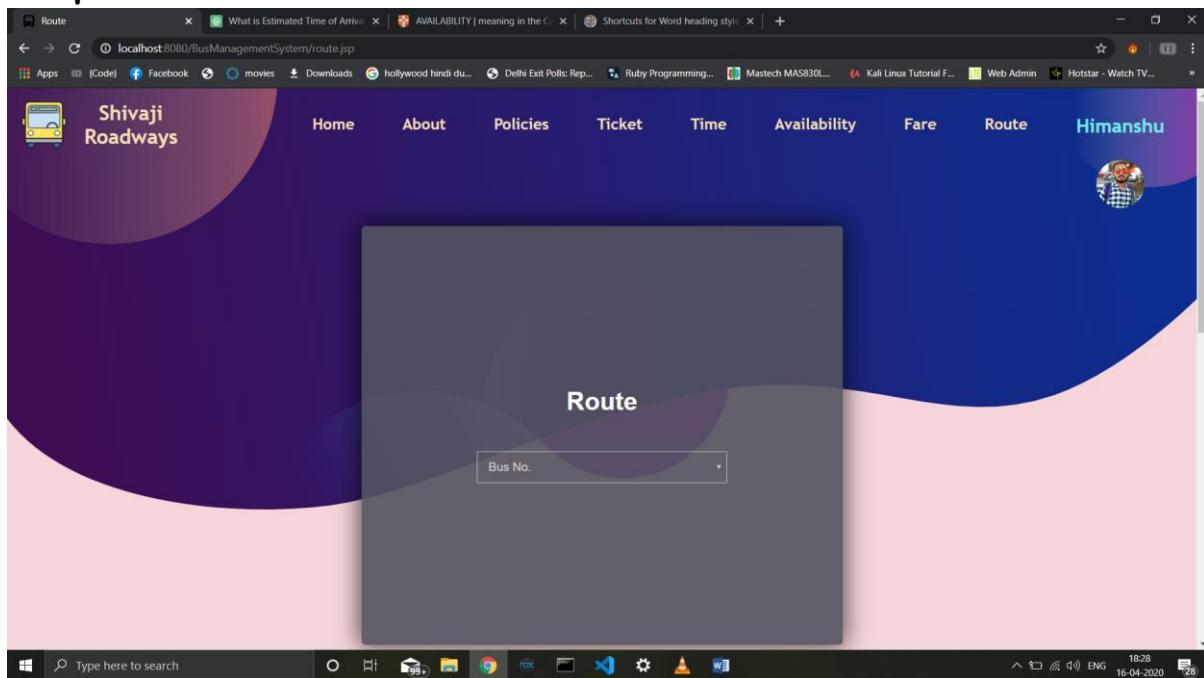
</script>
</html>

```

route.jsp

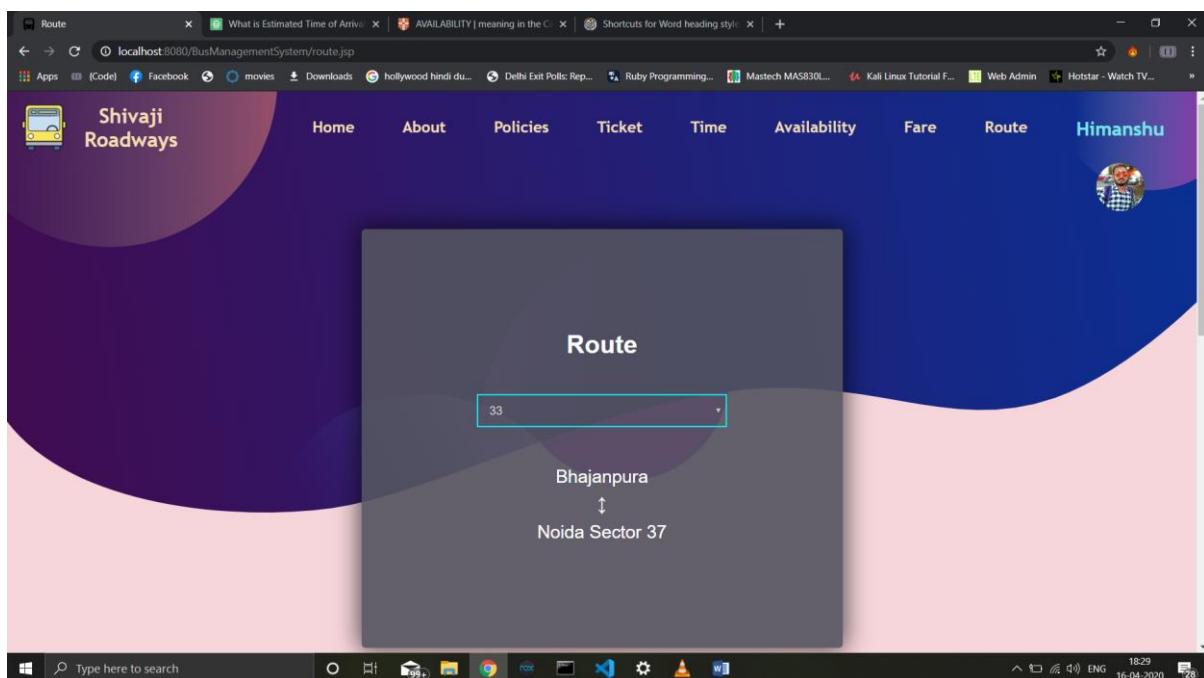
This module is to provide source and destination of a given route and also all the stages.

Output



Selecting route: 33

Getting : Bhajanpura (Source) and Noida Sector 37 (Destination)



Stages of selected route: 33

A screenshot of a Microsoft Edge browser window. The title bar shows the URL `localhost:8080/BusManagementSystem/route.jsp`. The page header includes a logo for "Shivaji Roadways" and navigation links for Home, About, Policies, Ticket, Time, Availability, Fare, Route, and a user profile for "Himanshu". A modal dialog box is open, displaying a list of 11 bus stops: 1 Bhajanpura, 2 Yamuna Vihar C-4, 3 Babarpur Extn., 4 Jyoti Colony, 5 Nand Nagri Terminal, 6 Anand Gram, 7 Seema Puri, 8 Surya Nagar, 9 Anand Vihar ISBT (Viveka Nand ISBT), 10 N.H. 24 X-ing, and 11 Kalyan Puri X-ing.

A screenshot of a Microsoft Edge browser window, identical to the one above but showing a different section of the route list. The modal dialog box displays a list of 13 bus stops: 13 Mayur vihar Phase-III Crossing, 14 Noida Sector 12 A-Block, 15 Noida Sector 56, 16 Noida Sector 12 Chora More, 17 Noida Sector 10-21, 18 Noida Sector 19 Telephone Exchange, 19 Noida Sector 27 Market / Rajni Gandha Chowk, 20 Noida Sector 18 Metro Station / Atta Chowk, 21 Botanical Garden Metro Station, 22 Noida Sector 37 Water Tank, and 23 Noida Sector 37.

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/leave.css">
    <link rel="icon" href="images/icon.png">
    <title>Route</title>
    <style>
        #standList
        {
            max-height: 30vw;
            overflow-y: scroll;
        }
        .workspace p
        {
            font-size: 1.5vw;
            padding-top: 0.5vw;
            padding-bottom: 0.5vw;
            padding-left: 2vw;
        }
    </style>
</head>
<body>
    <%
        if(session.getAttribute("email") == null || !session.getAttribute("role").equals("passanger"))
        {
            response.sendRedirect("authentication.jsp");
        }
    %>

<%@page import="java.sql.*" %>
<%
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234");
    };
    st = con.createStatement();
    String query = "SELECT routeNo FROM route order by serialNo";
    rs = st.executeQuery(query);
}
catch(Exception e)
{
    out.print(e.getMessage());
}
%>
<jsp:include page="navigationPannel.jsp"></jsp:include>

<jsp:include page="svg.jsp"></jsp:include>
<div class="container">
    <div class="workspace">
        <form action="temp.jsp">
            <h1>Route</h1>
            <select name="routeNo" onchange="getResults(this.value); getStandList(this.value);">
                <option value="" disabled selected >Bus No.</option>
                <%
                    while(rs.next())
                %>
                <option><%=rs.getString("routeNo")%></option>
            <%
            %>
        </form>
    </div>
</div>
```

```

        </select>
        <div id="result"></div>
    </form>
</div>
<div class="container" style="margin-top: 4vw;">
    <div class="workspace" id="standList" style="height: auto; color: white; padding-
top: 0.5vw; padding-bottom: 0.5vw; opacity: 0;">
    </div>
</div>

<jsp:include page="footer.jsp"></jsp:include>
</body>
<script src="scripts/navPannel.js"></script>
<script>
    function getResults(route)
    {
        var xmlhttp = new XMLHttpRequest();
        var param = "?routeNo=" + route;
        param = param.replace("+", "%2b")

        xmlhttp.open("POST", "routeAJAX.jsp" + param, true);
        xmlhttp.send();
        xmlhttp.onreadystatechange = function()
        {
            document.getElementById('result').innerHTML = xmlhttp.responseText;
        }
    }

    function getStandList(route)
    {
        document.getElementById('standList').style.opacity = "1";
        var xmlhttp = new XMLHttpRequest();
        var param = "?routeNo=" + route;
        param = param.replace("+", "%2b")
        xmlhttp.open("POST", "routeAJAX2.jsp" + param, true);
        xmlhttp.send();
        xmlhttp.onreadystatechange = function()
        {
            document.getElementById('standList').innerHTML = xmlhttp.responseText;
        }
    }
</script>
</html>

```

Signing In with Staff's account

The screenshot shows the MySQL Workbench interface. In the 'Query 1' editor, the following SQL query is entered:

```
1· SELECT * FROM conductor;
```

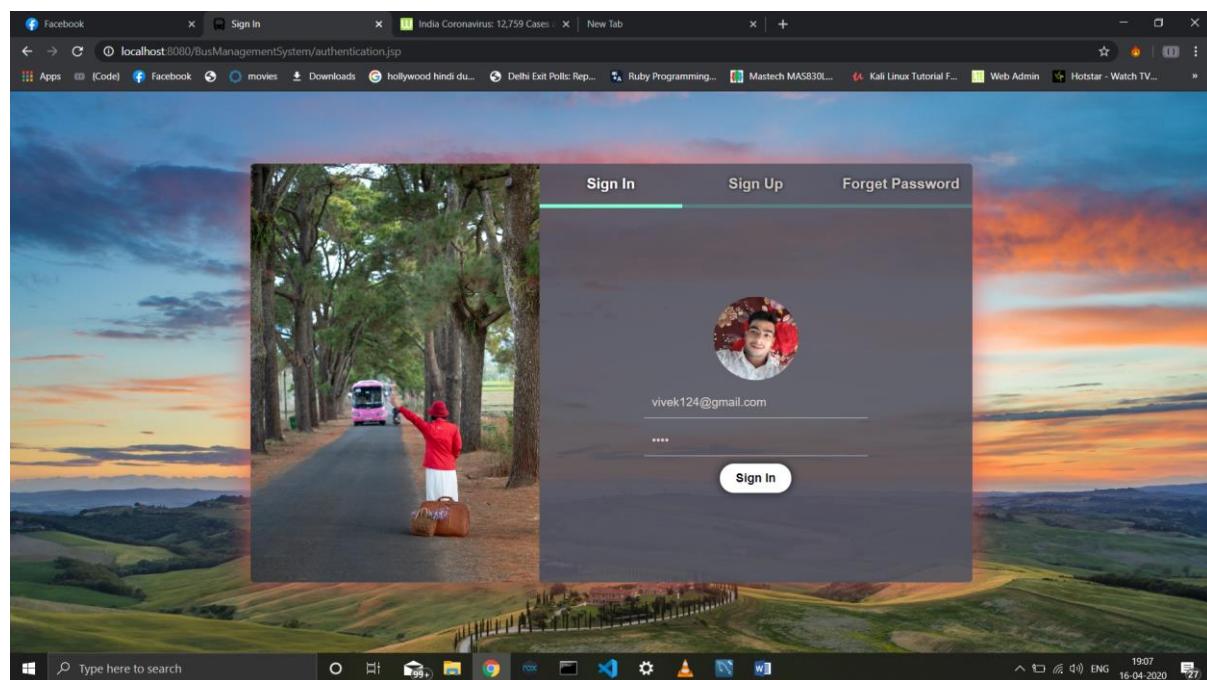
The results grid displays the following data:

email	name	phone	password	dob	profilePic
knishant117@gmail.com	Nishant Kumar	7838716089	1234	1999-11-25	BLOB
mark@facebook.com	Mark Zuckerberg	1234567890	1234	1984-05-14	BLOB
vivek124@gmail.com	vivek	1234567890	1234	2020-12-27	BLOB
*					

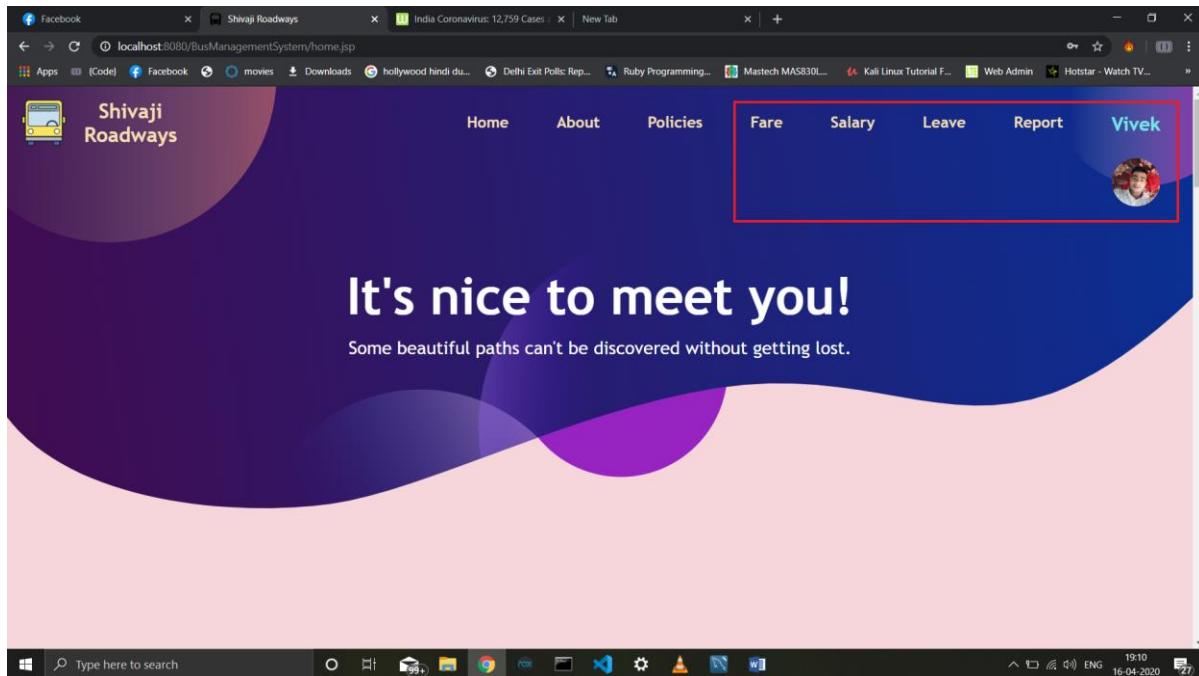
Role: Conductor

Credentials:

- Email: vivek124@gmail.com
- Password: 1234



Signed In



We have some new links in our navigation panel

- Fare
- Salary
- Leave
- Report

Let's explore them one by one

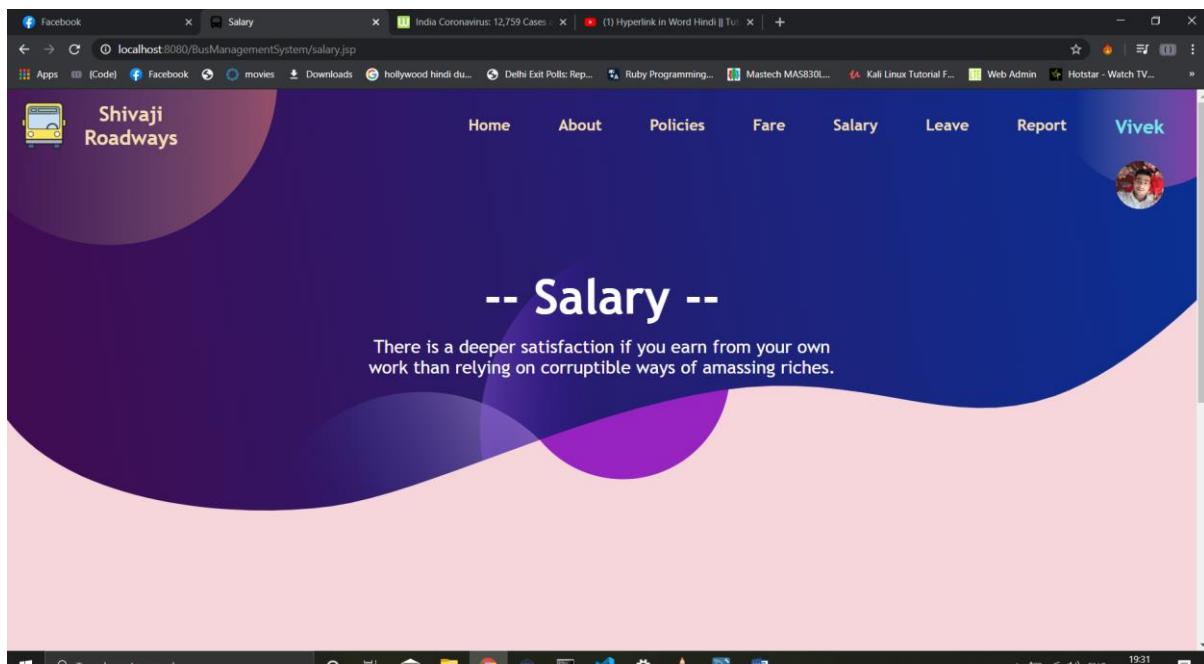
fare.jsp

This module is already discussed above so don't need to again rewrite those stuffs you can manually go into fare.jsp or can click [fare.jsp](#)

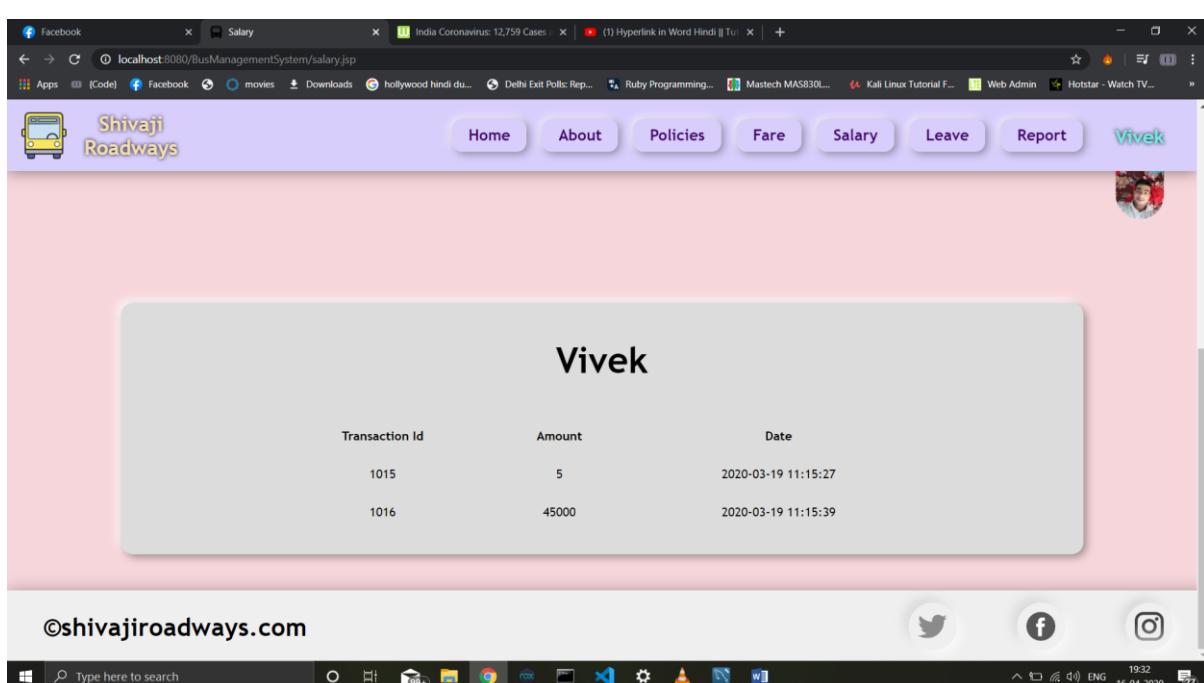
salary.jsp

Salary module is to provide information regarding salary on the particular logged in account.

Output



The screenshot shows a web browser window with the URL `localhost:8080/BusManagementSystem/salary.jsp`. The page has a dark blue header with the Shivaji Roadways logo on the left and a user profile picture on the right. The top navigation bar includes links for Home, About, Policies, Fare, Salary, Leave, Report, and a dropdown for 'Vivek'. The main content area features a large purple and pink abstract background with the text "-- Salary --" in white. Below it is a quote: "There is a deeper satisfaction if you earn from your own work than relying on corruptible ways of amassing riches." At the bottom of the page, there is a footer with the website address `©shivajiroadways.com` and social media icons for Twitter, Facebook, and Instagram.



The second screenshot shows the same salary page, but the central content area is now a light gray box displaying a transaction history for the user 'Vivek'. The table has columns for Transaction Id, Amount, and Date. The data is as follows:

Transaction Id	Amount	Date
1015	5	2020-03-19 11:15:27
1016	45000	2020-03-19 11:15:39

Database Output

The screenshot shows the MySQL Workbench interface. In the left sidebar, under the 'Schemas' section, the 'shivaJiroadways' database is selected. The 'Tables' section lists various tables such as admin, conductor, driver, email, leave_request, passenger, policy, report, route, routestands, salary, ticket, ticketchecker, and test. A 'Query 1' tab is open with the following SQL query:

```
1 • SELECT * FROM salary where email = 'vivek124@gmail.com';
```

The result grid displays two rows of data:

transactionNo	email	amount	date
1015	vivek124@gmail.com	5	2020-03-19 11:15:27
1016	vivek124@gmail.com	45000	2020-03-19 11:15:39

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/policies.css">
    <link rel="icon" href="images/icon.png">
    <title>Salary</title>

</head>
<body>
    <%
        if(session.getAttribute("email") == null)
        {
            response.sendRedirect("authentication.jsp");
        }
        else if(session.getAttribute("role").equals("admin"))
        {
            response.sendRedirect("authentication.jsp");
        }
        else if(session.getAttribute("role").equals("passanger"))
        {
            response.sendRedirect("authentication.jsp");
        }
    %>
<%@page import="java.sql.*"%>
<jsp:include page="navigationPannel.jsp"></jsp:include>
<div class="container">
    <jsp:include page="svg.jsp"></jsp:include>
    <div class="innerContainer">
        <h1>-- Salary --</h1>
        <p>There is a deeper satisfaction if you earn from your own<br> work than relying on corru
ptible ways of amassing riches.</p>
```

```

</div>
<div class="policy">
    <h1 style="text-transform: capitalize;">${name}</h1>
    <table>
        <tr>
            <th>Transaction Id</th>
            <th>Amount</th>
            <th>Date</th>
        </tr>
        <%
        Connection con = null;
        Statement st = null;
        ResultSet rs = null;
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234");
            st = con.createStatement();
            String query = "select transactionNo, amount, date from salary where email='"+session.getAttribute("email")+"'";
            rs = st.executeQuery(query);
            while(rs.next())
            {
                <tr>
                    <tr>
                        <td><%=rs.getInt("transactionNo")%></td>
                        <td><%=rs.getInt("amount")%></td>
                        <td><%=rs.getString("date")%></td>
                    </tr>
                </tr>
            }
        }
        catch(Exception e){out.print(e.getMessage());}
    </table>
</div>
<jsp:include page="footer.jsp"></jsp:include>

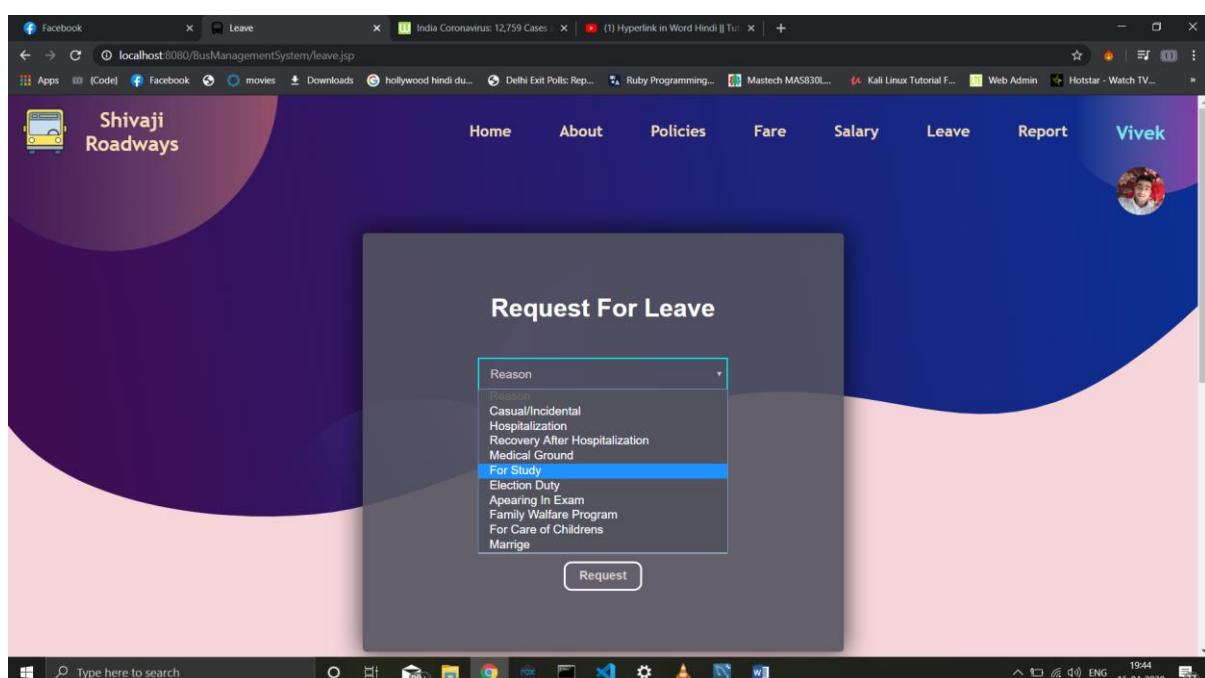
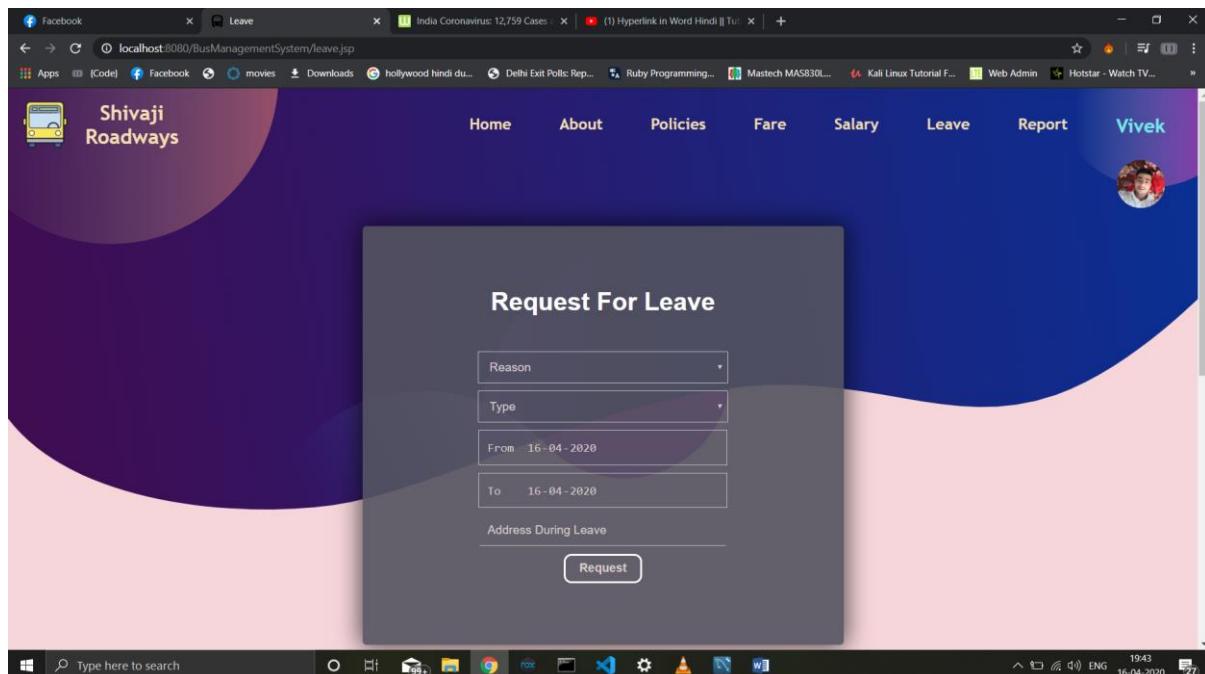
</body>
<script src="scripts/navPannel.js"></script>
</html>

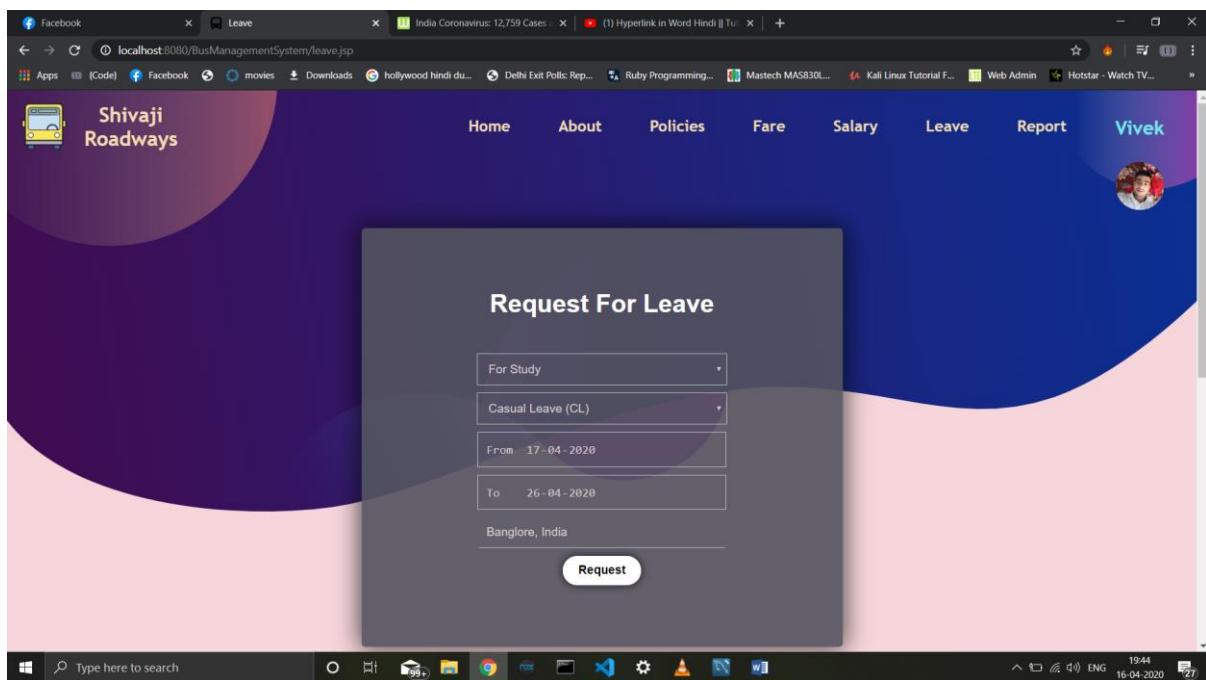
```

leave.jsp

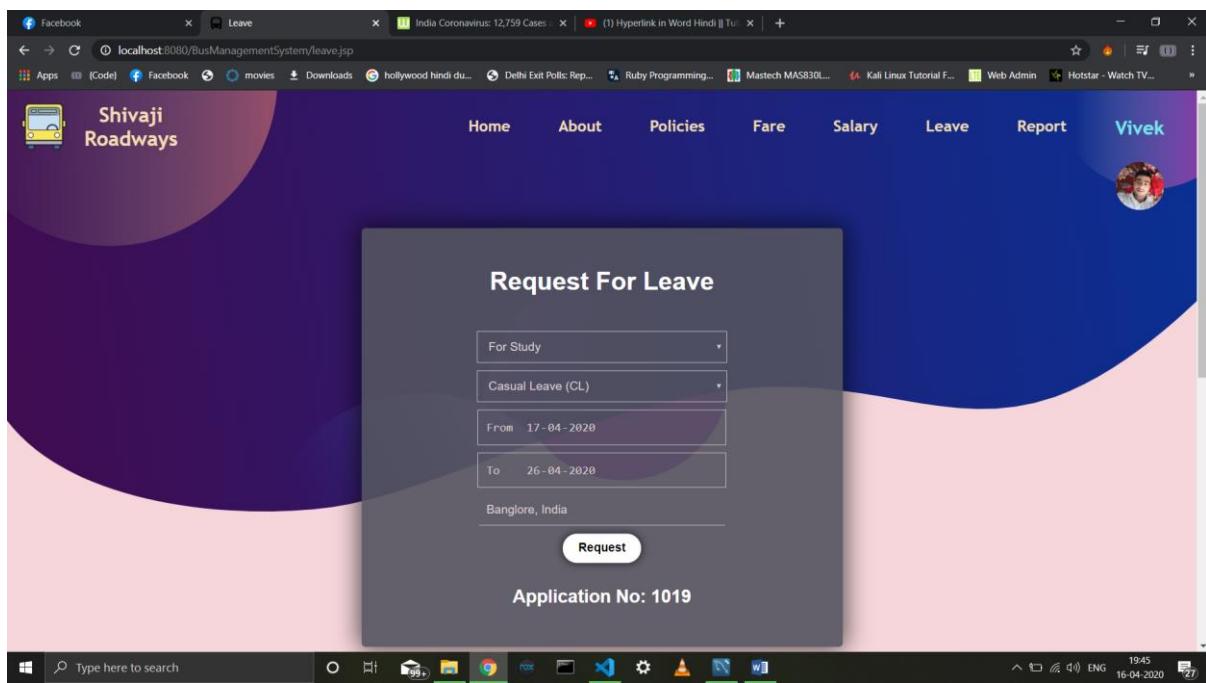
This module is to providing facility to staff for online apply for a leave

Output





Getting Application No: 1019



Entry into database

The screenshot shows the MySQL Workbench interface with a query editor containing the SQL command:

```
1· SELECT * FROM leave_request;
```

The results grid displays a list of leave applications from the 'leave_request' table. One row, application number 1019, is highlighted with a red border.

applicationNo	reason	type	date_from	date_to	address	status	email
1012	Hospitalization	Casual Leave (CL)	2020-03-16	2020-03-27	Bhajanpura	declined	knishant118@gmail.com
1013	Recovery After Hospitaliza...	Half Pay Leave (HPL)	2020-03-16	2020-03-27	Bhajanpura	approved	knishant118@gmail.com
1014	Election Duty	Leave Without Pay (LWP)	2020-03-16	2020-03-27	Bhajanpura	approved	knishant118@gmail.com
1015	Casual/Incidental	Casual Leave (CL)	2020-03-17	2020-03-19	Bhajanpura	declined	knishant118@gmail.com
1016	Hospitalization	Casual Leave (CL)	2020-03-17	2020-03-28	Bhajanpura	approved	knishant118@gmail.com
1017	Medical Ground	Maternity Leave (ML)	2020-03-17	2020-03-18	seemappuri	pending	knishant118@gmail.com
1018	Casual/Incidental	Maternity Leave (ML)	2020-03-22	2020-03-28	fadsfa	pending	knishant118@gmail.com
1019	For Study	Casual Leave (CL)	2020-04-17	2020-04-26	Banglore, India	pending	vivek124@gmail.com

Let's check status of our leave application with application no: **1019**

Status: Pending

The screenshot shows a web browser window displaying the leave application status for application number 1019. The page title is "Shivaji Roadways". The main content area shows a "Check Status" button, which has been clicked, resulting in the word "Pending" being displayed below it.

Application No: 1019

Check Status

Pending

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/leave.css">
    <link rel="icon" href="images/icon.png">
    <title>Leave</title>
</head>
<body onload="setDates();">
    <style>
        #appNoResult, #applicationStatus
        {
            color: white;
            font-weight: bold;
            text-align: center;
            margin-top: 2vw;
            font-size: 1.5vw;
            text-transform: capitalize;
        }
    </style>
    <jsp:include page="navigationPannel.jsp"></jsp:include>
    <jsp:include page="svg.jsp"></jsp:include>
    <div class="container">
        <div class="workspace">
            <form onsubmit="return getApplicationNo()">
                <h1>Request For Leave</h1>
                <select id="reason" required>
                    <option value="" disabled selected style="color: rgb(214, 205, 205);">Reason</option>
                    <option>Casual/Incidental</option>
                    <option>Hospitalization</option>
                    <option>Recovery After Hospitalization</option>
                    <option>Medical Ground</option>
                    <option>For Study</option>
                    <option>Election Duty</option>
                    <option>Appearing In Exam</option>
                    <option>Family Welfare Program</option>
                    <option>For Care of Childrens</option>
                    <option>Marriige</option>
                </select>
                <select id="type" required>
                    <option value="" disabled selected style="color: rgb(214, 205, 205);">Type</option>
                    <option>Casual Leave (CL)</option>
                    <option>Half Pay Leave (HPL)</option>
                    <option>Maternity Leave (ML)</option>
                    <option>Maternity Leave (ML)</option>
                    <option>Child Care Leave (CCL)</option>
                    <option>Leave Without Pay (LWP)</option>
                    <option>Compansative Casual Leave (CCL)</option>
                    <option>Priviledge Leave (PL)</option>
                </select>
                <input required type="date" id="from" onchange="updateMin(this.value);" name="from" style="display: block;">
                <input required type="date" id="to" value="2018-07-22" name="to" style="display: block;">
                <input required type="text" name="tempAddress" id="tempAddress" placeholder="Address During Leave">
                <input type="submit" value="Request">
                <p id="appNoResult"></p>
            </form>
        </div>
    </div>
```

```

<div class="container" style="margin: 0;
    height: 22vw;">
    <div class="workspace">
        <form onsubmit="return getStatus();">
            <h1>Check Status</h1>
            <input type="text" name="applicationNo" id="applicationNo" placeholder="Application No . ">
            <input type="submit" value="Check Status">
            <p id="applicationStatus"></p>
        </form>
    </div>
</div>

<jsp:include page="footer.jsp"></jsp:include>
</body>
<%
    if(session.getAttribute("email") == null)
    {
        response.sendRedirect("authentication.jsp");
    }
    else if(session.getAttribute("role").equals("admin"))
    {
        response.sendRedirect("authentication.jsp");
    }
    else if(session.getAttribute("role").equals("passanger"))
    {
        response.sendRedirect("authentication.jsp");
    }
%>
<script src="scripts/navPannel.js"></script>
<script src="scripts/leave.js"></script>
<script>
    function getApplicationNo()
    {
        var reason = document.getElementById("reason").value;
        var type = document.getElementById("type").value;
        var from = document.getElementById("from").value;
        var to = document.getElementById("to").value;
        var tempAddress = document.getElementById("tempAddress").value;

        var param = "?reason=" + reason + "&type=" + type + "&from=" + from + "&to=" + to + "&tempAddr
        ess=" + tempAddress;
        param = param.replace("+", "%2b")
        param = param.replace("(", "%28")
        param = param.replace(")", "%29")

        var xmlhttp = new XMLHttpRequest();
        xmlhttp.open("POST", "leaveRequestAJAX.jsp" + param, false);

        xmlhttp.onreadystatechange = function(){
            document.getElementById("appNoResult").innerText = xmlhttp.responseText.trim();
        }
        xmlhttp.send();
        return false;
    }
    function getStatus()
    {
        var applicationNO = document.getElementById("applicationNo").value;
        var param = "?applicationNO=" + applicationNO;
        param = param.replace("+", "%2b")
        param = param.replace("(", "%28")
        param = param.replace(")", "%29")

        var xmlhttp = new XMLHttpRequest();
        xmlhttp.open("POST", "leaveStatusAJAX.jsp" + param, false);

        xmlhttp.onreadystatechange = function(){
            var result = document.getElementById("applicationStatus")
            var status = xmlhttp.responseText.trim();
            if(status == "pending")
                result.style.color = "yellow";
            else if(status == "declined")
                result.style.color = "rgb(78, 12, 12)";
        }
    }
</script>

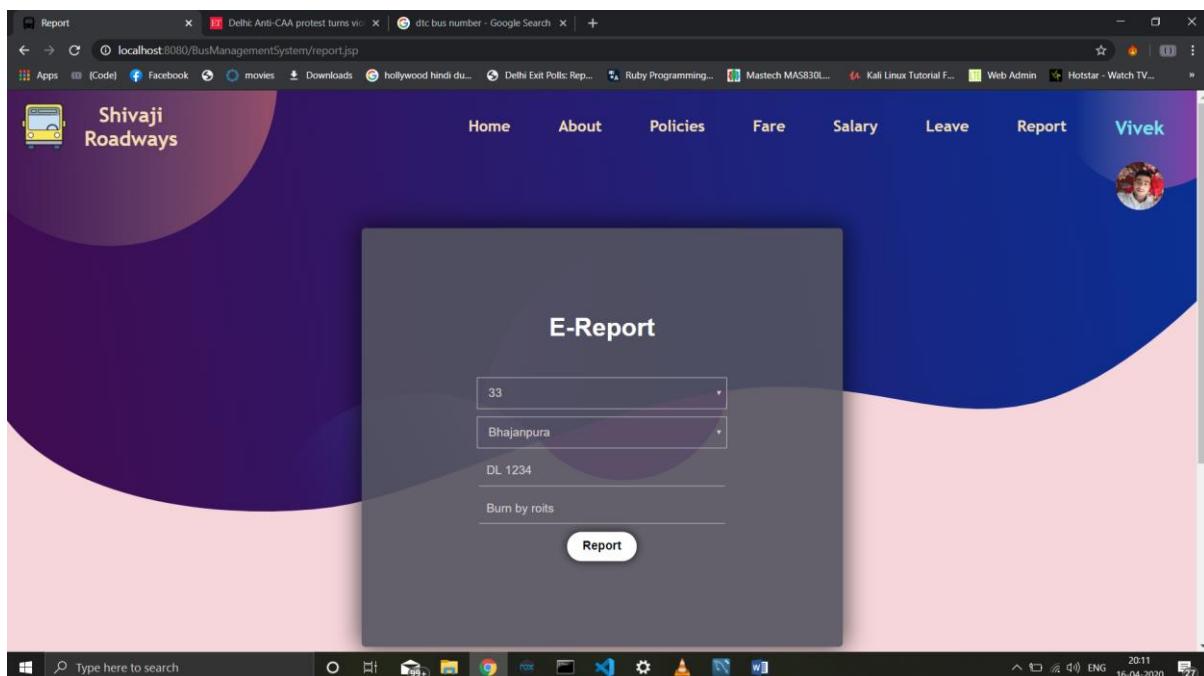
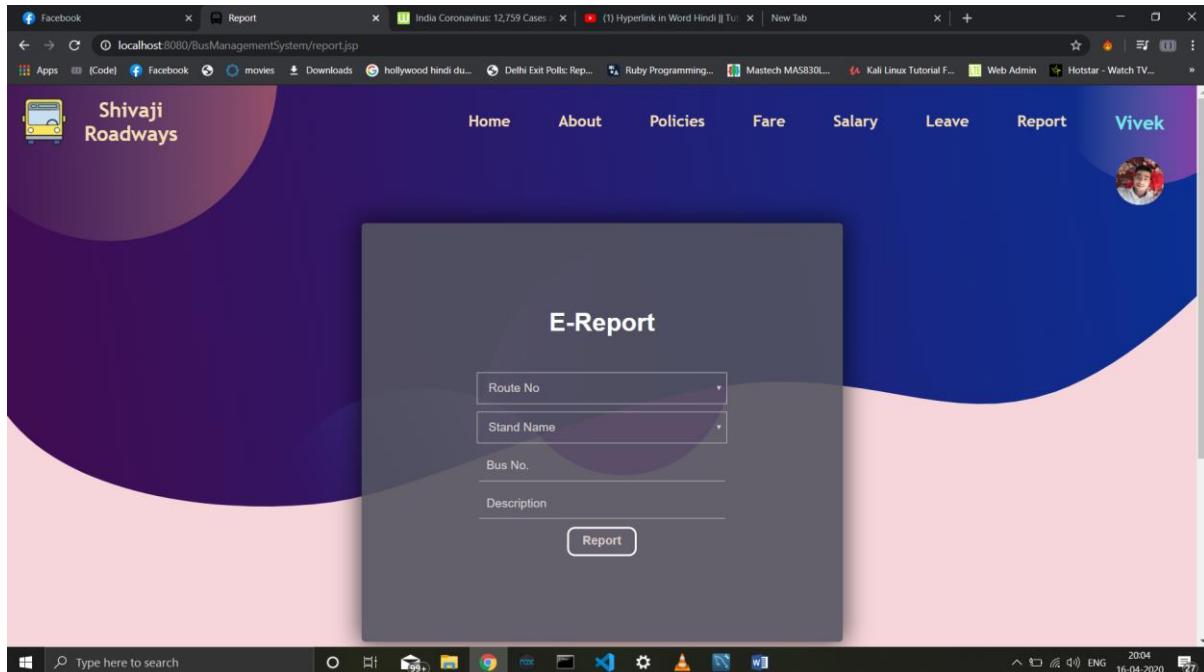
```

```
    else if(status == "approved")
        result.style.color = "rgb(90, 218, 90)";
    else
        result.style.color = "white";
    result.innerText = status;
}
xmlhttp.send();
return false;
}
</script>
</html>
```

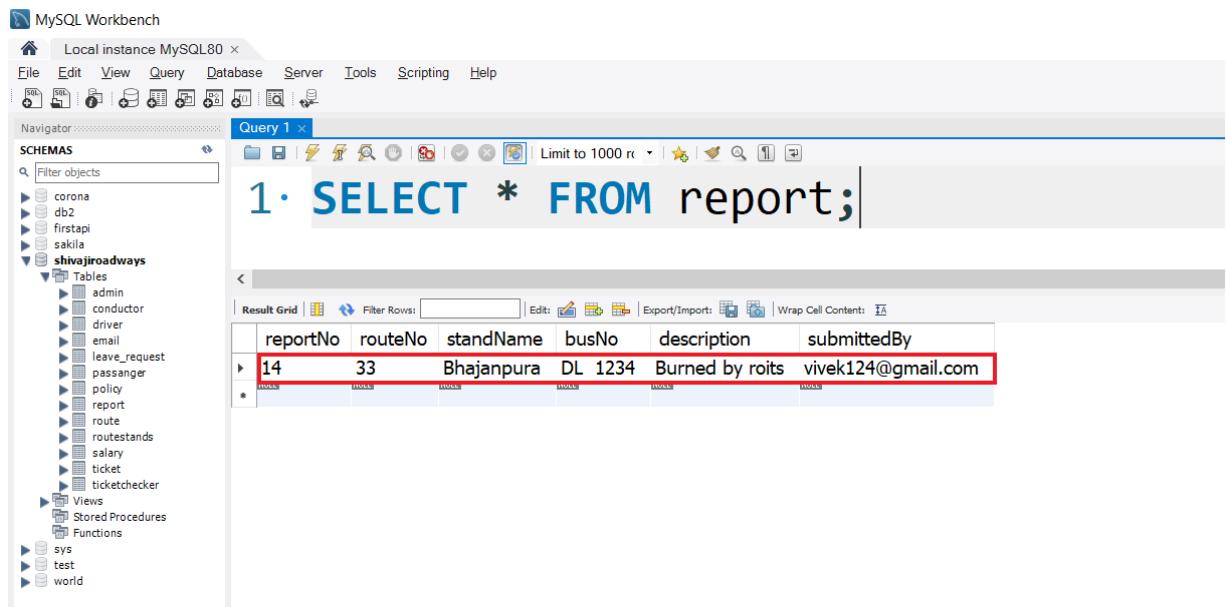
report.jsp

E-report module is for reporting online is the cases of bus needs to be repaired or and violence in the bus or something else.

Output



Entry into database



The screenshot shows the MySQL Workbench interface. In the top navigation bar, 'Local instance MySQL80' is selected. The 'Query 1' tab contains the SQL query: '1. SELECT * FROM report;'. The results grid displays a single row of data from the 'report' table:

reportNo	routeNo	standName	busNo	description	submittedBy
14	33	Bhajanpura	DL 1234	Burned by roits	vivek124@gmail.com

The entire row is highlighted with a red border.

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/leave.css">
    <link rel="icon" href="images/icon.png">
    <title>Report</title>
</head>
<body>
    <%
        if(session.getAttribute("email") == null)
        {
            response.sendRedirect("authentication.jsp");
        }
        else if(session.getAttribute("role").equals("admin"))
        {
            response.sendRedirect("authentication.jsp");
        }
        else if(session.getAttribute("role").equals("passanger"))
        {
            response.sendRedirect("authentication.jsp");
        }
    %>
<%@page import="java.sql.*"%>
<%
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
```

```

        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
        st = con.createStatement();
        String query = "select routeNo from route order by serialNo";
        rs = st.executeQuery(query);
    }
    catch(Exception e)
    {
        out.print(e.getMessage());
    }
%>
<jsp:include page="navigationPannel.jsp"></jsp:include>

<jsp:include page="svg.jsp"></jsp:include>
<div class="container">
    <div class="workspace">
        <form onsubmit="return submitReport();">
            <h1>E-Report</h1>
            <select name="routeNo" onchange="updateStands(this.value);">
                <option value="" disabled selected >Route No</option>
                <%
                    while(rs.next())
                %>
                <option><%=rs.getString("routeNo")%></option>
            <%
                %>
            </select>
            <select name="standName">
                <option value="" disabled selected >Stand Name</option>
                <option>Ashoke Nagar</option>
                <option>Nand Nagri</option>
                <option>Seema Puri</option>
                <option>GTB Nagar</option>
            </select>

            <input type="text" name="busNo" placeholder="Bus No.">
            <input type="text" name="description" placeholder="Description">
            <input type="submit" id="submitButton" value="Report">
        </form>
    </div>
</div>

<jsp:include page="footer.jsp"></jsp:include>
</body>
<script src="scripts/navPannel.js"></script>
<script>
    function submitReport()
    {
        var routeNo = document.getElementsByName("routeNo")[0].value;
        var standName = document.getElementsByName("standName")[0].value;
        var busNo = document.getElementsByName("busNo")[0].value;
        var description = document.getElementsByName("description")[0].value;

        var param = "?routeNo=" + routeNo + "&standName=" + standName + "&busNo=" + busNo + "&descript
ion=" + description;
        param = param.replace("+", "%2b")
        param = param.replace("(", "%28")
        param = param.replace(")", "%29")

        var xmlhttp = new XMLHttpRequest();
        xmlhttp.open("POST", "submitReport.jsp" + param, false);

        xmlhttp.onreadystatechange = function(){
            var submitButton = document.getElementById("submitButton")
            submitButton.value = xmlhttp.responseText.trim();
        }
        xmlhttp.send();

        return false;
    }
    function updateStands(routeNo)
    {

```

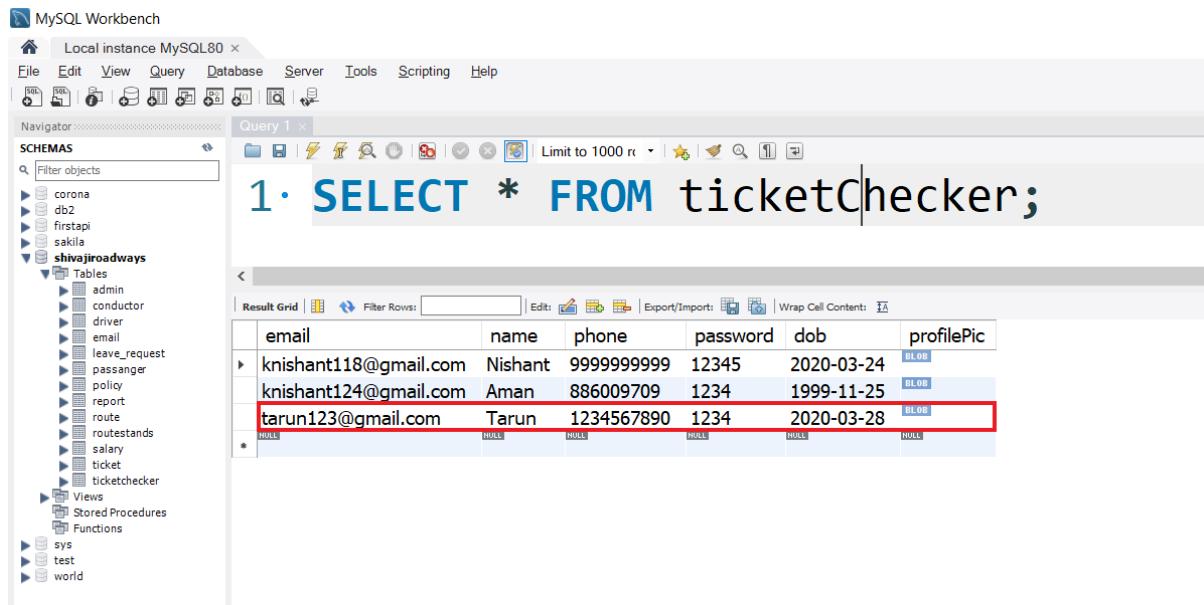
```
var standName = document.getElementsByName('standName')[0];
var param = "?routeNo=" + routeNo;
param = param.replace("+", "%2b")

var xmlhttp = new XMLHttpRequest();
xmlhttp.open("POST", "ticketAJAX.jsp" + param, false);

xmlhttp.onreadystatechange = function(){
    standName.innerHTML = xmlhttp.responseText;
}
xmlhttp.send();
}

</script>
</html>
```

Signing In with TC's account



The screenshot shows the MySQL Workbench interface. On the left, the Navigator pane displays the database schema for 'shivaJiroadways'. Under the 'Tables' section, the 'ticketchecker' table is selected. The main area shows a query results grid for the following SQL statement:

```
1· SELECT * FROM ticketChecker;
```

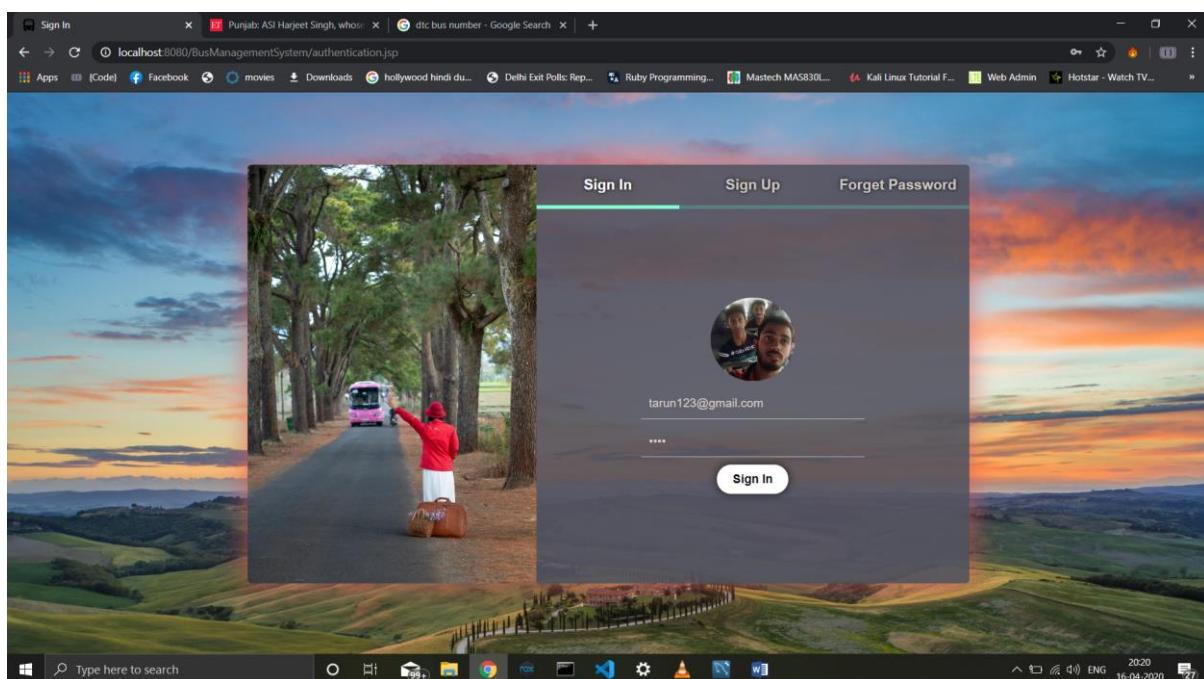
The result grid contains three rows of data:

email	name	phone	password	dob	profilePic
knishant118@gmail.com	Nishant	9999999999	12345	2020-03-24	BLOB
knishant124@gmail.com	Aman	886009709	1234	1999-11-25	BLOB
tarun123@gmail.com	Tarun	1234567890	1234	2020-03-28	BLOB

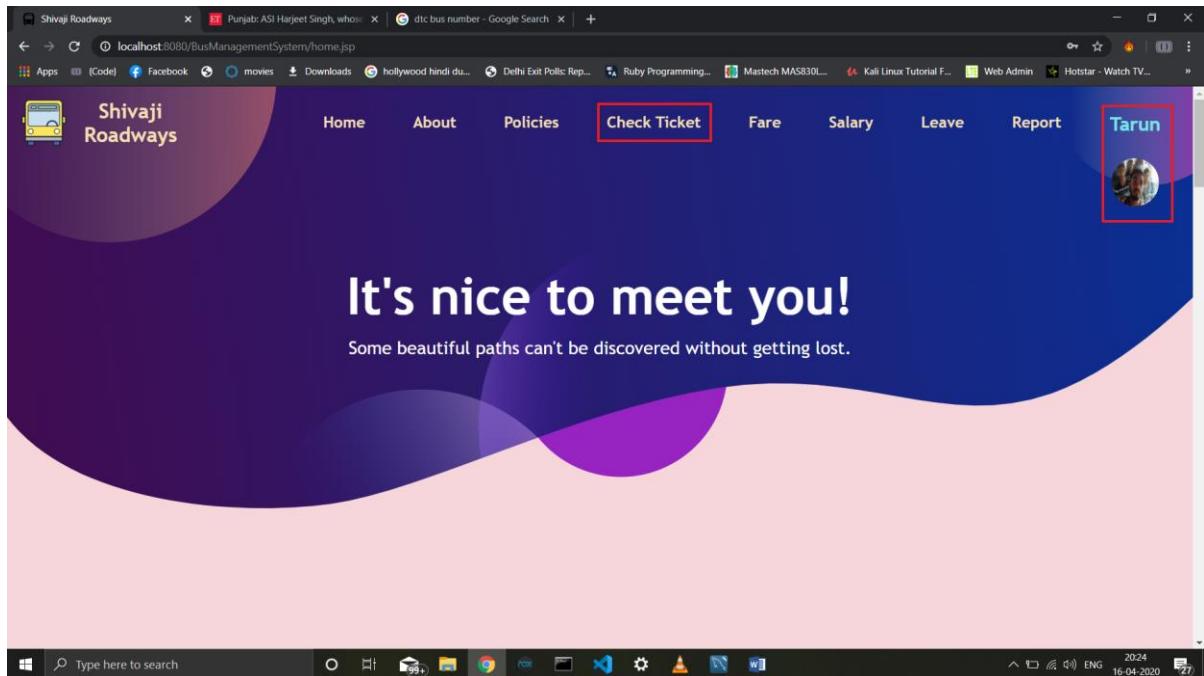
Role: Ticket Checker

Credentials:

- Email: tarun123@gmail.com
- Password: 1234



Signed In



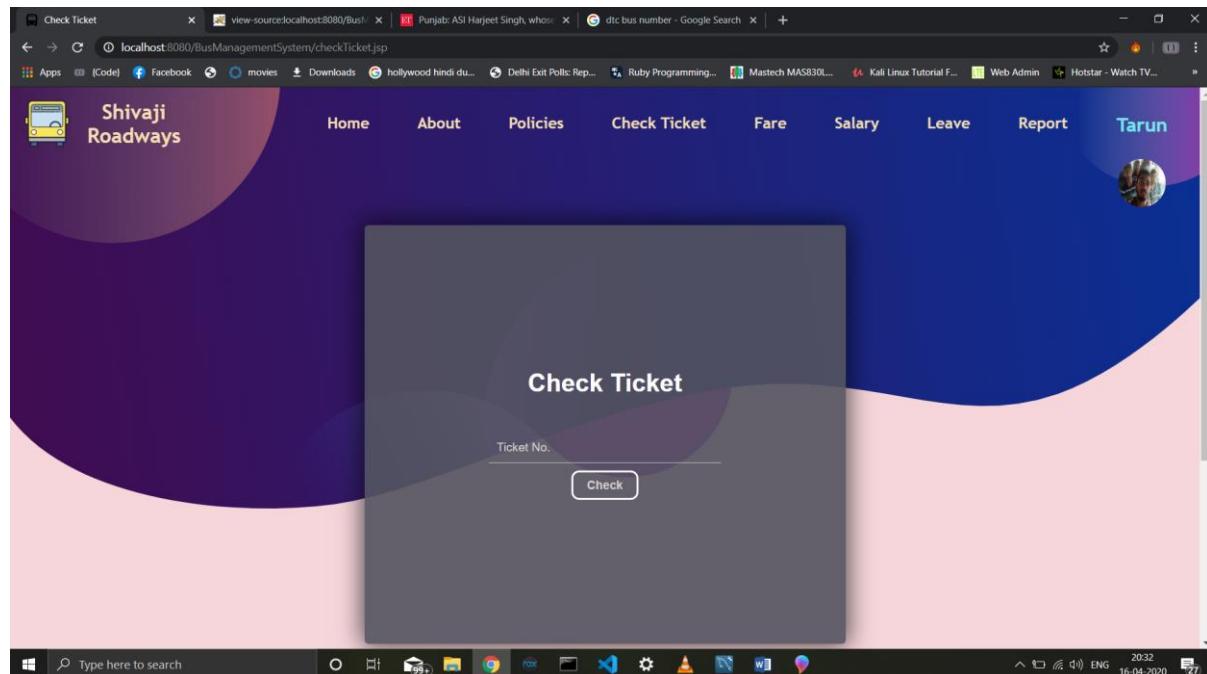
We have a new link **Check Ticket** in our navigation panel

This module is Ticket Checker specific so that no one other than TC have access to this page.

checkTicket.jsp

This module is for validating tickets digitally this process is faster and much accurate than manual ticket checking.

Output



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- corona
- db2
- firstrapi
- sakila
- shivajiroadways
- admin
- conductor
- driver
- email
- leave_request
- passenger
- policy
- report
- route
- routestands
- salary
- ticket
- ticketchecker

Tables

Views

Stored Procedures

Functions

sys

test

world

Query 1

1. SELECT * FROM ticketOutput;

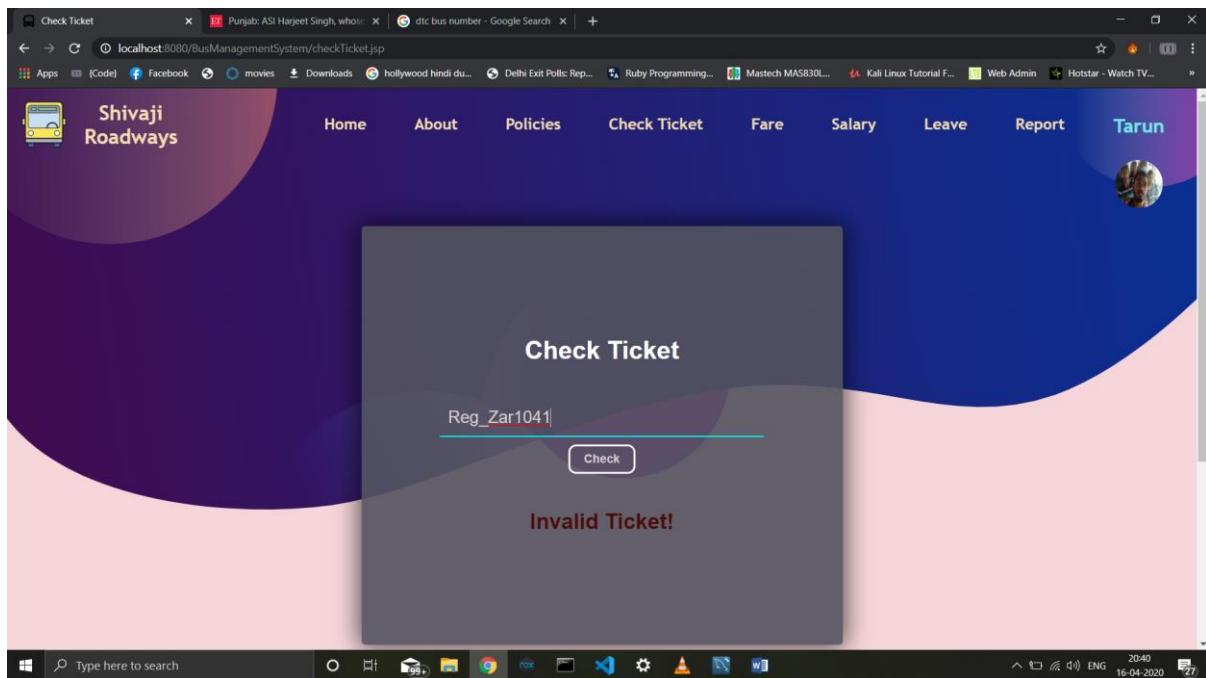
bookingDate	ticketNo	routeNo	source	destination	type	email	noOfPassa
03/15/2020 11:43:58	Mod_See1032	971	Model Town II	Seema Puri	ORD	jaat39157@gmail.com	1
03/15/2020 11:44:23	Ana_Roh1033	971	Anand Vihar ISBT (Viveka ...	Rohini Sector 6	AC	jaat39157@gmail.com	1
03/15/2020 11:44:57	Ana_See1034	971	Anand Vihar ISBT (Viveka ...	Seema Puri	ORD	jaat39157@gmail.com	1
03/15/2020 12:32:24	Bha_Ash1035	971	Bhajanpura	Ashok Vihar X-ing	AC	himanshu32301@gmail...	2
03/15/2020 12:34:39	Mod_Bha1036	971	Model Town II	Bhajanpura	ORD	himanshu32301@gmail...	1
03/16/2020 19:07:20	Nan_Ana1037	33	Nand Nagri Terminal	Anand Vihar ISBT (Viveka ...	ORD	knishant114@gmail.com	1
03/18/2020 00:28:27	Del_Nir1038	7	Delhi Gate	Nirankari Colony	ORD	knishant114@gmail.com	1
03/19/2020 11:13:10	Reg_Ken1039	RL79	Regal	Kendriya Terminal	ORD	knishant114@gmail.com	1
03/20/2020 23:54:56	Ram_Old1040	17	Ramjanpur Village	Old Delhi Railway Station	AC	knishant114@gmail.com	13
03/21/2020 16:00:09	Reg_Zak1041	GL90	Regal	Zakhira	ORD	freelancerkulsum@gm...	1
04/16/2020 14:26:18	Man_Ash1042	971	Mandoli X-ing	Ashok Vihar X-ing	AC	himanshu32301@gmail...	2

We are going to take these 2 as tests:

Test 1: ticketNo → **Reg_Zar1041**

Test 2: ticketNo → **Man_Ash1042**

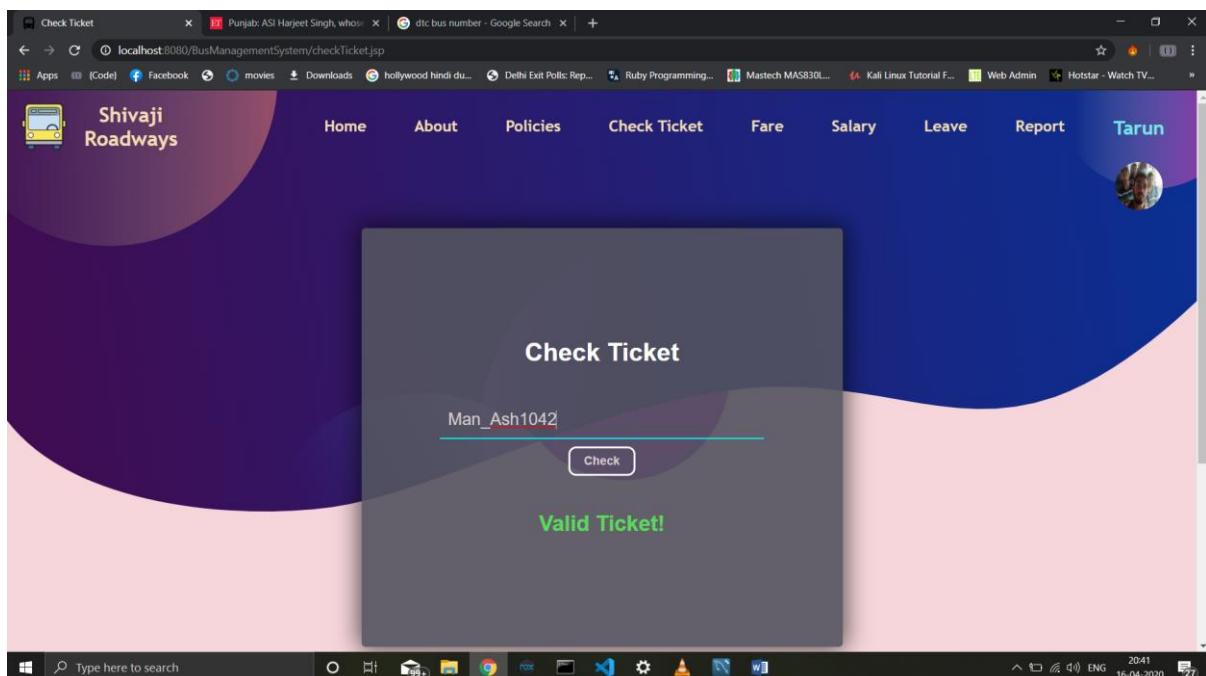
Output of test 1: **Reg_Zar1041**



Invalid Ticket!

Because this ticket have already expired

Output of test 2: Man_Ash1042



Valid Ticket!

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/leave.css">
    <link rel="icon" href="images/icon.png">
    <title>Check Ticket</title>
</head>
<body>
    <%
        if(session.getAttribute("email") == null || !session.getAttribute("role").equals("ticketchecker"))
        { response.sendRedirect("authentication.jsp"); }%
    <jsp:include page="navigationPannel.jsp"/></jsp:include>
    <jsp:include page="svg.jsp"/></jsp:include>
    <div class="container">
        <div class="workspace">
            <form onsubmit="return checkTicket();">
                <h1>Check Ticket</h1>
                <input type="text" id="ticketNo" name="ticketNo" style="width: 18vw;" placeholder="Ticket No.">
                <input type="submit" value="Check">
                <h1 id="result"></h1>
            </form>
        </div>
        <jsp:include page="footer.jsp"/></jsp:include>
    </body>
    <script src="scripts/navPannel.js"/></script>
    <script>

        function checkTicket()
        {
            var ticketNo = document.getElementById("ticketNo").value;
            ticketNo = ticketNo.slice(7, ticketNo.length)
            console.log(ticketNo);
            if(parseInt(param))
            {
                document.getElementById("result").innerText = "invalid"
                return false;
            }
            var param = "?ticketNo=" + ticketNo;
            param = encodeURI(param);
            console.log(param);
            var xmlhttp = new XMLHttpRequest();
            xmlhttp.open("POST", "checkTicketAJAX.jsp" + param, false);

            xmlhttp.onreadystatechange = function(){
                var result = document.getElementById("result");
                var status = xmlhttp.responseText.trim()
                if(status < 0 || status > 23)
                {
                    result.style.color = "rgb(78, 12, 12)";
                    result.innerText = "Invalid Ticket!";
                }
                else
                {
                    result.style.color = "rgb(90, 218, 90)";
                    result.innerText = "Valid Ticket!";
                }
                setInterval(function(){ location.reload(); }, 2000);
            }
            xmlhttp.send();
            return false;
        }
    </script></html>
```

Signing In with Admin's account

The screenshot shows the MySQL Workbench interface with a query window containing the following SQL command:

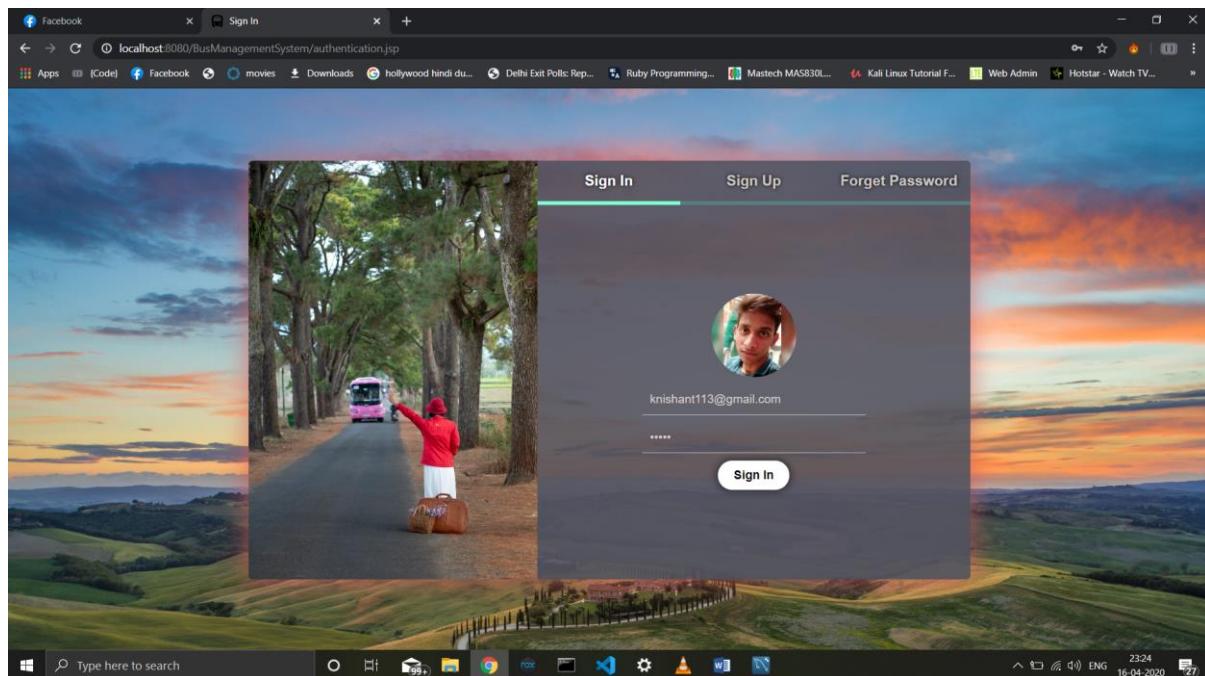
```
1· SELECT * FROM admin;
```

The results grid displays the following data:

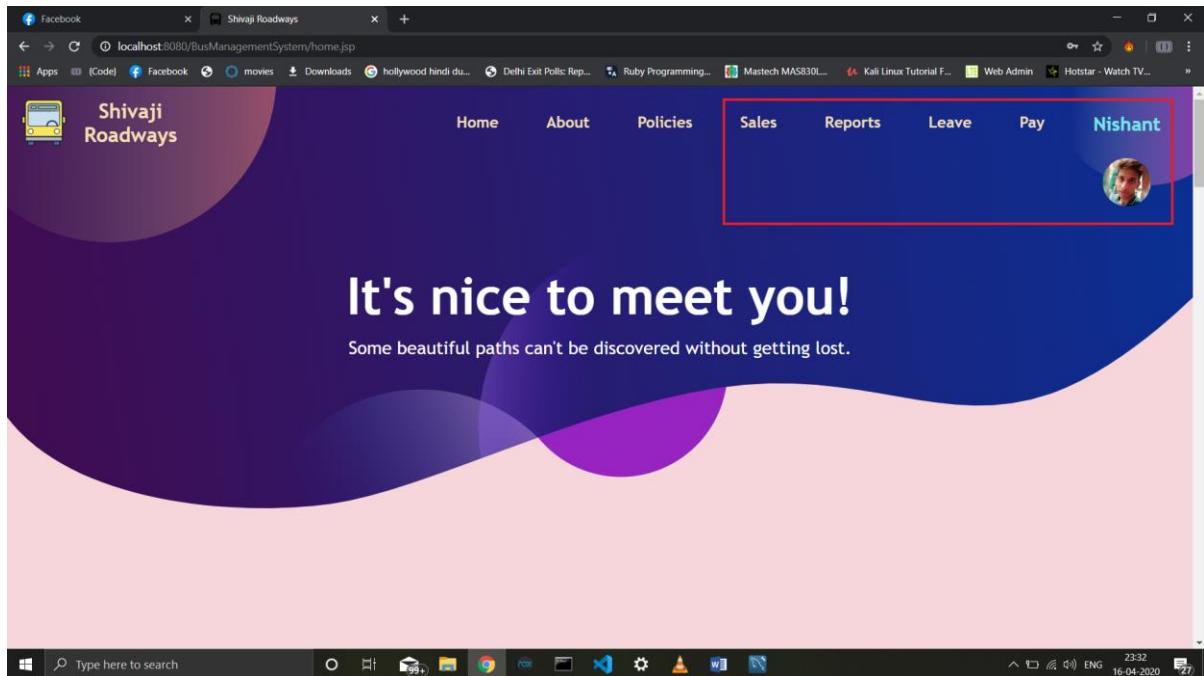
email	name	phone	password	profilePic
aarti@bharti.com	Aarti	1234567890	1234	BLOB
aarti2@bharti.com	Aarti2	1234567890	1234	BLOB
aktonrocks@gmail.com	Akash Tonk	9999999900	12345678	BLOB
implesivetonk@gmail.com	akash	8920300782	bhaihai	BLOB
knishant113@gmail.com	Nishant	8860009709	12345	BLOB
knishant120@gmail.com	Raju	9898989898	123456789	BLOB
knishant121@gmail.com	Raju2	9999999999	9999999999	BLOB
knishant123@gmail.com	Nishant	8888888888	1234	BLOB
ram@gmail.com	ram babu	1231231231	1234	BLOB
shivam@gmail.com	Shivam Rathore	0989098909	1234	BLOB
		HOLE	HOLE	HOLE

Role: Admin
Credentials:

- **Email:** knishant113@gmail.com
- **Password:** 12345



Signed In



We have some new links in our navigation panel

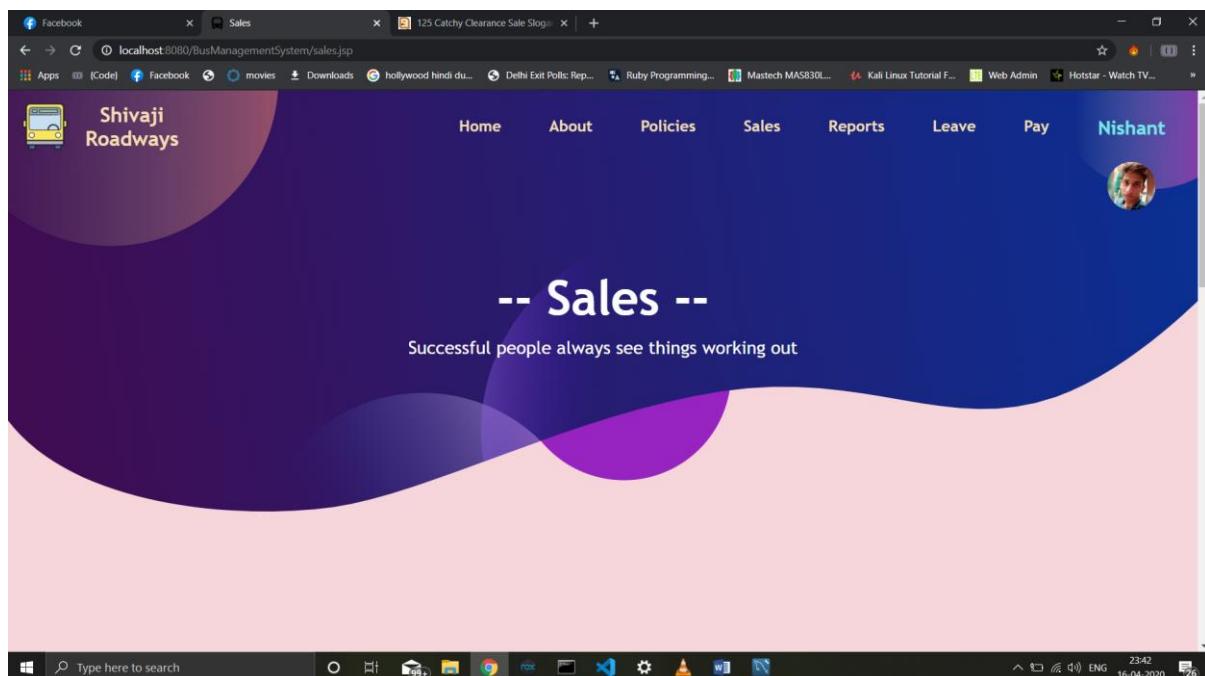
- Sales
- Reports
- Leave
- Pay

Let's explore them one by one

sales.jsp

This page is for giving soled ticket summary to Admin.

Output



Soled ticket data in database

bookingDate	ticketNo	routeNo	source	destination	type	email	noOfPassangers	fare	feedback
03/14/2020 12:00:28	Ken_Reg1022	GL90	Kendriya Terminal	Regal	ORD	knishant114@gmail.com	1	5	WELL
03/14/2020 12:05:12	ISB_Ana1023	GL23	ISBT / Kashmiri Gate	Anand Vihar ISBT (Viveka Nand ISBT)	ORD	knishant114@gmail.com	1	15	WELL
03/14/2020 12:09:25	Jag_Ana1024	GL23	Jagat Puri A-Block	Anand Vihar ISBT (Viveka Nand ISBT)	ORD	knishant114@gmail.com	1	5	WELL
03/14/2020 12:10:09	Shy_See1025	GL23	Shyam Giri Mandir	Seelam Pur	ORD	knishant114@gmail.com	1	5	WELL
03/14/2020 12:10:22	Ana_Jag1026	GL23	Anand Vihar ISBT (Viveka Nand ...	Jagat Puri A-Block	ORD	knishant114@gmail.com	1	5	WELL
03/14/2020 12:11:16	Ana_Jag1027	GL23	Anand Vihar ISBT (Viveka Nand ...	Jagat Puri A-Block	ORD	knishant114@gmail.com	1	5	WELL
03/14/2020 12:12:33	Neh_Mah1028	TMSLajpat...	Nehru Nagar	Maharani Bagh	ORD	knishant114@gmail.com	1	5	WELL
03/14/2020 13:11:52	Man_Ash1029	971	Mandoli X-ing	Ashok Vihar X-ing	AC	knishant114@gmail.com	1	25	WELL
03/14/2020 15:08:44	New_Ana1030	GL22	New Delhi Railway Station Gate 2	Anand Vihar ISBT (Viveka Nand ISBT)	AC	freelancerkulsum@gmail...	1	20	WELL
03/14/2020 15:09:00	New_Has1031	GL22	New Delhi Railway Station Gate 2	Hasan Pur Depot (Patparganj) Depot	ORD	freelancerkulsum@gmail...	1	10	namo
03/15/2020 11:43:50	Mod_See1032	971	Model Town II	Seema Puri	ORD	jaat39157@gmail.com	1	15	WELL
03/15/2020 11:44:23	Ana_Roh1033	971	Anand Vihar ISBT (Viveka Nand ...	Rohini Sector 6	AC	jaat39157@gmail.com	1	25	The management is quite c
03/15/2020 11:44:57	Ana_See1034	971	Anand Vihar ISBT (Viveka Nand ...	Seema Puri	ORD	jaat39157@gmail.com	1	5	WELL
03/15/2020 12:32:24	Bha_Ash1035	971	Bhajanpura	Ashok Vihar X-ing	AC	himanshu32301@gmail...	2	40	Bus timing was awesome b
03/15/2020 12:34:36	Mod_Bha1036	971	Model Town II	Bhajanpura	ORD	himanshu32301@gmail...	1	10	WELL
03/16/2020 19:07:20	Nan_Ana1037	33	Nand Nagri Terminal	Anand Vihar ISBT (Viveka Nand ISBT)	ORD	knishant114@gmail.com	1	10	WELL
03/18/2020 00:28:27	Del_Nir1038	7	Delhi Gate	Nirankari Colony	ORD	knishant114@gmail.com	1	15	WELL
03/19/2020 11:13:10	Req_Ken1039	RL79	Regal	Kendriya Terminal	ORD	knishant114@gmail.com	1	5	WELL
03/20/2020 23:54:56	Ram_Old1040	17	Ramjanpur Village	Old Delhi Railway Station	AC	knishant114@gmail.com	13	325	Thank you
03/21/2020 16:00:09	Req_Zak1041	GL90	Regal	Zakhira	ORD	freelancerkulsum@gmail...	1	10	Very good experience in bi
04/16/2020 14:26:18	Man_Ash1042	971	Mandoli X-ing	Ashok Vihar X-ing	AC	himanshu32301@gmail...	2	50	WELL

Data retrieval from the database

Soleded Tickets Summary

Ticket No	Route No	Source	Destination	Type	Email	No of Passangers	Fare
Man_Ash1042	971	Mandoli X-ing	Ashok Vihar X-ing	AC	himanshu32301@gmail.com	2	50
Reg_Zak1041	GL90	Regal	Zakhira	ORD	freelancerkulsum@gmail.com	1	10
Ram_Old1040	17	Ramjanpur Village	Old Delhi Railway Station	AC	knishant114@gmail.com	13	325
Reg_Ken1039	RL79	Regal	Kendriya Terminal	ORD	knishant114@gmail.com	1	5
De_Nir1038	7	Delhi Gate	Nirankari Colony	ORD	knishant114@gmail.com	1	15
Nan_Ana1037	33	Nand Nagri Terminal	Anand Vihar ISBT (Viveka Nand ISBT)	ORD	knishant114@gmail.com	1	10
Mod_Bha1036	971	Model Town II	Bhajanpura	ORD	himanshu32301@gmail.com	1	10
Bha_Ash1035	971	Bhajanpura	Ashok Vihar X-ing	AC	himanshu32301@gmail.com	2	40
Ana_See1034	971	Anand Vihar ISBT (Viveka Nand ISBT)	Seema Puri	ORD	jaat39157@gmail.com	1	5
Ana_Roh1033	971	Anand Vihar ISBT (Viveka Nand ISBT)	Rohini Sector 6	AC	jaat39157@gmail.com	1	25
Mod_See1032	971	Model Town II	Seema Puri	ORD	jaat39157@gmail.com	1	15
New_Has1031	GL22	New Delhi Railway Station Gate 2	Hasan Pur Depot (Patparganj Depot)	ORD	freelancerkulsum@gmail.com	1	10

Soleded Tickets Summary

Ticket No	Route No	Source	Destination	Type	Email	No of Passangers	Fare
Man_Mar1020	TM8Lapping	Netaji Nagar	Maharani Bagh	ORD	knishant114@gmail.com	1	5
Ana_Jag1027	GL23	Anand Vihar ISBT (Viveka Nand ISBT)	Jagat Puri A-Block	ORD	knishant114@gmail.com	1	5
Ana_Jag1026	GL23	Anand Vihar ISBT (Viveka Nand ISBT)	Jagat Puri A-Block	ORD	knishant114@gmail.com	1	5
Shy_See1025	GL23	Shyam Giri Mandir	Seelam Pur	ORD	knishant114@gmail.com	1	5
Jag_Ana1024	GL23	Jagat Puri A-Block	Anand Vihar ISBT (Viveka Nand ISBT)	ORD	knishant114@gmail.com	1	5
ISB_Ana1023	GL23	ISBT / Kashmiri Gate	Anand Vihar ISBT (Viveka Nand ISBT)	ORD	knishant114@gmail.com	1	15
Ken_Reg1022	GL90	Kendriya Terminal	Regal	ORD	knishant114@gmail.com	1	5
ISB_Ana1021	GL23	ISBT / Kashmiri Gate	Anand Vihar ISBT (Viveka Nand ISBT)	ORD	knishant114@gmail.com	1	15
Han_Jag1020	GL23Cluster	Hans Apartment	Jagatpuri F-Block	ORD	knishant114@gmail.com	1	10
Kri_Jha1019	GL23Cluster	Krishna Nagar A Block	Jharkhandi	ORD	knishant114@gmail.com	1	10
ISB_Ana1007	GL23	ISBT / Kashmiri Gate	Anand Vihar ISBT (Viveka Nand ISBT)	ORD	knishant114@gmail.com	1	15
New_Man1003	RL77	New Delhi Railway Station Gate 2	Mangla Puri Terminal	ORD	knishant114@gmail.com	1	15
Sha_Dwa1002	RL77 Extn.	Shastri Bazar	Dwarka Sector 6-10 X-ing	ORD	knishant114@gmail.com	1	15
Man_Ash1001	971	Mandoli X-ing	Ashok Vihar X-ing	ORD	knishant114@gmail.com	1	15

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/policies.css">
    <link rel="icon" href="images/icon.png">
    <style>
        .policy
        {
            width: 95%;

        }
        .policy table
        {
            width: 100%;
        }
        .policy table tr
        {
            text-align: left;
        }
    </style>
    <title>Sales</title>

</head>
<body>
<%
    if(session.getAttribute("email") == null || !session.getAttribute("role").equals("admin"))
    {
        response.sendRedirect("authentication.jsp");
    }
%>
<%@page import="java.sql.*"%>

<jsp:include page="navigationPannel.jsp"></jsp:include>
<div class="container">
    <jsp:include page="svg.jsp"></jsp:include>
    <div class="innerContainer">
        <h1>-- Sales --</h1>
        <p>Successful people always see things working out</p>
    </div>
    <div class="policy">
        <h1>Soleded Tickets Summary</h1>
        <table>
            <tr>
                <th>Ticket No</th>
                <th>Route No</th>
                <th>Source</th>
                <th>Destination</th>
                <th>Type</th>
                <th>Email</th>
                <th>No of Passangers</th>
                <th>Fare</th>
            </tr>
            <%
                Connection con = null;
                Statement st = null;
                ResultSet rs = null;
                try
                {
                    Class.forName("com.mysql.jdbc.Driver");
                    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways
", "root", "1234");
                    st = con.createStatement();
                    String query = "select * from ticketOutput order by bookingDate desc";
                    rs = st.executeQuery(query);
                    while(rs.next())
                }
            </%
        </table>
    </div>
</div>
```

```

{%
    <tr title="<%="rs.getString("bookingDate")%>">
        <td><%=rs.getString("ticketNo")%></td>
        <td><%=rs.getString("routeNo").length() < 11 ? rs.getString("routeNo")
: rs.getString("routeNo").substring(0, 11)%></td>
        <td><%=rs.getString("source")%></td>
        <td><%=rs.getString("destination")%></td>
        <td style='color: <%=rs.getString("type").equals("AC")?"red": "green"%>;'><%=rs.getString("type")%></td>
        <td><%=rs.getString("email")%></td>
        <td><%=rs.getString("noOfPassangers")%></td>
        <td><%=rs.getString("fare")%></td>
    </tr>
}
}
catch(Exception e){out.print(e.getMessage());}
%>
</table>
</div>
</div>
<jsp:include page="footer.jsp"></jsp:include>
</body>
<script src="scripts/navPannel.js"></script>
</html>

```

reports.jsp

A report is a document that presents information in an organized format for a specific purpose.

Output

-- Reports --

A mistake you see but do nothing to fix,
becomes your mistake too.

Report No	Route No	Bus No	Stand Name	Submitted By	Description
14	33	DL 1234	Bhajanpura	vivek124@gmail.com	Burned by roits

@shivajiroadways.com

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/policies.css">
    <link rel="icon" href="images/icon.png">
    <style>
        .policy
        {
            width: 95%;

        }
        .policy table
        {
            width: 100%;
        }
        .policy table tr
        {
            text-align: left;
        }
    </style>
    <title>Reports</title>

</head>
<body>
<%
if(session.getAttribute("email") == null || !session.getAttribute("role").equals("admin"))
{
    response.sendRedirect("authentication.jsp");
}
%>
<%@page import="java.sql.*"%>

<jsp:include page="navigationPannel.jsp"></jsp:include>
<div class="container">
    <jsp:include page="svg.jsp"></jsp:include>
    <div class="innerContainer">
        <h1>-- Reports --</h1>
        <p>A mistake you see but do nothing to fix,<br>becomes your mistake too.</p>
    </div>
    <div class="policy">
        <h1>Latest Reports</h1>
        <table>
            <tr>
                <th>Report No</th>
                <th>Route No</th>
                <th>Bus No</th>
                <th>Stand Name</th>
                <th>Submitted By</th>
                <th>Description</th>
            </tr>
        <%
            Connection con = null;
            Statement st = null;
            ResultSet rs = null;
            try
            {
                Class.forName("com.mysql.jdbc.Driver");
                con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways
", "root", "1234");
                st = con.createStatement();
                String query = "select * from report order by reportNo desc";
                rs = st.executeQuery(query);
                while(rs.next())
                {%>
                    <tr>

```

```
<td><%=rs.getInt("reportNo")%></td>
<td><%=rs.getString("routeNo")%></td>
<td><%=rs.getString("busNo")%></td>
<td><%=rs.getString("standName")%></td>
<td><%=rs.getString("submittedBy")%></td>
<td><%=rs.getString("description")%></td>
    </tr>
<%}
}
catch(Exception e){out.print(e.getMessage());}
%>
</table>
</div>
</div>
<jsp:include page="footer.jsp"></jsp:include>
</body>
<script src="scripts/navPannel.js"></script>
</html>
```

leaveRequest.jsp

In this module admin will review is that rightful to allow for leave for a particular staff for a specific purpose

Output

The screenshot shows a web application titled "Leave Requests" for "Shivaji Roadways". The main heading is "-- Leave Requests --" with a subtext "We understand problems of our people That's why most applications approved". Below this, there is a section titled "Pending Leave Requests" displaying three rows of data:

Application No	Reason	Type	From	To	Address	Email	Action
1017	Medical Ground	Maternity Leave (ML)	2020-03-17	2020-03-18	seemappuri	knishant118@gmail.com	X ✓
1018	Casual/Incidental	Maternity Leave (ML)	2020-03-22	2020-03-28	fadsfa	knishant118@gmail.com	X ✓
1019	For Study	Casual Leave (CL)	2020-04-17	2020-04-26	Banglore, India	vivek124@gmail.com	X ✓

At the bottom, there is a footer with the text "©shivajiroadways.com" and social media icons for Twitter, Facebook, and Instagram.

We have 3 pending requests

The screenshot shows the MySQL Workbench interface with a query window titled "Query 1". The query is:

```
1. LECT * FROM leave_request;
```

The result grid displays the following data:

applicationNo	reason	type	date_from	date_to	address	status	email
1012	Hospitalization	Casual Leave (CL)	2020-03-16	2020-03-27	Bhajanpura	declined	knishant118@gmail.com
1013	Recovery After Hospital...	Half Pay Leave (HPL)	2020-03-16	2020-03-27	Bhajanpura	approved	knishant118@gmail.com
1014	Election Duty	Leave Without Pay (LWP)	2020-03-16	2020-03-27	Bhajanpura	approved	knishant118@gmail.com
1015	Casual/Incidental	Casual Leave (CL)	2020-03-17	2020-03-19	Bhajanpura	declined	knishant118@gmail.com
1016	Hospitalization	Casual Leave (CL)	2020-03-17	2020-03-28	Bhajanpura	approved	knishant118@gmail.com
1017	Medical Ground	Maternity Leave (ML)	2020-03-17	2020-03-18	seemappuri	pending	knishant118@gmail.com
1018	Casual/Incidental	Maternity Leave (ML)	2020-03-22	2020-03-28	fadsfa	pending	knishant118@gmail.com
1019	For Study	Casual Leave (CL)	2020-04-17	2020-04-26	Banglore, India	pending	vivek124@gmail.com

Let's perform 3 tests on them

Test 1: applicationNo: 1017 → **pending**

Test 2: applicationNo: 1018 → **decline**

Test 3: applicationNo: 1019 → **approved**

Test 2: declining

The screenshot shows a web browser window with the URL localhost:8080/BusManagementSystem/leaveRequests.jsp. The page title is "Leave Requests". The main content area is titled "Pending Leave Requests" and displays the following data:

Application No	Reason	Type	From	To	Address	Email	Action
1017	Medical Ground	Maternity Leave (ML)	2020-03-17	2020-03-18	seemappuri	knishant118@gmail.com	X ✓
1018	Casual/Incidental	Maternity Leave (ML)	2020-03-22	2020-03-28	fadsfa	knishant118@gmail.com	X ✓
1019	For Study	Casual Leave (CL)	2020-04-17	2020-04-26	Banglore, India	vivek124@gmail.com	X ✓

At the bottom of the page, there is a footer with the text "©shivajiroadways.com" and social media icons for Twitter, Facebook, and Instagram.

Test 3: approving

The screenshot shows a web application titled "Leave Requests" from "localhost:8080/BusManagementSystem/leaveRequests.jsp". The page header includes a logo for "Shivaji Roadways" and a user profile for "Nishant". A navigation bar at the top has buttons for Home, About, Policies, Sales, Reports, Leave, Pay, and a user icon. Below the navigation bar is a section titled "Pending Leave Requests" containing a table with two rows of data. The columns are Application No, Reason, Type, From, To, Address, Email, and Action. The first row has Application No 1017, Reason Medical Ground, Type Maternity Leave (ML), From 2020-03-17, To 2020-03-18, Address seemappuri, Email knishant118@gmail.com, and Action buttons (X and ✓). The second row has Application No 1019, Reason For Study, Type Casual Leave (CL), From 2020-04-17, To 2020-04-26, Address Bangalore, India, Email vivek124@gmail.com, and Action buttons (X and ✓). At the bottom of the page is a footer with social media links for Twitter, Facebook, and Instagram, and a Windows taskbar.

Application No	Reason	Type	From	To	Address	Email	Action
1017	Medical Ground	Maternity Leave (ML)	2020-03-17	2020-03-18	seemappuri	knishant118@gmail.com	X ✓
1019	For Study	Casual Leave (CL)	2020-04-17	2020-04-26	Banglore, India	vivek124@gmail.com	X ✓

Test 1: pending

The screenshot shows a web application titled "Leave Requests" from "localhost:8080/BusManagementSystem/leaveRequests.jsp". The page header includes a logo for "Shivaji Roadways" and a user profile for "Nishant". A navigation bar at the top has buttons for Home, About, Policies, Sales, Reports, Leave, Pay, and a user icon. Below the navigation bar is a section titled "Pending Leave Requests" containing a table with one row of data. The columns are Application No, Reason, Type, From, To, Address, Email, and Action. The single row has Application No 1017, Reason Medical Ground, Type Maternity Leave (ML), From 2020-03-17, To 2020-03-18, Address seemappuri, Email knishant118@gmail.com, and Action buttons (X and ✓). At the bottom of the page is a footer with social media links for Twitter, Facebook, and Instagram, and a Windows taskbar.

Application No	Reason	Type	From	To	Address	Email	Action
1017	Medical Ground	Maternity Leave (ML)	2020-03-17	2020-03-18	seemappuri	knishant118@gmail.com	X ✓

Database Output

The screenshot shows the MySQL Workbench interface with a query editor containing the SQL command:

```
1· LECT * FROM leave_request;
```

The results are displayed in a grid:

applicationNo	reason	type	date_from	date_to	address	status	email
1012	Hospitalization	Casual Leave (CL)	2020-03-16	2020-03-27	Bhajanpura	declined	knishant118@gmail.com
1013	Recovery After Hospitali...	Half Pay Leave (HPL)	2020-03-16	2020-03-27	Bhajanpura	approved	knishant118@gmail.com
1014	Election Duty	Leave Without Pay (LWP)	2020-03-16	2020-03-27	Bhajanpura	approved	knishant118@gmail.com
1015	Casual/Incidental	Casual Leave (CL)	2020-03-17	2020-03-19	Bhajanpura	declined	knishant118@gmail.com
1016	Hospitalization	Casual Leave (CL)	2020-03-17	2020-03-28	Bhajanpura	approved	knishant118@gmail.com
1017	Medical Ground	Maternity Leave (ML)	2020-03-17	2020-03-18	seemappuri	pending	knishant118@gmail.com
1018	Casual/Incidental	Maternity Leave (ML)	2020-03-22	2020-03-28	fadsfa	declined	knishant118@gmail.com
1019	For Study	Casual Leave (CL)	2020-04-17	2020-04-26	Banglore, India	approved	vivek124@gmail.com

Let's cross check with staff side

Test 3: applicationNo: 1019

The screenshot shows a web browser window with the URL `localhost:8080/BusManagementSystem/leave.jsp`. The page displays a "Check Status" form with the application number 1019. The status is shown as "Approved".

Check Status

1019

Approved

©shivajiroadways.com

Database Reflects perfectly fine

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/policies.css">
    <link rel="icon" href="images/icon.png">
    <style>
        .policy
        {
            width: 95%;

        }
        .policy table
        {
            width: 100%;
        }
        .policy table tr
        {
            text-align: left;
        }
    </style>
    <title>Reports</title>

</head>
<body>
<%
if(session.getAttribute("email") == null || !session.getAttribute("role").equals("admin"))
{
    response.sendRedirect("authentication.jsp");
}
%>
<%@page import="java.sql.*"%>

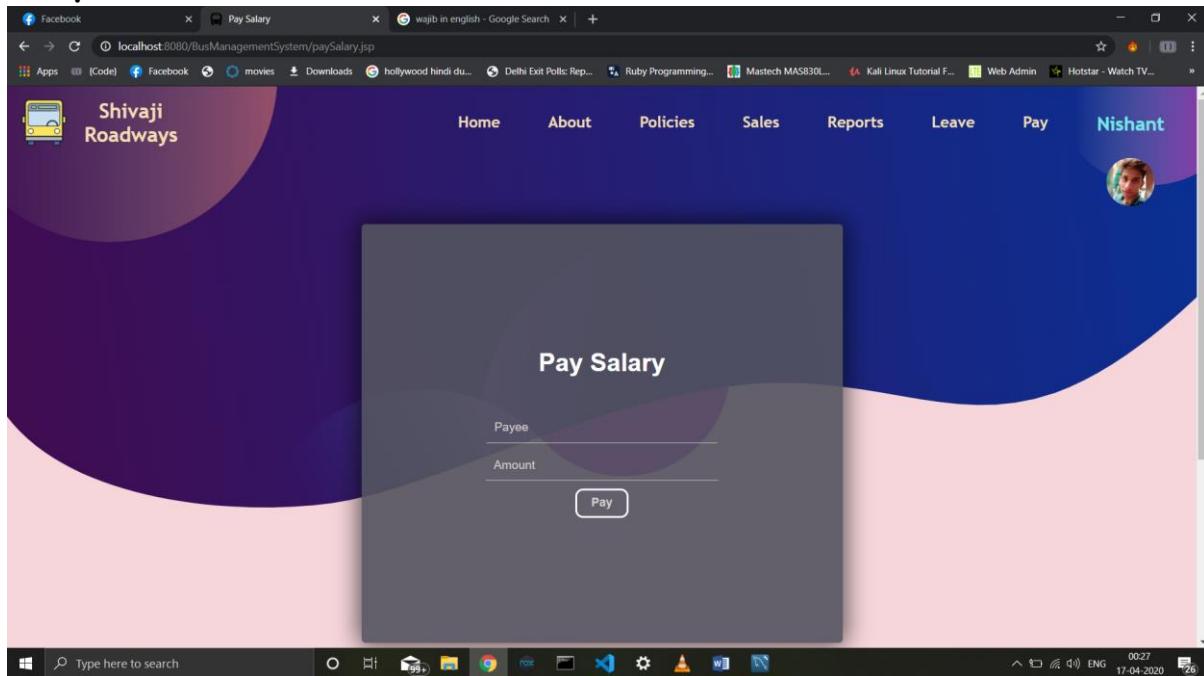
<jsp:include page="navigationPannel.jsp"></jsp:include>
<div class="container">
    <jsp:include page="svg.jsp"></jsp:include>
    <div class="innerContainer">
        <h1>-- Reports --</h1>
        <p>A mistake you see but do nothing to fix,<br>becomes your mistake too.</p>
    </div>
    <div class="policy">
        <h1>Latest Reports</h1>
        <table>
            <tr>
                <th>Report No</th>
                <th>Route No</th>
                <th>Bus No</th>
                <th>Stand Name</th>
                <th>Submitted By</th>
                <th>Description</th>
            </tr>
            <%
            Connection con = null;
            Statement st = null;
            ResultSet rs = null;
            try
            {
                Class.forName("com.mysql.jdbc.Driver");
                con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways
", "root", "1234");
                st = con.createStatement();
                String query = "select * from report order by reportNo desc";
                rs = st.executeQuery(query);
                while(rs.next())
                {%
                    <tr>
```

```
<td><%=rs.getInt("reportNo")%></td>
<td><%=rs.getString("routeNo")%></td>
<td><%=rs.getString("busNo")%></td>
<td><%=rs.getString("standName")%></td>
<td><%=rs.getString("submittedBy")%></td>
<td><%=rs.getString("description")%></td>
    </tr>
<%}
}
catch(Exception e){out.print(e.getMessage());}
%>
</table>
</div>
</div>
<jsp:include page="footer.jsp"></jsp:include>
</body>
<script src="scripts/navPannel.js"></script>
</html>
```

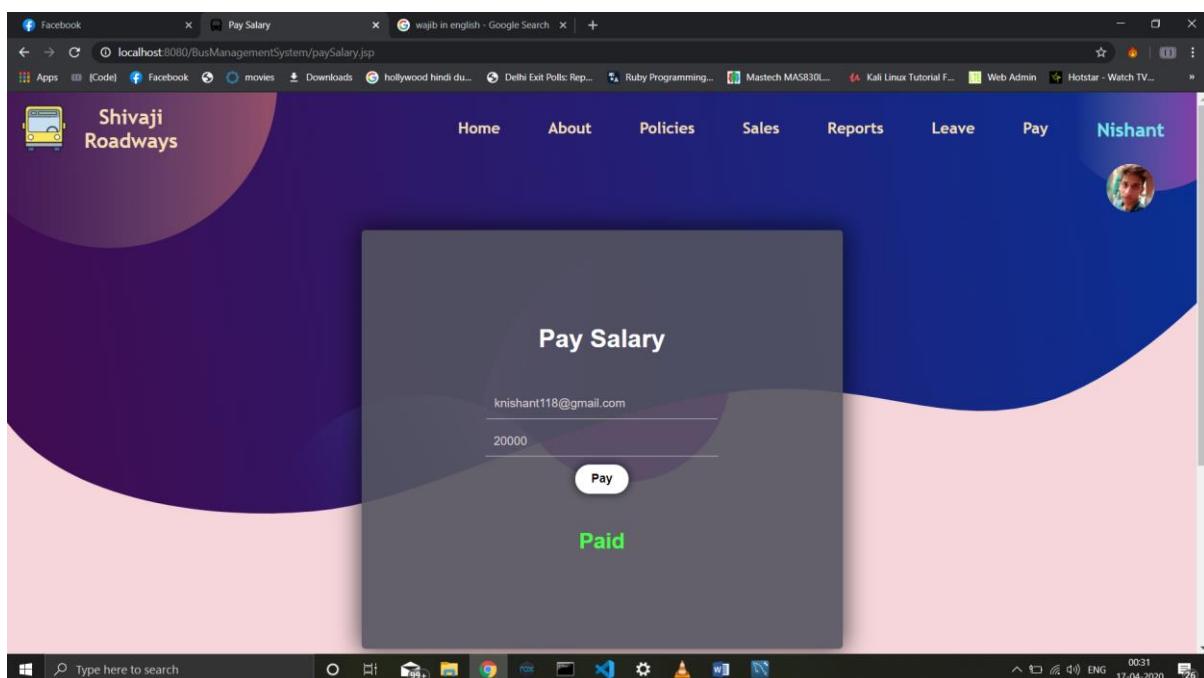
paySalary.jsp

This module is just for giving an illusion of how will the payment module will be work which Is included in future scope of the project.

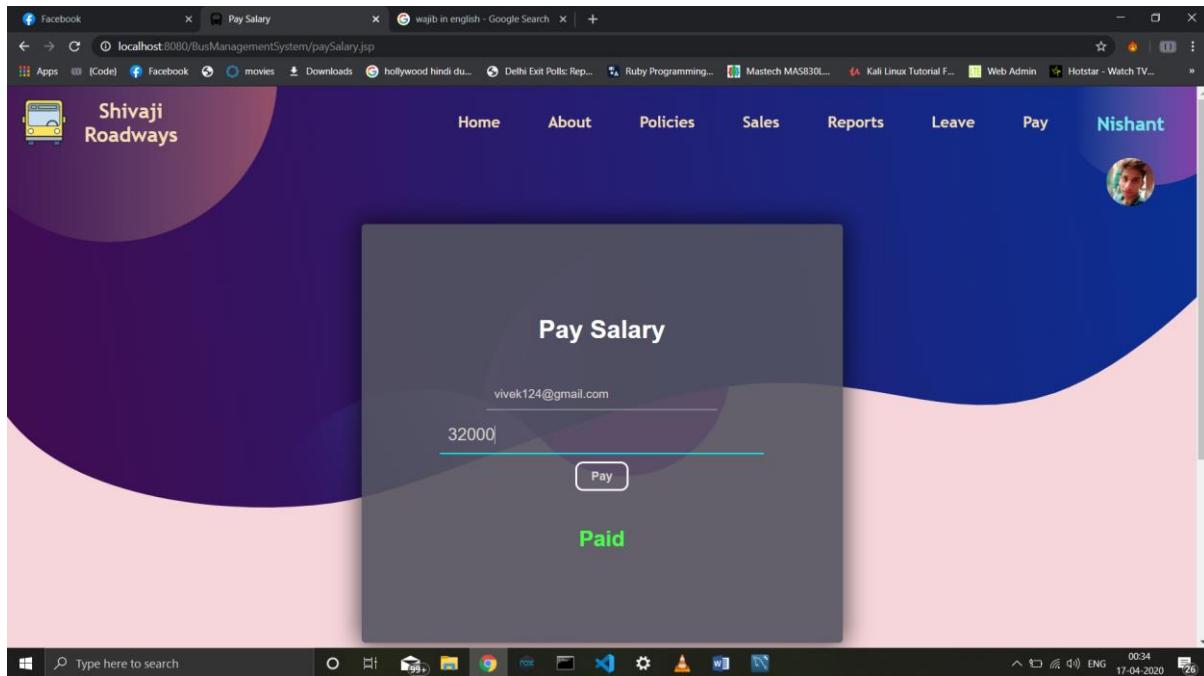
Output



Paying ₹20,500 to knishant118@gmail.com



Paying ₹32,000 to vivek124@gmail.com



Values updated into database

A screenshot of MySQL Workbench showing a query result grid. The query entered is "1. SELECT * FROM salary;". The result grid displays data from the "salary" table. The columns are "transactionNo", "email", "amount", and "date". The rows show various transactions, with the last two rows highlighted in red: "1017 knishant118@gmail.com 20000 2020-04-17 00:31:41" and "1018 vivek124@gmail.com 32000 2020-04-17 00:34:07".

transactionNo	email	amount	date
1009	knishant118@gmail.com	300	2020-03-17 20:57:03
1011	knishant118@gmail.com	600	2020-03-17 21:00:23
1012	knishant115@gmail.com	4000	2020-03-17 21:01:45
1013	knishant117@gmail.com	18000	2020-03-17 21:03:49
1014	knishant118@gmail.com	7000	2020-03-18 18:03:35
1015	vivek124@gmail.com	5	2020-03-19 11:15:27
1016	vivek124@gmail.com	45000	2020-03-19 11:15:39
1017	knishant118@gmail.com	20000	2020-04-17 00:31:41
1018	vivek124@gmail.com	32000	2020-04-17 00:34:07

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/leave.css">
    <link rel="icon" href="images/icon.png">
    <title>Pay Salary</title>
    <style>
        .searchOutput
        {
            background-color:green;
            height: 0;
            width: 80%;
            margin: 0 auto;
            display: none;
        }
        .searchOutput .list
        {
            background-color: rgb(83, 83, 95);
            width: 100%;
            max-height: 12.6vw;
            overflow-y: scroll;
            position: relative;
        }
        .searchOutput .list::-webkit-scrollbar
        {
            display: none;
        }
        .searchOutput .list p
        {
            color: white;
            padding: 1vw;
            font-size: 1vw;
            margin: 0 auto;
            transition: ease all .7s;
        }
        .searchOutput .list p:hover
        {
            background-color: white;
            cursor: pointer;
            color: rgb(83, 83, 95);
        }
        input[type="search"]:focus + .searchOutput
        {
            display: block;
        }
    </style>
</head>
<body>
<%
if(session.getAttribute("email") == null || !session.getAttribute("role").equals("admin"))
{
    response.sendRedirect("authentication.jsp");
}
%>
<jsp:include page="navigationPannel.jsp"></jsp:include>
<jsp:include page="svg.jsp"></jsp:include>
<div class="container">
    <div class="workspace">
        <form onsubmit="return pay();">
            <h1>Pay Salary</h1>
            <input type="search" id="payee" placeholder="Payee" onkeyup="getPayee(this.value);"
            autocomplete="on">
```

```

<div class="searchOutput">
    <div class="list"></div>
</div>
<input type="text" id="amount" name="amount" style="width: 18vw;" placeholder="Amount"
>
<input type="submit" value="Pay">
<h1 style="color:rgb(70, 255, 70); id="result"></h1>
</form>
</div>
</div>
<jsp:include page="footer.jsp"></jsp:include>
</body>
<script src="scripts/navPannel.js"></script>
<script>
function setPayee(value)
{
    document.getElementById('payee').value = value;
}
function getPayee(payee)
{

    var param = "?payee=" + payee;
    param = param.replace("+", "%2b")

    var xmlhttp = new XMLHttpRequest();
    xmlhttp.open("POST", "paySalaryAJAX.jsp" + param, false);

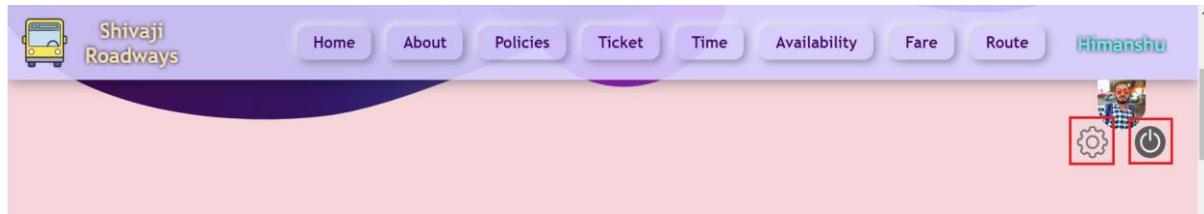
    xmlhttp.onreadystatechange = function(){
        document.getElementsByClassName('list')[0].innerHTML = xmlhttp.responseText;
    }
    xmlhttp.send();
}
function pay()
{
    var payee = document.getElementById("payee").value;
    var amount = document.getElementById("amount").value;
    var param = "?payee=" + payee + "&amount=" + amount;
    param = encodeURI(param);
    console.log(param);

    var xmlhttp = new XMLHttpRequest();
    xmlhttp.open("POST", "paySalaryAJAX2.jsp" + param, false);

    xmlhttp.onreadystatechange = function(){
        document.getElementById("result").innerText = xmlhttp.responseText.trim();
        setInterval(function(){ location.reload(); }, 2000);
    }
    xmlhttp.send();
    return false;
}
</script>
</html>

```

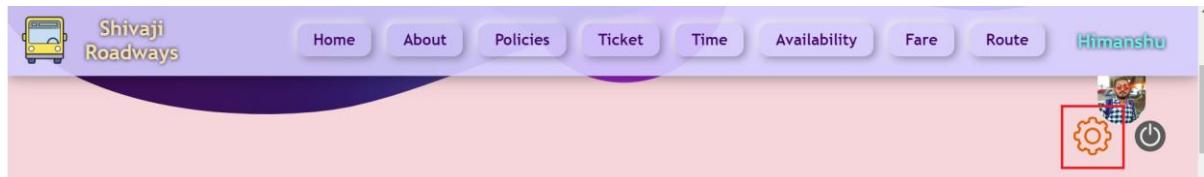
Hovering over profile picture



On hovering two icons are invoking these are

- Gear icon → **User Settings**
- Switch icon → **Log Out**

Let's explore them one by one



settings.jsp

Output

A screenshot of a web browser window titled 'Profile' with the URL 'localhost:8080/BusManagementSystem/setting.jsp'. The page displays a 'Profile!' heading and a table with user data:

Name	Himanshu	
Phone	9990207601	
Password	*****	
Balance	₹10	

The browser interface shows various tabs and system status at the bottom.

Editing the name

The screenshot shows a web browser window with the URL `localhost:8080/BusManagementSystem/setting.jsp`. The page title is "Profile!". At the top, there is a navigation bar with links: Home, About, Policies, Ticket, Time, Availability, Fare, Route, and a user icon labeled "Himanshu". Below the navigation bar, there is a table displaying user information:

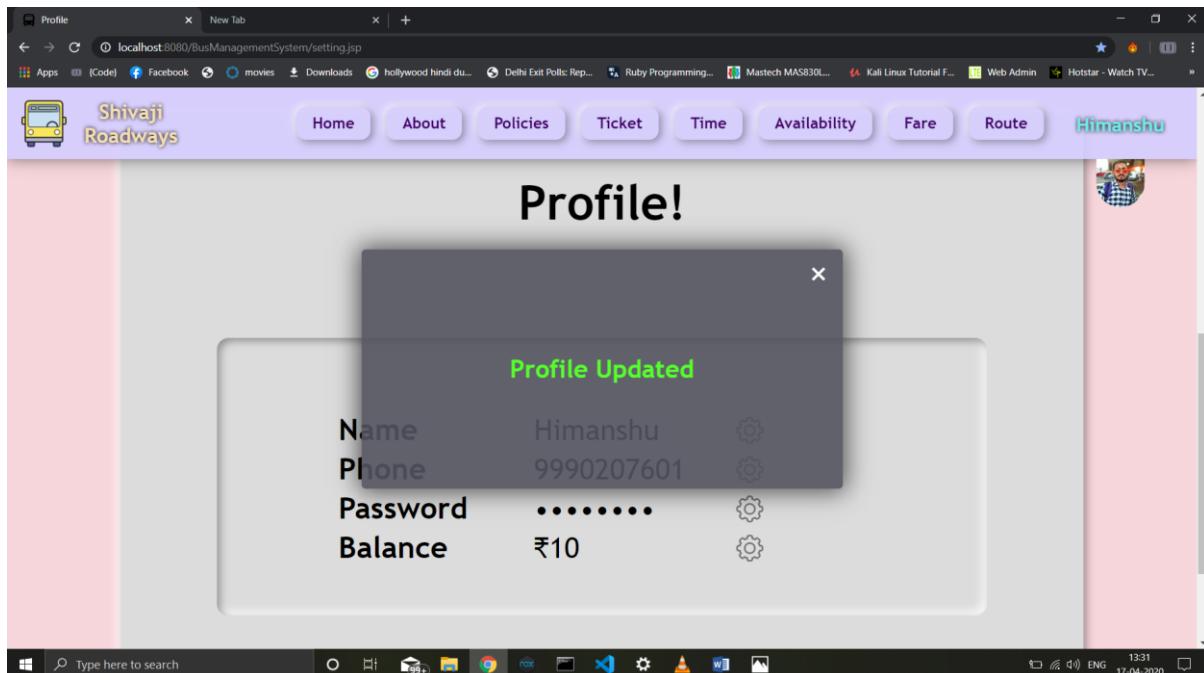
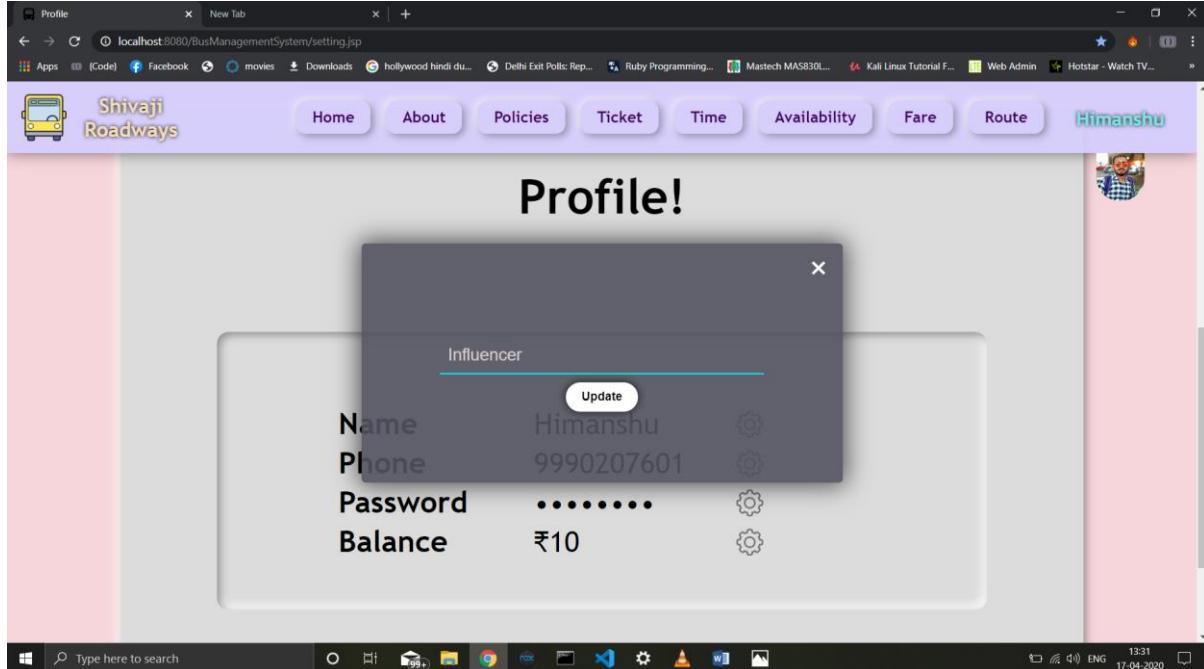
Name	Himanshu	
Phone	9990207601	
Password	*****	
Balance	₹10	

The browser's taskbar at the bottom shows various open tabs and system icons.

The screenshot shows a web browser window with the same URL and title as the previous screenshot. A modal dialog box is overlaid on the page, prompting the user to "Enter New Name". The dialog contains a text input field with the current name "Himanshu" and an "Update" button. The background page remains visible, showing the same user profile information as before.

Renaming

Himanshu → Influencer



Renamed Successfully

The screenshot shows a web browser window with the URL `localhost:8080/BusManagementSystem/setting.jsp`. The page title is "Profile!". At the top, there is a navigation bar with tabs: Home, About, Policies, Ticket, Time, Availability, Fare, Route, and Influencer (which is highlighted with a red border). On the right side of the header, there is a user profile picture. Below the header, the main content area displays the following information in a table-like format:

Name	Influencer	
Phone	9990207601	
Password	*****	
Balance	₹10	

At the bottom of the page, there is a search bar and a taskbar with various icons.

Let's change Balance too.

The screenshot shows a web browser window with the same URL and header as the previous screenshot. A modal dialog box is open over the main content area, prompting the user to enter a new balance value. The input field contains "700". The dialog also contains the following information:

Name	Influencer	
Phone	9990207601	
Password	*****	
Balance	₹10	

At the bottom of the page, there is a search bar and a taskbar with various icons.

Balance Updated

The screenshot shows a web application titled "Shivaji Roadways" with a purple header bar containing navigation links: Home, About, Policies, Ticket, Time, Availability, Fare, Route, and Influencer. The main content area displays a "Profile!" heading and a summary card. The card lists the following information:

Name	Influencer
Phone	9990207601
Password	*****
Balance	₹700

The "Balance" field is highlighted with a red box. The background of the page has a pink and grey gradient.

Let's have a look into database

The screenshot shows the MySQL Workbench interface with a query editor window. The query being run is:

```
1. SELECT * FROM passanger;
```

The results are displayed in a grid:

email	name	phone	password	walletBalance	profilePic
freelancerkulsum@...	Suma	9999999999	1234	90	SL00
himanshu32301@...	Influencer	9990207601	password	700	SL00
jaat39157@gmail....	Rahul	1234567890	12345	5	SL00
knishant114@gmai...	Aman Bhai	962559000	1234	170	SL00
MUL	MUL	MUL	MUL	MUL	MUL

The "password" column for the Influencer row and the "walletBalance" column for the Influencer row are both highlighted with red boxes.

Values are successfully updated

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/common.css">
    <link rel="stylesheet" href="styles/about.css">
    <link rel="icon" href="images/icon.png">
    <title>Profile</title>
    <style>
        .staff
        {
            box-shadow: inset 4px 4px 10px rgba(0, 0, 0, 0.356), inset -5px -
5px 12px 0 rgb(255, 255, 255);
            border-radius: 1vw;
            width: 80%;
            padding-top: 4vw;
            padding-bottom: 4vw;
            margin: 4vw auto;
        }
        .staff h2
        {
            font-size: 2.8vw;
        }
        .about table
        {
            margin-top: 2vw;
            padding-left: 10vw;
            padding-right: 5vw;
            width: 100%;
            table-layout: fixed;
        }
        .about table tr th
        {
            font-size: 2.5vw;
        }
        .about table tr td
        {
            font-size: 2.4vw;
        }
        td, th
        {
            text-transform: capitalize;
            text-align: left;
        }
        .editButton
        {
            color: black;
            float: left;
            border-radius: 5vw;
            width: 2.8vw;
            height: 2.8vw;
            font-size: 2vw;
            padding: .2vw;
            background-image: url('./images/settings.png');
            background-repeat: no-repeat;
            background-size: 70% 70%;
            background-position: center;
            filter: grayscale(1);
            transition: ease all .5s;
        }
        .editButton:hover
        {
            box-shadow: 7px 7px 12px rgba(255, 255, 255, 0.45), -7px -7px 12px rgba(70, 70, 70, 0.13);
            filter: grayscale(0);
            background-size: 90% 90%;
            cursor: pointer;
            transform: rotateZ(180deg);
        }
    </style>

```

```

        }
    .editButton:active
    {
        box-shadow: inset 7px 7px 12px rgba(255, 255, 255, 0.45), inset -7px -
7px 12px rgba(70, 70, 70, 0.13);
    }
    .updationWindow
    {
        position: fixed;
        z-index: 2;
        left: 50%;
        top: 50%;
        transform: translate(-50%, -50%);
        background-color:rgba(83, 83, 95, 0.90);
        box-shadow: 0 0 30px 4px rgba(0, 0, 0, 0.63);
        width: 0vw;
        height: 0vw;
        opacity: 0;
        border-radius: 5px;
        transition: ease all .5s;
        overflow: hidden;
    }
    #close
    {
        float: right;
        display: block;
        padding: 0.5vw;
        text-align: center;
        height: 2vw;
        width: 2vw;
        font-size: 1.5vw;
        margin: .5vw;
        color: white;
        user-select: none;
        border-radius: 10vw;
        transition: ease all .5s;
    }
    #close:hover
    {
        background-color:rgba(28, 28, 53, 0.63);
        cursor: pointer;
    }
    form
    {
        position: relative;
        display: none;
        clear: both;
        top: 35%;
        transform: translateY(-50%);
        font-family: sans-serif;
        margin: 0 auto;
        width: 80%;
        /* background-color: yellow; */
    }
    form input[type="text"], form input[type="password"], form input[type="range"], form input[typ
e="search"]
    {
        display: block;
        outline: none;
        width: 60%;
        background: transparent;
        border: none;
        border-bottom: 1px solid rgb(197, 197, 197);
        font-size: 1vw;
        margin: 10px auto;
        padding: 10px;
        color: rgb(214, 205, 205);
        caret-color: rgb(214, 205, 205);
        animation-name: input2;
        animation-duration: 0.6s;
        animation-fill-mode: forwards;
    }
    form h1
    {

```

```

        color: white;
        text-align: center;
        margin-bottom: 3vw;
    }
form select
{
    display: block;
    outline: none;
    width: 65%;
    background: transparent;
    border: none;
    color: rgb(214, 205, 205);
    border: 1px solid rgb(197, 197, 197);
    font-size: 1vw;
    margin: 10px auto;
    padding: 10px;
    caret-color: rgb(214, 205, 205);
    animation-name: input2;
    animation-duration: 0.6s;
    animation-fill-mode: forwards;

}
input[type="date"]
{
    display: block;
    outline: none;
    width: 60%;
    background: transparent;
    border: none;
    color: rgb(214, 205, 205);
    border: 1px solid rgb(197, 197, 197);
    font-size: 1vw;
    margin: 10px auto;
    padding: 10px;
    caret-color: rgb(214, 205, 205);
    animation-name: input2;
    animation-duration: 0.6s;
    animation-fill-mode: forwards;

}
form select option
{
    display: block;
    outline: none;
    width: 65%;
    background-color: rgb(83, 83, 95);
    border: none;
    color: white;
    border: 1px solid rgb(197, 197, 197);

    font-size: 1vw;
    margin: 10px auto;
    padding: 10px;
    caret-color: rgb(214, 205, 205);
    animation-name: input2;
    animation-duration: 0.6s;
    animation-fill-mode: forwards;

}
form input[type="submit"], input[type="button"]
{
    display: block;
    outline: none;
    /* width: 60%; */
    background: transparent;
    color: rgb(214, 205, 205);
    border: 2px solid white;
    border-radius: 10px;
    font-size: 1vw;
    font-weight: bold;
    margin: 10px auto;
    padding: 8px 18px;
}

```

```

form input[type="submit"]:hover, form input[type="submit"]:focus, input[type="button"]:hover,
input[type="button"]:focus
{
    position: relative;
    cursor: pointer;
    animation-name: submit;
    animation-duration: 1s;
    animation-fill-mode: forwards;
}
@keyframes submit
{

    100%
    {

        color: black;
        background-color: white;
        box-shadow: 0 0 10px 1px rgba(0, 0, 0, 0.63);
        border-radius: 50px;
    }
}

form input::placeholder
{
    color: rgb(214, 205, 205);
}

input[type="text"]:focus, input[type="password"]:focus, input[type="search"]:focus
{
    animation-name: input;
    animation-duration: 0.6s;
    animation-fill-mode: forwards;
}
@keyframes input
{

    100%
    {

        border-bottom: 1.9px solid aqua;
        width: 80%;
        font-size: 1.4vw;
    }
}

select:focus
{
    animation-name: select;
    animation-duration: 0.6s;
    animation-fill-mode: forwards;
}
@keyframes select
{

    100%
    {
        border: 1.9px solid aqua;
    }
}

optgroup
{
    background-color: rgb(83, 83, 95);
}

option:disabled
{
    color: rgb(214, 205, 205);
}
#dob::before
{
    content: "D.O.B.: \00a0";
}
#result
{

```

```

        color: rgb(87, 254, 45);
        display: none;
        position: relative;
        top: 30%;
        transform: translateY(-50%);
        clear: both;
        text-align: center;
        margin-bottom: 3vw;
    }
    </style>

</head>
<body>
    <div class="updationWindow">
        <div id="close" onclick="closeWindow();">&#10006;</div>
        <h1 id="result"></h1>
        <form id="nameForm" onsubmit="return updateData('name');">
            <input type="text" name="name" placeholder="Enter New Name">
            <input type="submit" value="Update">
        </form>
        <form id="phoneForm" onsubmit="return updateData('phone');">
            <input type="text" name="phone" placeholder="Enter New Phone No">
            <input type="submit" value="Update">
        </form>
        <form id="passwordForm" onsubmit="return updateData('password');">
            <input type="password" name="password" placeholder="Enter New Password">
            <input type="submit" value="Update">
        </form>
        <form id="walletBalanceForm" onsubmit="return updateData('walletBalance');">
            <input type="text" name="walletBalance" placeholder="Add Amount to be added">
            <input type="submit" value="Update">
        </form>
        <form id="dobForm" onsubmit="return updateData('dob');">
            <input type="date" id="dob" name='dob'>
            <input type="submit" value="Update">
        </form>
        <form id="licenceForm" onsubmit="return updateData('licenceNo');">
            <input type="text" name="licenceNo" placeholder="Enter Licence No">
            <input type="submit" value="Update">
        </form>
        <form id="experienceForm" onsubmit="return updateData('experience');">
            <input type="text" name="experience" placeholder="Enter Experience">
            <input type="submit" value="Update">
        </form>
    </div>
    <jsp:include page="navigationPannel.jsp"></jsp:include>
    <div class="container">
        <jsp:include page="svg.jsp"></jsp:include>
        <div class="innerContainer">
            <h1>-- Edit Your Profile! --</h1>
            <p>To provide bus services in very reasonable prices<br>
                with full of safty!</p>
        </div>
        <div class="about" style="margin-top: 25vw; padding-bottom: 0.1vw;">
            <h1>Profile!</h1>
            <div class="staff">
                <table >
                    <%@page import="java.sql.*"%>
                    <%
                    String role = (String)session.getAttribute("role");
                    Connection con = null;
                    Statement st = null;
                    ResultSet rs = null;
                    String password = "";
                    try
                    {
                        Class.forName("com.mysql.jdbc.Driver");
                        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234");
                        st = con.createStatement();
                        if(role.equals("admin"))
                        {

```

```

        rs = st.executeQuery("select * from admin where email='"+session.getAttribute("email")+"'");
        if(rs.next())
        {
            for(int i = 0; i < rs.getString("password").length(); i++)
            {
                password += "&bull;";
            }
        %>
        <tr>
            <th>Name</th><td><%=rs.getString("name")%><td><div class="editButton" onclick="change('name')"></div></td>
        </tr>
        <tr>
            <th>Phone</th><td><%=rs.getString("phone")%><td><div class="editButton" onclick="change('phone')"></div></td>
        </tr>
        <tr>
            <th>Password</th><td><%=password%><td><div class="editButton" onclick="change('password')"></div></td>
        </tr>
        <%}
    }

    else if(role.equals("passanger"))
    {
        rs = st.executeQuery("select * from passanger where email='"+session.getAttribute("email")+"'");
        if(rs.next())
        {
            for(int i = 0; i < rs.getString("password").length(); i++)
            {
                password += "&bull;";
            }
        %>
        <tr>
            <th>Name</th><td><%=rs.getString("name")%><td><div class="editButton" onclick="change('name')"></div></td>
        </tr>
        <tr>
            <th>Phone</th><td><%=rs.getString("phone")%><td><div class="editButton" onclick="change('phone')"></div></td>
        </tr>
        <tr>
            <th>Password</th><td><%=password%><td><div class="editButton" onclick="change('password')"></div></td>
        </tr>
        <tr>
            <th>Balance</th><td>&#8377;<%=rs.getString("walletBalance")%><td><div class="editButton" onclick="change('walletBalance')"></div></td>
        </tr>
        <%}
    }

    else if(role.equals("ticketchecker"))
    {
        rs = st.executeQuery("select * from ticketchecker where email='"+session.getAttribute("email")+"'");
        if(rs.next())
        {
            for(int i = 0; i < rs.getString("password").length(); i++)
            {
                password += "&bull;";
            }
        %>
        <tr>
            <th>Name</th><td><%=rs.getString("name")%><td><div class="editButton" onclick="change('name')"></div></td>
        </tr>
        <tr>
            <th>Phone</th><td><%=rs.getString("phone")%><td><div class="editButton" onclick="change('phone')"></div></td>
        </tr>
        <tr>

```

```

                <th>Password</th><td><%=password%><td><div class="editButton"
onclick="change('password')"></div></td>
                </tr>
                <tr>
                    <th>D.O.B.</th><td><%=rs.getString("dob")%><td><div class="edi
tButton" onclick="change('dob')"></div></td>
                    </tr>
                <%}
            }

            else if(role.equals("driver"))
            {
                rs = st.executeQuery("select * from driver where email='"+session.getAttribute("email")+"'");

                if(rs.next())
                {
                    for(int i = 0; i < rs.getString("password").length(); i++)
                    {
                        password += "&bull;";
                    }
                %>
                    <tr>
                        <th>Name</th><td><%=rs.getString("name")%><td><div class="edit
Button" onclick="change('name')"></div></td>
                        </tr>
                        <tr>
                            <th>Phone</th><td><%=rs.getString("phone")%><td><div class="ed
itButton" onclick="change('phone')"></div></td>
                            </tr>
                            <tr>
                                <th>Password</th><td><%=password%><td><div class="editButton"
onclick="change('password')"></div></td>
                                </tr>
                                <tr>
                                    <th>Licence</th><td><%=rs.getString("licenceNo")%><td><div cla
ss="editButton" onclick="change('licence')"></div></td>
                                    </tr>
                                    <tr>
                                        <th>Experience</th><td><%=rs.getString("experience")%> years<t
d><div class="editButton" onclick="change('experience')"></div></td>
                                        </tr>
                                        <tr><th>D.O.B.</th><td><%=rs.getString("dob")%><td><div class="edi
tButton" onclick="change('dob')"></div></td></tr>
                                    <%}
                }

                else if(role.equals("conductor"))
                {
                    rs = st.executeQuery("select * from conductor where email='"+session.getAttribute("email")+"'");

                    if(rs.next())
                    {
                        for(int i = 0; i < rs.getString("password").length(); i++)
                        {
                            password += "&bull;";
                        }
                    %>
                        <tr>
                            <th>Name</th><td><%=rs.getString("name")%><td><div class="edit
Button" onclick="change('name')"></div></td>
                            </tr>
                            <tr>
                                <th>Phone</th><td><%=rs.getString("phone")%><td><div class="ed
itButton" onclick="change('phone')"></div></td>
                                </tr>
                                <tr>
                                    <th>Password</th><td><%=password%><td><div class="editButton"
onclick="change('password')"></div></td>
                                    </tr>
                                    <tr>
                                        <th>D.O.B.</th><td><%=rs.getString("dob")%><td><div class="edi
tButton" onclick="change('dob')"></div></td>
                                        </tr>
                                    <%}
                }
            }
        
```

```

        }
    }
    catch(Exception e){out.print(e.getMessage());}
    %>
  </table>
</div>
<jsp:include page="footer.jsp"></jsp:include>
</body>
<script src="scripts/navPannel.js"></script>
<script>
    function change(arg)
    {
        var updatingWindow = document.getElementsByClassName("updationWindow")[0];
        updatingWindow.style.height = "20vw";
        updatingWindow.style.width = "40vw";
        updatingWindow.style.opacity = "1";
        if(arg == "name")
        {
            document.getElementById("nameForm").style.display = "block";
        }
        else if(arg == "phone")
        {
            document.getElementById("phoneForm").style.display = "block";
        }
        else if(arg == "password")
        {
            document.getElementById("passwordForm").style.display = "block";
        }
        else if(arg == "walletBalance")
        {
            document.getElementById("walletBalanceForm").style.display = "block";
        }
        else if(arg == "dob")
        {
            document.getElementById("dobForm").style.display = "block";
        }
        else if(arg == "licence")
        {
            document.getElementById("licenceForm").style.display = "block";
        }
        else if(arg == "experience")
        {
            document.getElementById("experienceForm").style.display = "block";
        }
    }

    function closeWindow()
    {
        var updatingWindow = document.getElementsByClassName("updationWindow")[0];
        updatingWindow.style.height = "0";
        updatingWindow.style.width = "0";
        updatingWindow.style.opacity = "0";
        var form = document.getElementsByTagName("form");
        for(i = 0; i < form.length; i++)
        {
            form[i].style.display = "none";
        }
    }

    function updateData(item)
    {
        var value = document.getElementsByName(item)[0].value;
        console.log(item, value);
        var xmlhttp = new XMLHttpRequest();
        var param = "?item=" + item + "&value=" + value;
        param = encodeURI(param);
        xmlhttp.open("POST", "updateProfile.jsp" + param, false);
        xmlhttp.onreadystatechange = function()
        {
            var result = document.getElementById("result");
            var form = document.getElementsByTagName("form");
            for(i = 0; i < form.length; i++)
            {
                form[i].style.display = "none";
            }
        }
    }

```

```
        }
        result.style.display = "block";
        result.innerText = xmlhttp.responseText.trim();
        setInterval(function(){
            var updatingWindow = document.getElementsByClassName("updationWindow")[0];
            updatingWindow.style.height = "0";
            updatingWindow.style.width = "0";
            updatingWindow.style.opacity = "0";
        }, 1000);
        setInterval(function(){
            location.reload();
        }, 1500);

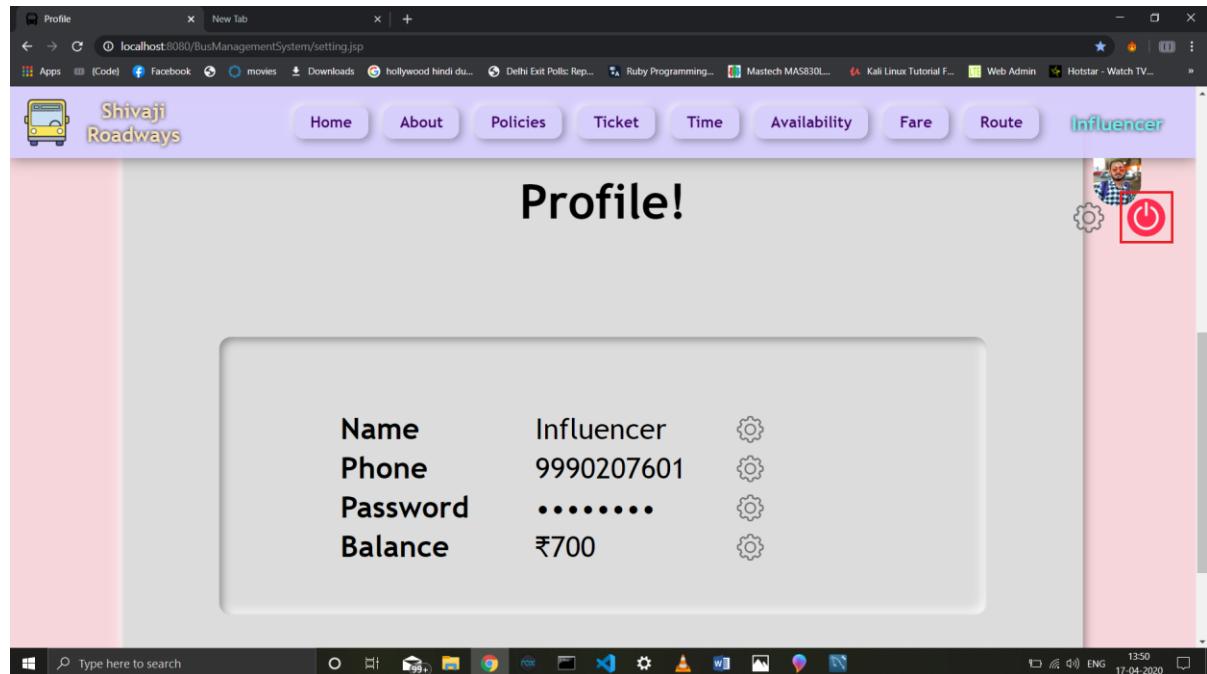
    }
    xmlhttp.send();

    return false;
}
</script>
</html>
```

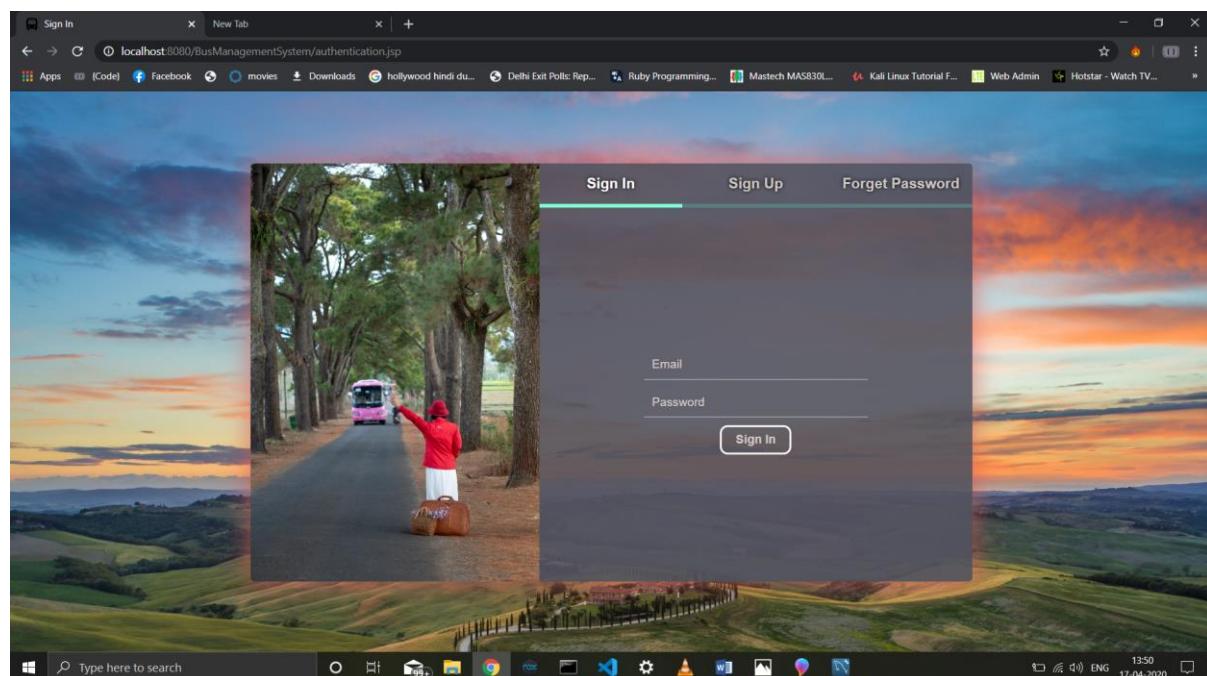
logout.java

Output

Logging out



Logged out



Source Code

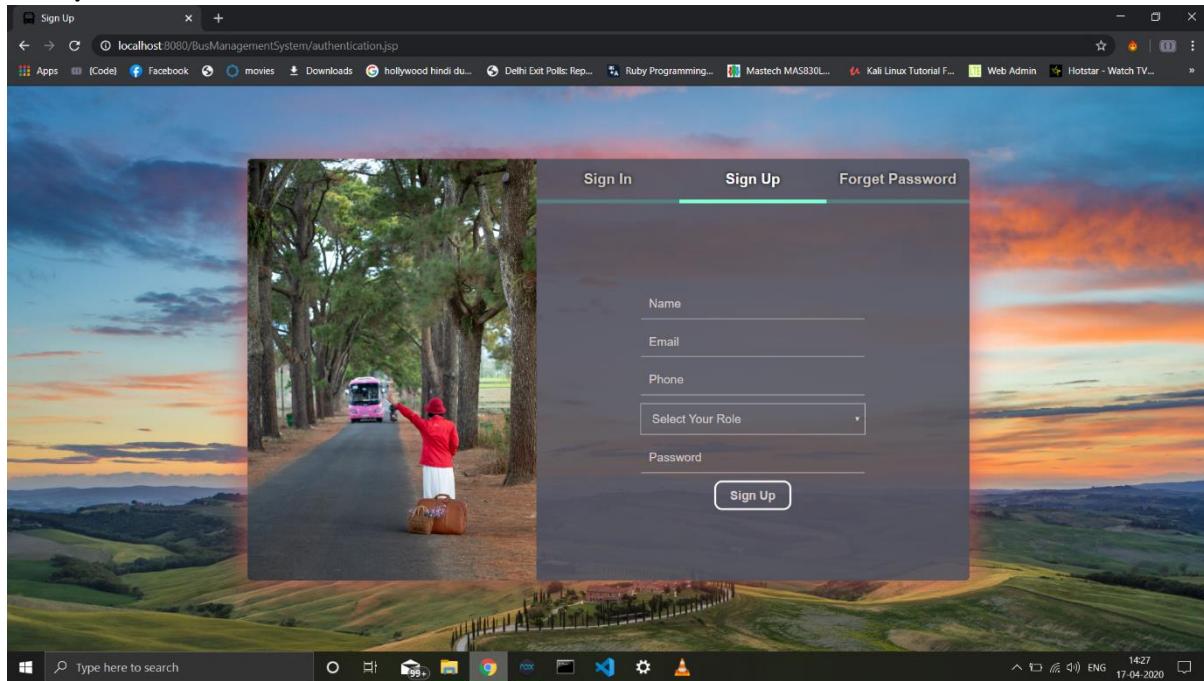
```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class logout extends HttpServlet {

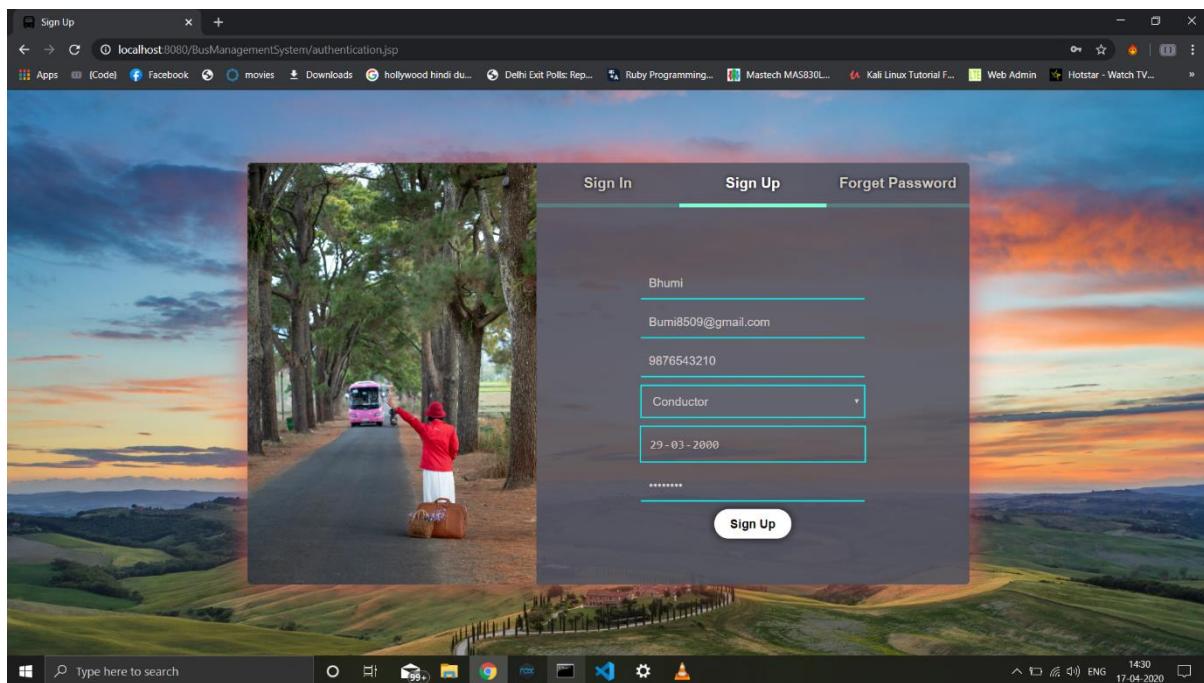
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        HttpSession session = request.getSession();
        session.invalidate();
        response.sendRedirect("authentication.jsp");
    }
}
```

Sign Up

Output



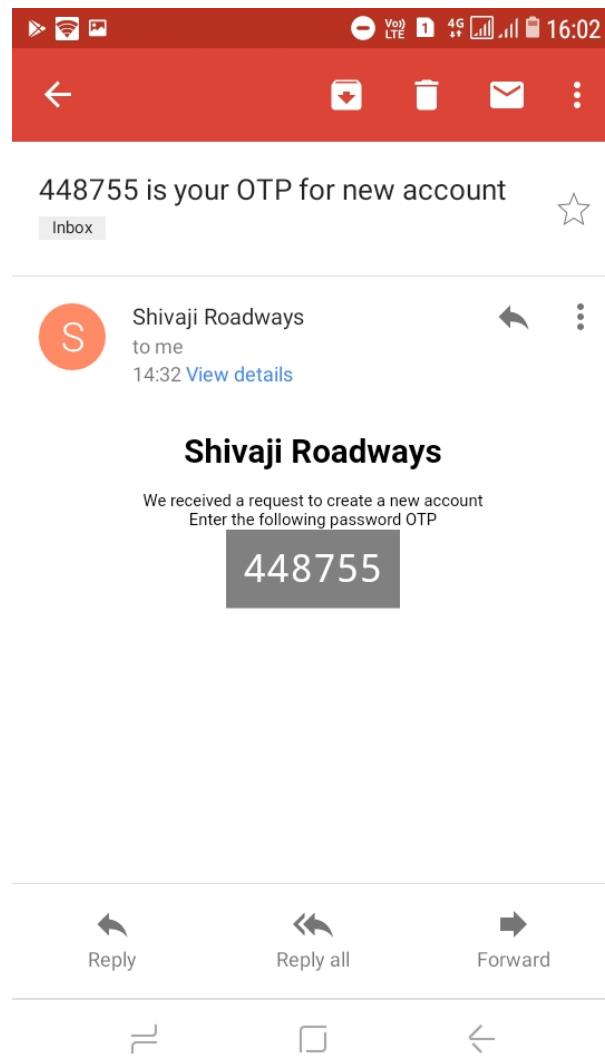
Signing up for Conductor



Selection: action → SignUp

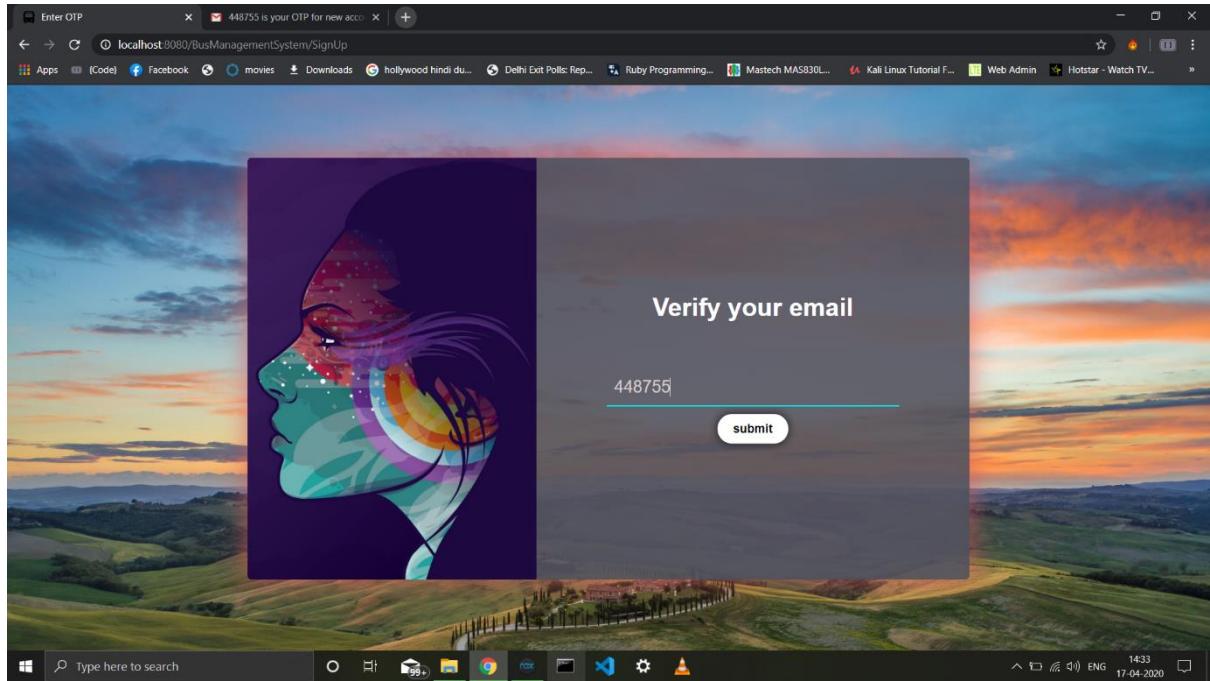
Name	Bhumi
Email	Bumi8509@gmail.com
Phone	9876543210
Role	Conductor
Date of birth	29/03/2000
Password	abcbhumi

A randomly generated OTP sent for account verification

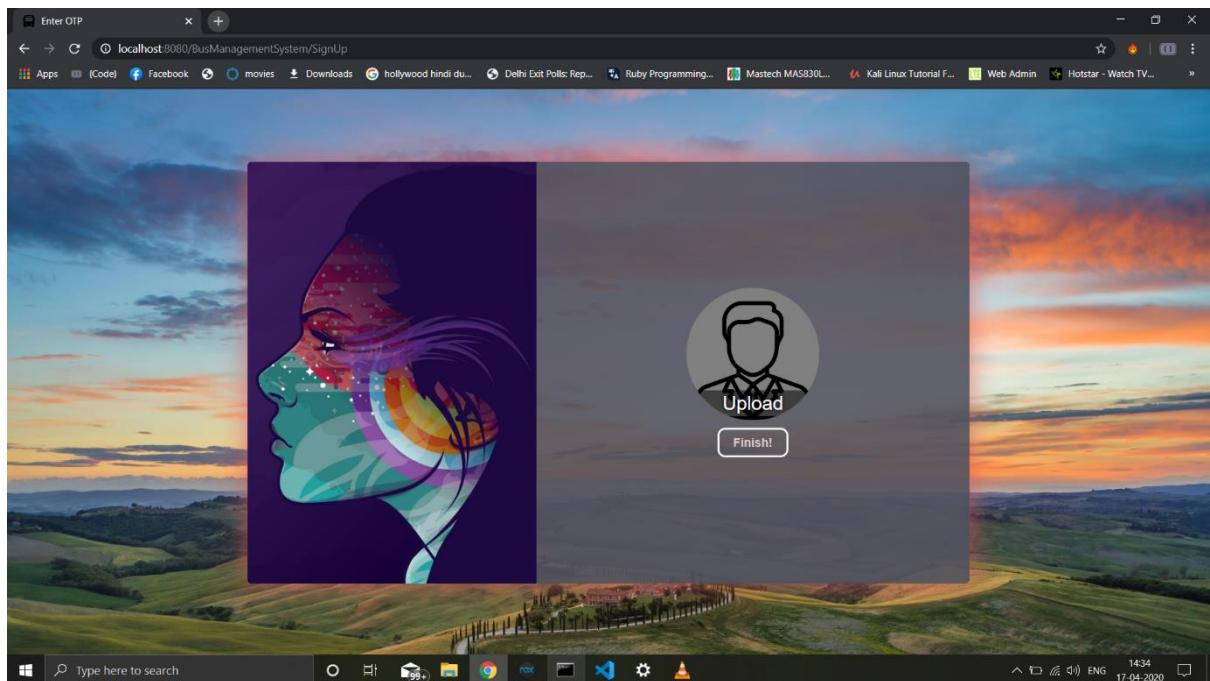


448755 → Bumi8509@gmail.com

Entering OTP



An optional prompt for uploading a profile picture



Selecting Profile Picture

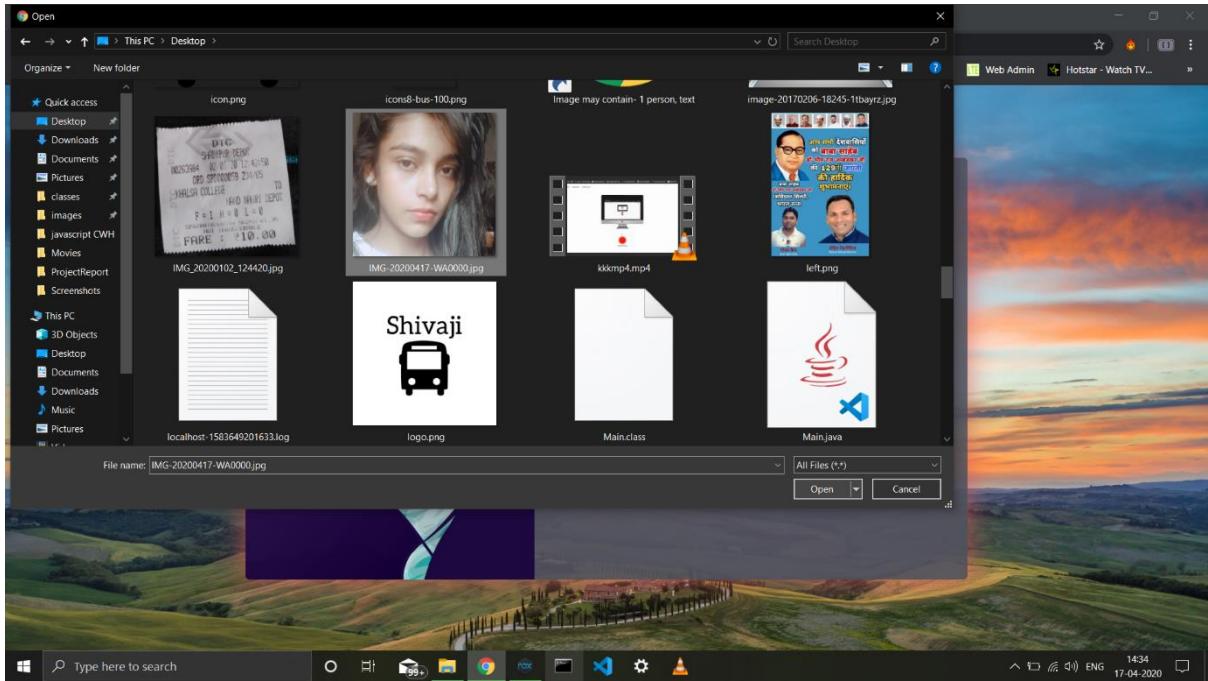
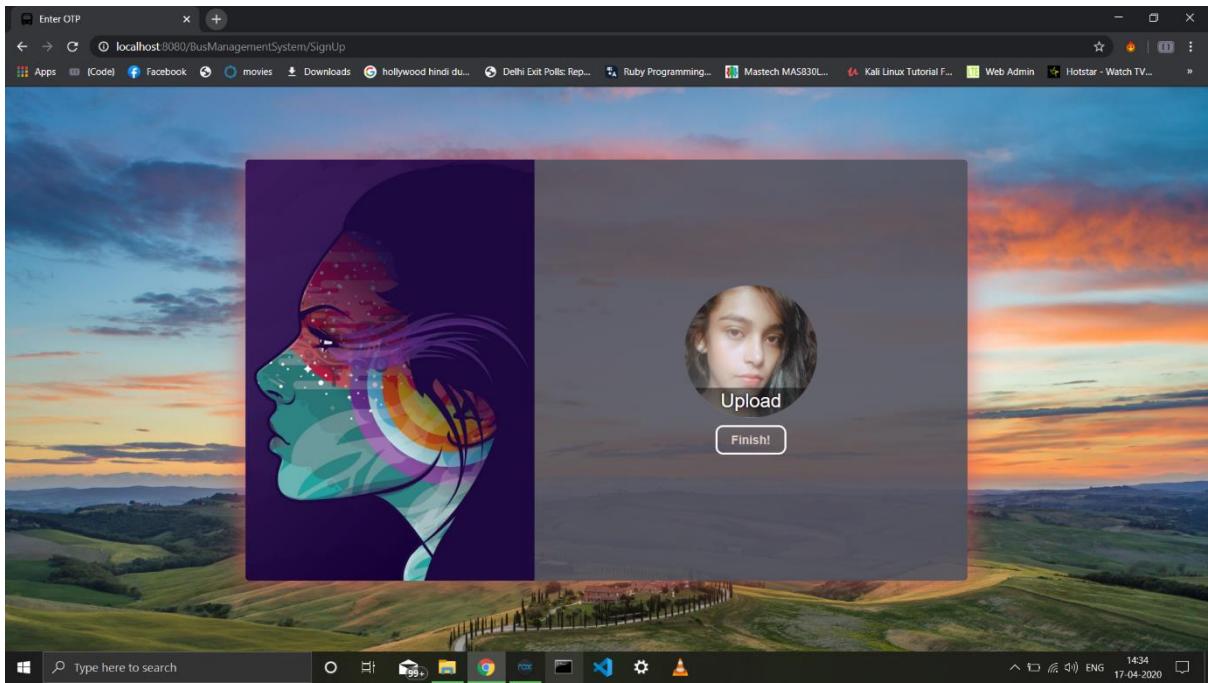
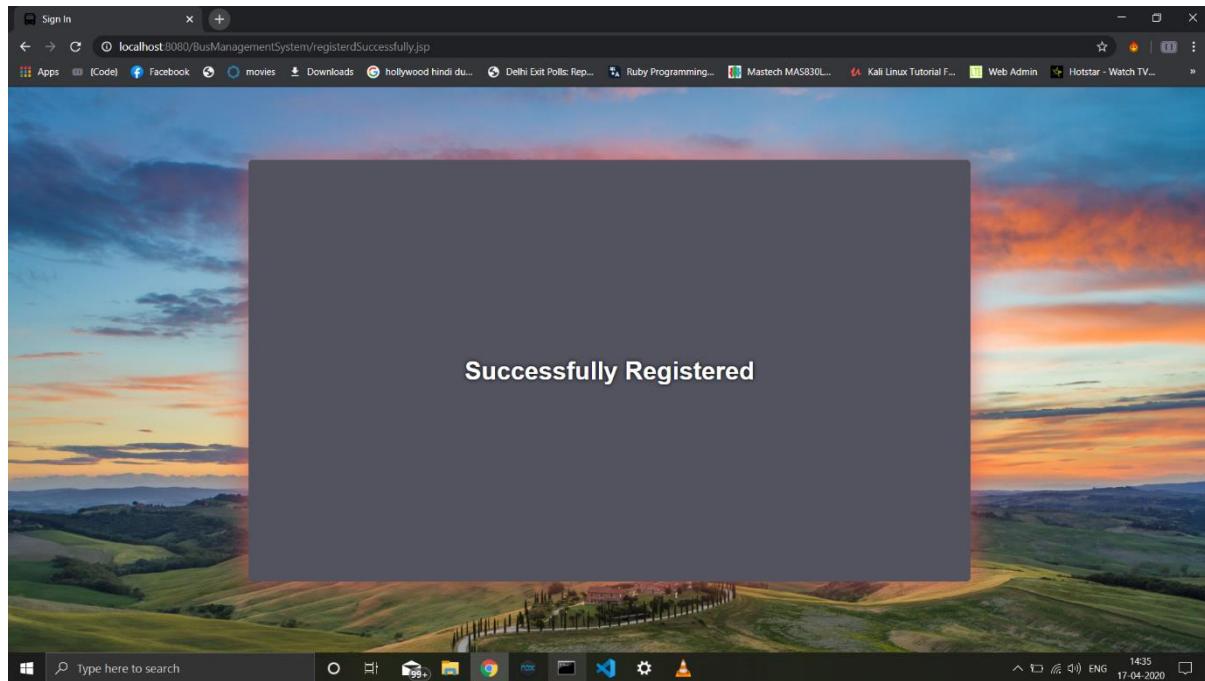


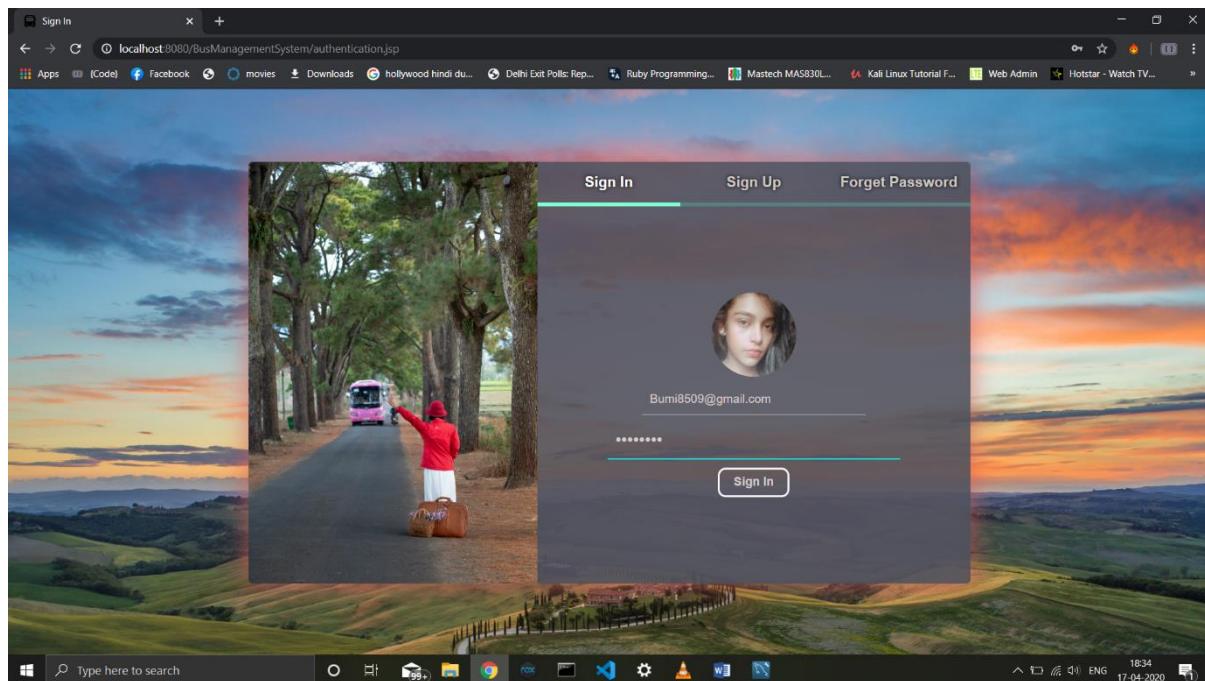
Image uploaded



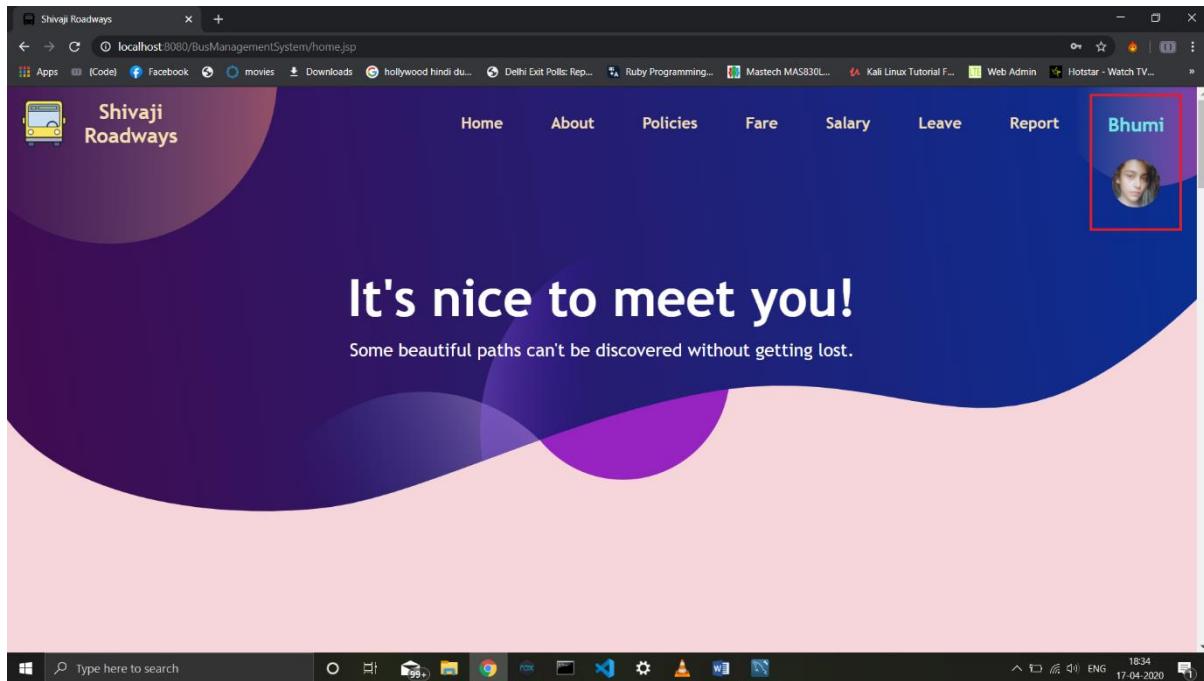
Registration Completed!



Trying to logging in...



Logged In!



Output From Database

email	name	phone	password	dob	profilePic
Bumi8509@gmail.com	Bhumi	9876543210	abc bhumi	2000-03-29	
knishant117@gmail.com	Nishant Kumar	7838716089	1234	1999-11-25	
mark@facebook.com	Mark Zuckerberg	1234567890	1234	1984-05-14	
vivek124@gmail.com	vivek	1234567890	1234	2020-12-27	

Entry successfully added into Database

SignUp.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class SignUp extends HttpServlet {

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        HttpSession session = request.getSession();

        String name = request.getParameter("name");
        String phone = request.getParameter("phone");
        String email = request.getParameter("email");
        String role = request.getParameter("role");
        String password = request.getParameter("password");
        String balance = null;
        String licenceNo = null;
        String experience = null;
        String joiningDate = null;

        if(role.equals("Passanger"))
        {
            balance = request.getParameter("walletBalance");
            session.setAttribute("tempBalance", balance);
        }
        if(role.equals("Driver"))
        {
            licenceNo = request.getParameter("licenceNo");
            experience = request.getParameter("experience");
            joiningDate = request.getParameter("joiningDate");
            session.setAttribute("tempLicenceNo", licenceNo);
            session.setAttribute("tempExperience", experience);
            session.setAttribute("tempJoiningDate", joiningDate);
        }
        if(role.equals("Conductor"))
        {
            joiningDate = request.getParameter("joiningDate");
            session.setAttribute("tempJoiningDate", joiningDate);
        }
        if(role.equals("Ticket Checker"))
        {
            joiningDate = request.getParameter("joiningDate");
            session.setAttribute("tempJoiningDate", joiningDate);
        }
        session.setAttribute("tempName", name);
        session.setAttribute("tempPhone", phone);
        session.setAttribute("tempEmail", email);
        session.setAttribute("tempRole", role);
        session.setAttribute("tempPassword", password);

        String to = request.getParameter("email");
        String otp=GenerateOTP.get();
        String subject = otp+" is your OTP for new account";
        String message =otp;
        String user = "knishant113@gmail.com"; //gmail user ID
        String pass = "xxxxxx"; //gmail user password
        SendMail.sendForSignUp(to,subject,message,user,pass);
        request.setAttribute("otp", otp);
        request.getRequestDispatcher("confirmEmail.jsp").forward(request, response);
        response.sendRedirect("confirmEmail.jsp");
    }
}
```

singUpProcess.jsp

```
<%@page import="java.sql.*"><%@ page import = "java.io.*,java.util.*, javax.servlet.*" %>
<%@ page import = "javax.servlet.http.*" %>
<%@ page import = "org.apache.commons.fileupload.*" %>
<%@ page import = "org.apache.commons.fileupload.disk.*" %>
<%@ page import = "org.apache.commons.fileupload.servlet.*" %>
<%@ page import = "org.apache.commons.io.output.*" %>

<%
File file ;
int maxFileSize = 5000 * 1024;
int maxMemSize = 5000 * 1024;
String fileName = "";
ServletContext context = pageContext.getServletContext();
String filePath = context.getInitParameter("file-upload");
String contentType = request.getContentType();

if ((contentType.indexOf("multipart/form-data") >= 0)) {
    DiskFileItemFactory factory = new DiskFileItemFactory();
    factory.setSizeThreshold(maxMemSize);

    factory.setRepository(new File("c:\\temp"));
    ServletFileUpload upload = new ServletFileUpload(factory);

    upload.setSizeMax( maxFileSize );

    try {
        List fileItems = upload.parseRequest(request);
        Iterator i = fileItems.iterator();

        out.println("<html>");
        out.println("<head>");
        out.println("<title>JSP File upload</title>");
        out.println("</head>");
        out.println("<body>");

        while ( i.hasNext () ) {
            FileItem fi = (FileItem)i.next();
            if ( !fi.isFormField () ) {
                // Get the uploaded file parameters
                String fieldName = fi.getFieldName();
                int dotPos = fi.getName().lastIndexOf(".");
                String extn = fi.getName().substring(dotPos, fi.getName().length());

                fileName = (String)session.getAttribute("tempEmail")+extn;
                boolean isInMemory = fi.isInMemory();
                long sizeInBytes = fi.getSize();

                // Write the file
                if( fileName.lastIndexOf("\\") >= 0 ) {
                    file = new File( filePath +
                        fileName.substring( fileName.lastIndexOf("\\") ) );
                } else {
                    file = new File( filePath +
                        fileName.substring(fileName.lastIndexOf("\\")+1) );
                }
                fi.write( file );
                out.println("Uploaded Filename: " + filePath +
                    fileName + "<br>");
            }
        }
        out.println("</body>");
        out.println("</html>");
    } catch(Exception ex) {
        System.out.println(ex);
    }
} else {
    out.println("<html>");
    out.println("<head>");
    out.println("<title>Servlet upload</title>");
    out.println("</head>");
```

```

        out.println("<body>");
        out.println("<p>No file uploaded</p>");
        out.println("</body>");
        out.println("</html>");
    }

    String name = (String)session.getAttribute("tempName");
    String email = (String)session.getAttribute("tempEmail");
    String phone = (String)session.getAttribute("tempPhone");
    String role = (String)session.getAttribute("tempRole");
    String password = (String)session.getAttribute("tempPassword");
    String balance = null;
    String licenceNo = null;
    String experience = null;
    String joiningDate = null;

    Connection con = null;
    Statement st = null;
    String query = null;

    if(role.equals("Admin"))
    {
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234");
            st = con.createStatement();
            query = "insert into Email values('" + email + "')";
            st.executeUpdate(query);
            query = "insert into admin(email, name, phone, password, profilePic) values('" + email + "', '" + name + "', '" + phone + "', '" + password + "', '" + fileName + "');";
            st.executeUpdate(query);
        }
        catch(Exception e)
        {
            out.print(e.getMessage());
        }
    }

    if(role.equals("Passanger"))
    {
        balance = (String)session.getAttribute("tempBalance");
        out.print(" account balance: "+balance);
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234");
            st = con.createStatement();
            query = "insert into Email values('" + email + "')";
            st.executeUpdate(query);
            query = "insert into passanger(email, name, phone, password, walletBalance, profilePic) values('" + email + "', '" + name + "', '" + phone + "', '" + password + "', '" + Integer.parseInt(balance) + "', '" + fileName + "');";
            st.executeUpdate(query);
        }
        catch(Exception e)
        {
            out.print(e.getMessage());
        }
    }

    if(role.equals("Driver"))
    {
        licenceNo = (String)session.getAttribute("tempLicenceNo");
        experience = (String)session.getAttribute("tempExperience");
        joiningDate = (String)session.getAttribute("tempJoiningDate");

        out.print(" licenceNo: " + licenceNo + " experience: " + experience + " joiningDate: " + joiningDate);
    }
}

```

```

try
{
    Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234");
    st = con.createStatement();
    query = "insert into Email values('" + email + "')";
    st.executeUpdate(query);
    query = "insert into driver(email, name, phone, password, licenceNo, experience, dob, profilePic) values('"+email+"', '"+name+"', '"+phone+"', '"+password+"', '"+licenceNo+"', "+Integer.parseInt(experience)+", '"+joiningDate+"', '"+fileName+"');";
    st.executeUpdate(query);
}
catch(Exception e)
{
    out.print(e.getMessage());
}
}

if(role.equals("Conductor"))
{
    joiningDate = (String)session.getAttribute("tempJoiningDate");
    out.print(" joiningDate: "+joiningDate);

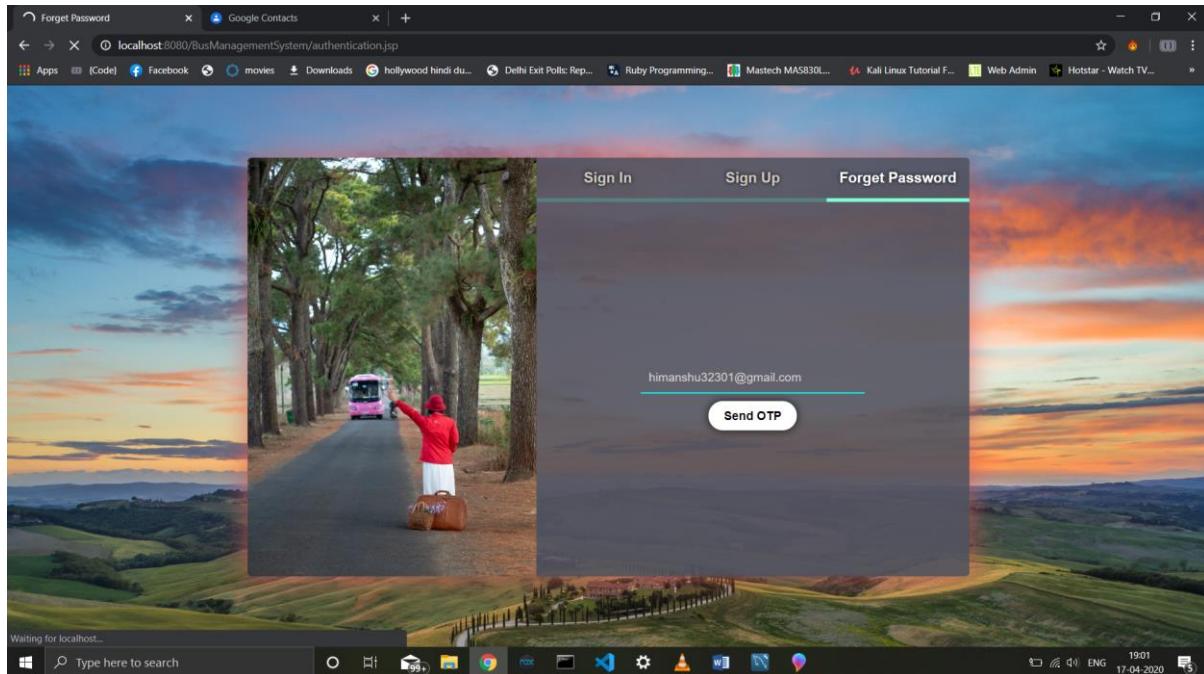
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234");
        st = con.createStatement();
        query = "insert into Email values('" + email + "')";
        st.executeUpdate(query);
        query = "insert into conductor(email, name, phone, password, dob, profilePic) values('"+email+"', '"+name+"', '"+phone+"', '"+password+"', '"+joiningDate+"', '"+fileName+"');";
        st.executeUpdate(query);
    }
    catch(Exception e)
    {
        out.print(e.getMessage());
    }
}
if(role.equals("Ticket Checker"))
{
    joiningDate = (String)session.getAttribute("tempJoiningDate");
    out.print(" joiningDate: "+joiningDate);

    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234");
        st = con.createStatement();
        query = "insert into Email values('" + email + "')";
        st.executeUpdate(query);
        query = "insert into ticketchecker(email, name, phone, password, dob, profilePic) values('"+email+"', '"+name+"', '"+phone+"', '"+password+"', '"+joiningDate+"', '"+fileName+"');";
        st.executeUpdate(query);
    }
    catch(Exception e)
    {
        out.print(e.getMessage());
    }
}
response.sendRedirect("registeredSuccessfully.jsp");
%>

```

Forget Password

We are assuming that the user himanshu32301@gmail.com have forgot the account password



Sending a randomly generated OTP

489893 → himanshu32301@gmail.com

7

7:43 PM

14.2KB/s LTE 4G 52



489893 is your account
recovery code Inbox



{ } **Shivaji Roadways** 7:01 PM
to me ▾



Shivaji Roadways

We received a request to reset your password
Enter the following password reset code

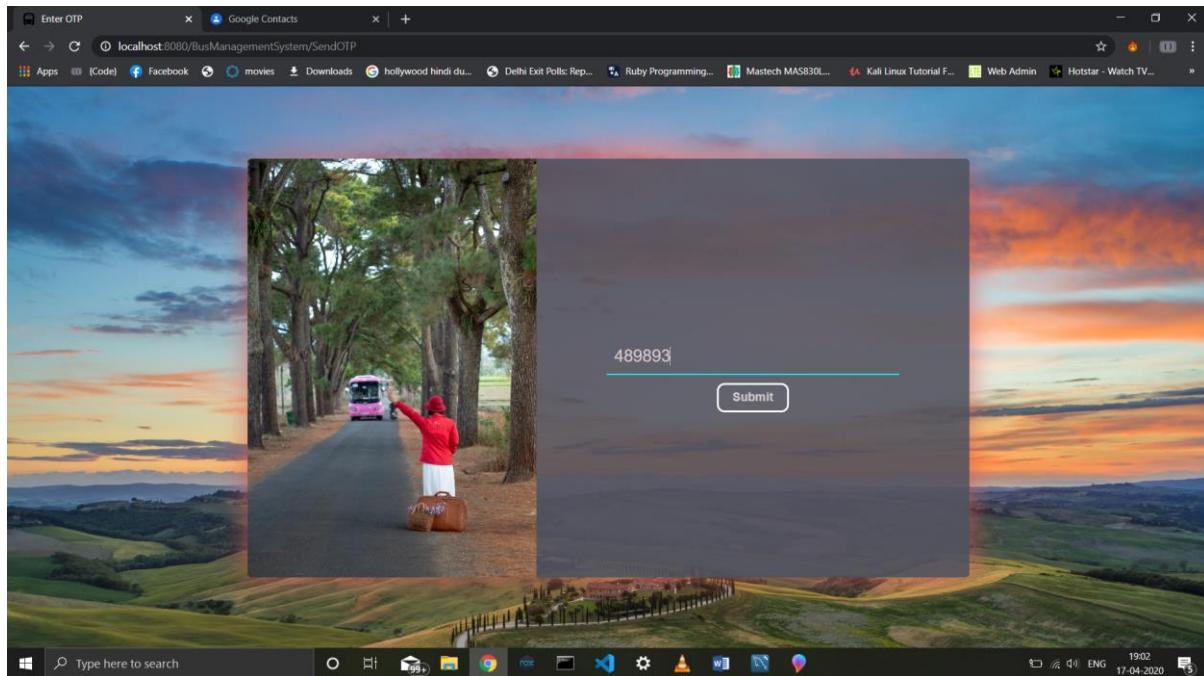
489893

Reply

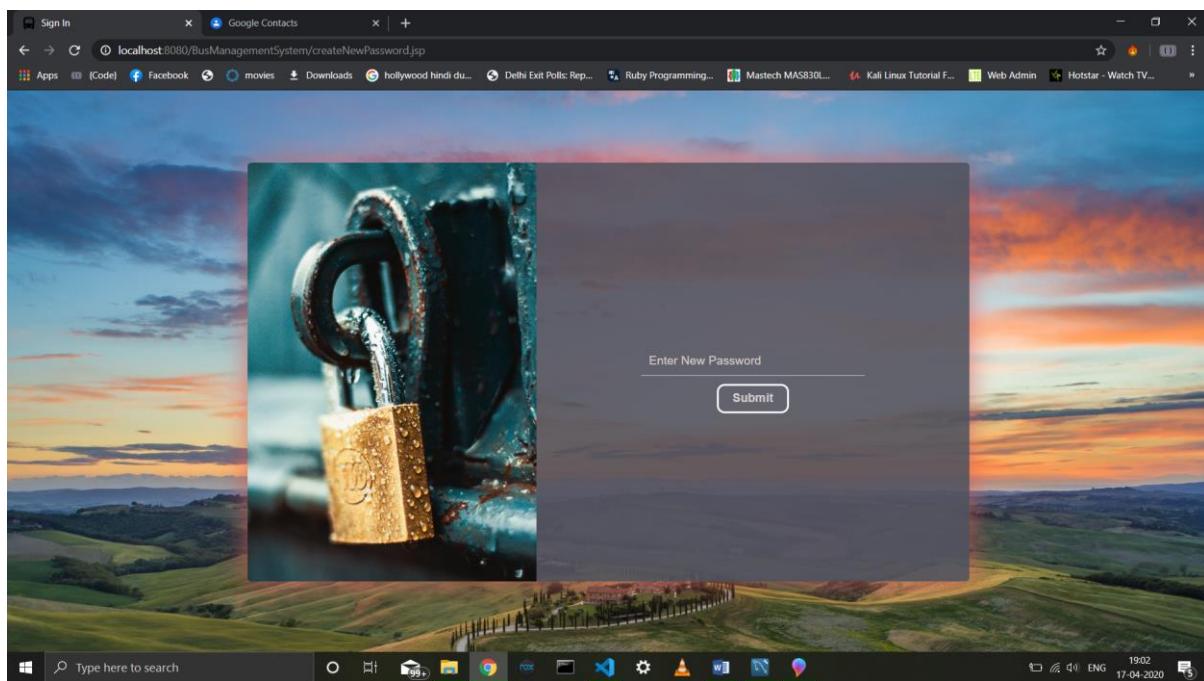
Reply all

Forward

Entering OTP...

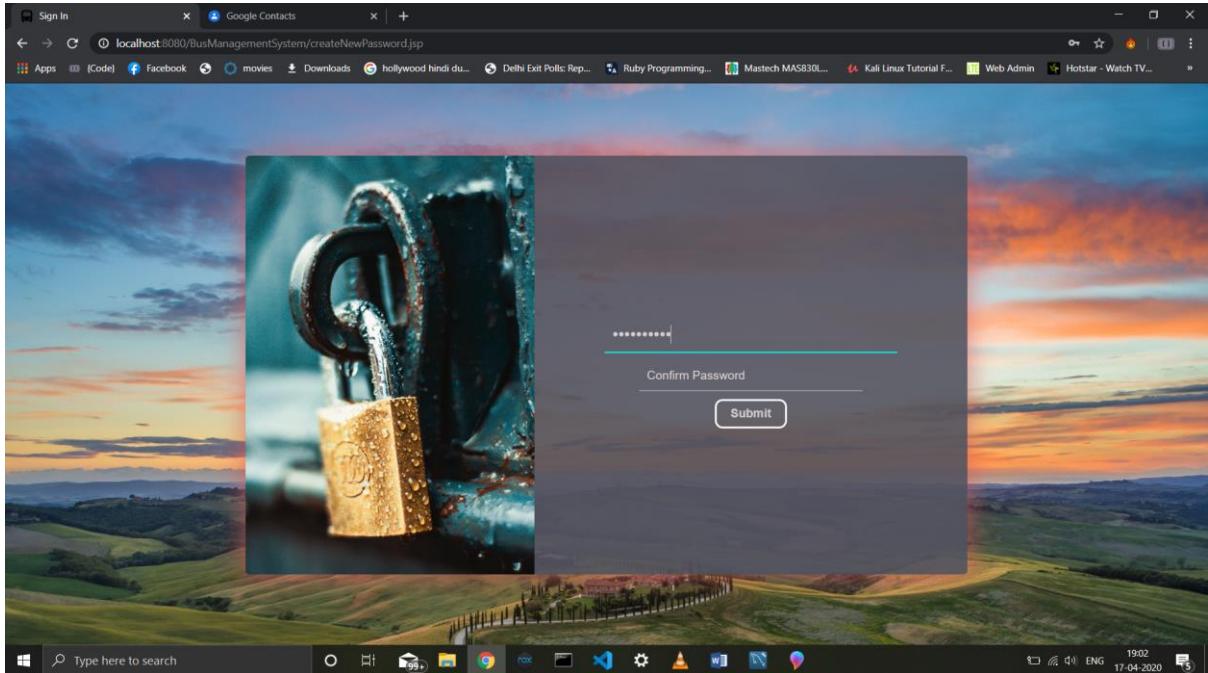


Prompt for create a new password

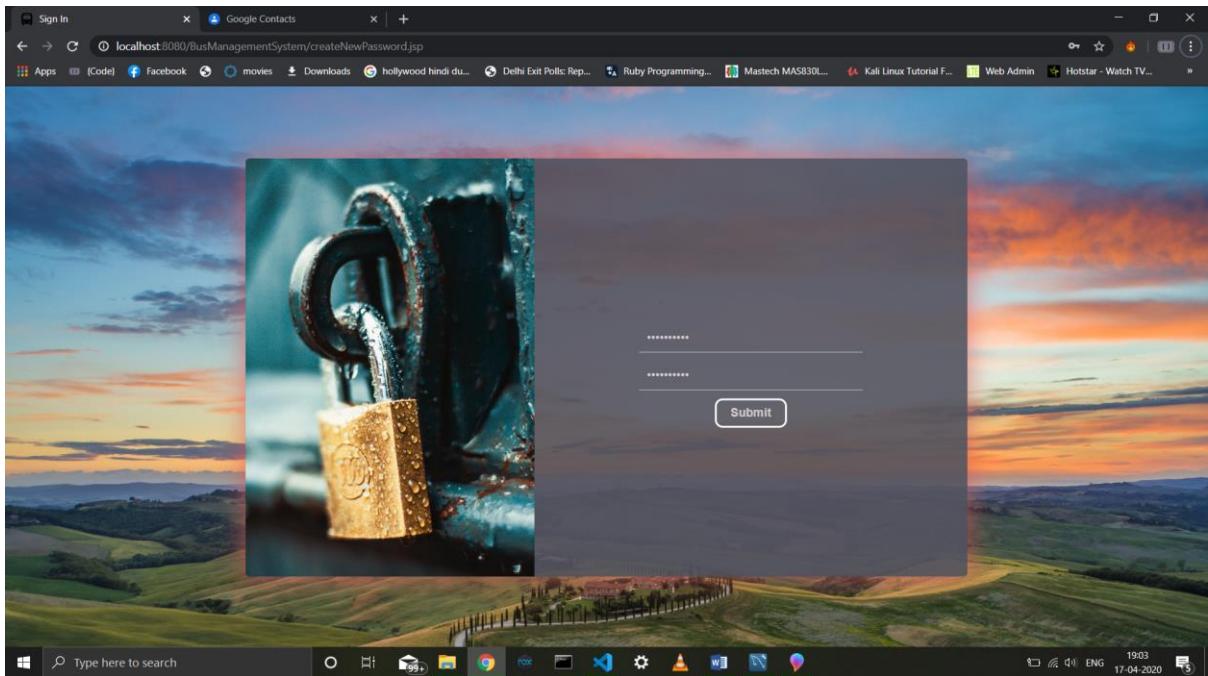


Creating new password

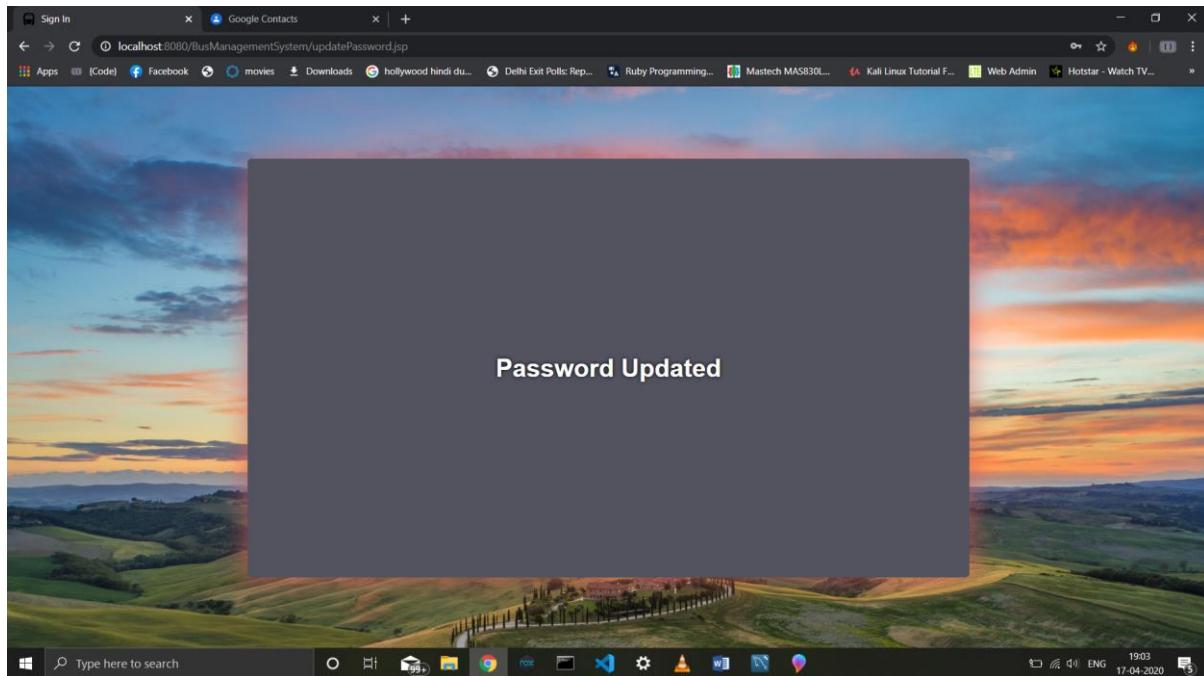
New Password: **MRTN_influ**



Confirming Passoword



Password Updated



Database before password update

A screenshot of MySQL Workbench. The 'passanger' table is selected in the 'Tables' section of the Navigator. A query window titled 'Query 1' contains the SQL command 'SELECT * FROM passanger;'. The result grid shows five rows of data. The 'password' column for the second row ('himanshu32301@gmail.com') is highlighted with a red box. The columns are labeled: email, name, phone, password, walletBalance, and profilePic.

email	name	phone	password	walletBalance	profilePic
freelancerkulsum@gmail.com	Suma	9999999999	1234	90	
himanshu32301@gmail.com	Influencer	9990207601	password	700	
jaat39157@gmail.com	Rahul	1234567890	12345	5	
knishant114@gmail.com	Aman Bhai	962559000	1234	170	

After Update

A screenshot of MySQL Workbench showing the same database state as the previous screenshot, but with a different value in the 'password' column. The 'password' column for the second row ('himanshu32301@gmail.com') now contains the value 'MRTN_influ', which is highlighted with a red box. The rest of the table structure and data remain the same.

email	name	phone	password	walletBalance	profilePic
freelancerkulsum@gmail.com	Suma	9999999999	1234	90	
himanshu32301@gmail.com	Influencer	9990207601	MRTN_influ	700	
jaat39157@gmail.com	Rahul	1234567890	12345	5	
knishant114@gmail.com	Aman Bhai	962559000	1234	170	

Source Code

updatePassword.jsp

```
<%@page import="java.sql.*"%>
<%
    String password = request.getParameter("newPassword");
    String email = (String)session.getAttribute("emailForOTP");
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
        st = con.createStatement();
        String query = "select 'admin' as tablename from admin where email = '"+email+"' union select
'passanger' as tablename from passanger where email = '"+email+"' union select 'conductor' as table
name from conductor where email = '"+email+"' union select 'ticketchecker' as tablename from ticketch
ecker where email = '"+email+"'";
        rs = st.executeQuery(query);
        rs.next();
        query = "update "+rs.getString("tablename)+" set password = '"+password+"' where email = '"+e
mail+"'";
        st.executeUpdate(query);
    %>
    <head>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <meta http-equiv="X-UA-Compatible" content="ie=edge">
        <meta http-equiv="refresh" content="3;url=authentication.jsp" />
        <link rel="stylesheet" href="styles/style.css">
        <link rel="stylesheet" href="styles/authentication.css">
        <link rel="icon" href="images/icon.png">
        <title>Password Updated</title>
        <style>
            .container
            {
                background-color: rgb(83, 83, 95)
            }
            h1
            {
                color: white;
                text-shadow: 0px 0px 5px black;
                text-align: center;
                position: relative;
                top: 50%;
                transform: translateY(-50%);
            }
        </style>
    </head>
    <body>
        <div class="container">
            <h1>Password Updated<h1>
        </div>
    </body>
    <script src="scripts/authentication.js"></script>
</html>
<%
}
catch(Exception e){ out.print(e.getMessage()); }
%>
```

createNewPassword.jsp

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
    <link rel="icon" href="images/icon.png">
    <title>Create New Password</title>
</head>
<body>
    <div class="container">
        <div class="imageDiv" style="background-image: url('images/lock.jpg')">
        </div>
        <div class="workspace">
            <form action="updatePassword.jsp" method="POST" onsubmit="return mathcPassword();">
                <input type="password"
                    name="newPassword"
                    id="newPassword"
                    placeholder="Enter New Password"
                    onkeyup="confirmPasswordField(this.value.length)">

                <input type="hidden" placeholder="Confirm Password" id="confirmPassword">
                <input type="submit">
            </form>
        </div>
    </div>
</body>
<script src="scripts/authentication.js"></script>
<script>
    function mathcPassword()
    {
        if(document.getElementById("newPassword").value != document.getElementById("confirmPassword").value)
        {
            document.getElementById("confirmPassword").value = "";
            document.getElementById("confirmPassword").placeholder = "Passwords didn't match!";
            document.getElementById("confirmPassword").style.borderBottom = "1.9px solid rgb(241, 101, 7)";
            return false;
        }
        else
            return true;
    }
</script>
</html>
```

addFeedback.jsp

This module is for saving the feedbacks of the user.

The process in which part of the output of a system is returned to its input in order to regulate its further output.

The image consists of two vertically stacked screenshots of a web application interface. Both screenshots show a header with the logo 'Shivaji Roadways' and a menu bar with links for Home, About, Policies, and login. The main content area features a large circular graphic with the text 'Is The best Revenge' and 'find it..'. Below this are two testimonial boxes:

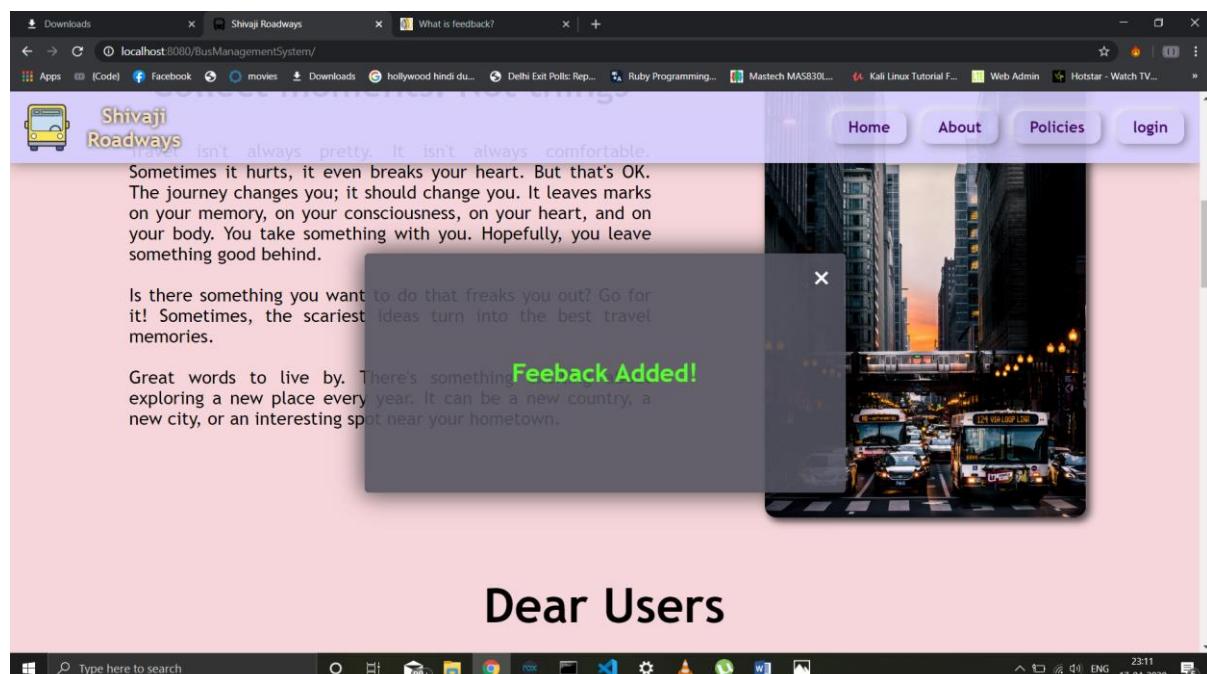
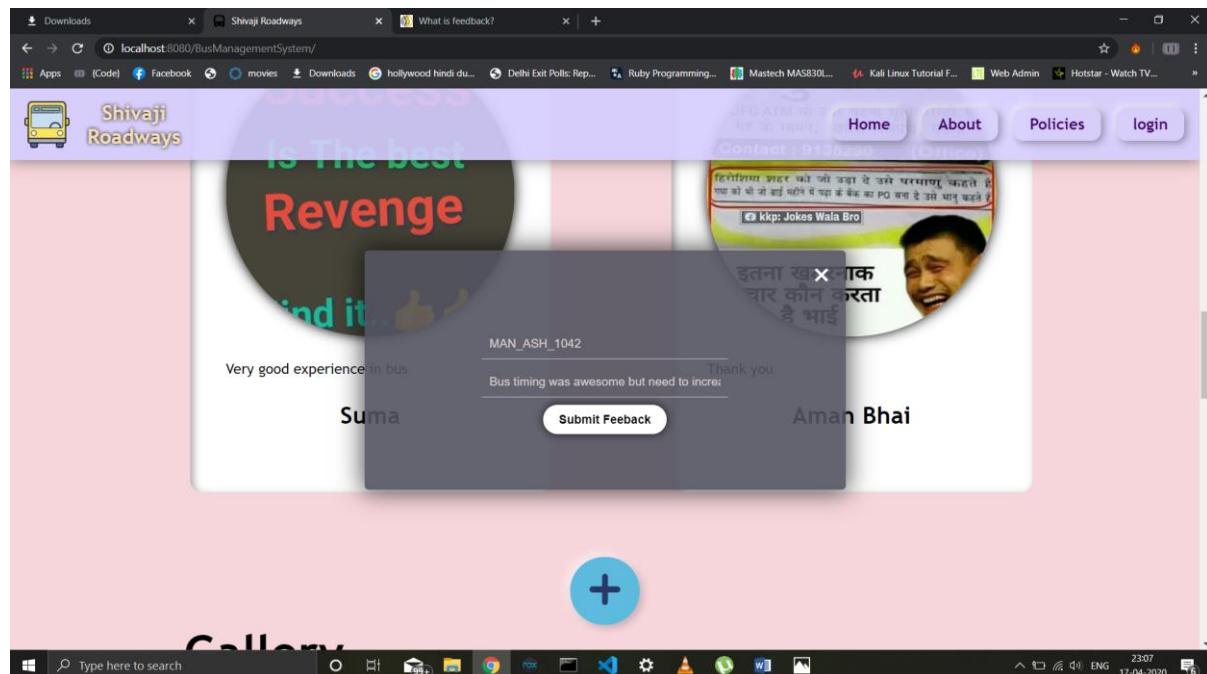
- Suma:** 'Very good experience in bus' - 'Thank you'
- Aman Bhai:** 'इतना खतरनाक चार कौन करता है भाई' (This is such a dangerous move, who does it? Brother)

In the first screenshot, a red arrow points to a blue square button with a white plus sign (+) located below the testimonial boxes. In the second screenshot, a modal dialog box is open over the same area, containing fields for 'Ticket No.' and 'Feedback', and a 'Submit Feedback' button. The blue plus sign button is also visible at the bottom center of the page.

Parameters:

Ticket No: MAN_ASH_1042

Feedback: Bus timing was awesome but need to increase hygienic environment in the buses



Bus timing was awesome but need to increase hygienic environment in the buses

Influencer

Very good experience in bus

Suma

Entry Added into Database

1. SELECT * FROM ticketOutput;

bookingDate	ticketNo	routeNo	source	destination	type	email	noOfP:	fare	feedback
03/14/2020 13:11:52	Man_Ash1029	971	Mandoli X-ing	Ashok Vihar...	AC	knishant114@gmail.com	1	25	
03/14/2020 15:08:44	New_Ana1030	GL22	New Delhi R...	Anand Vihar...	AC	freelancerkulsum@gmail...	1	20	
03/14/2020 15:09:00	New_Has1031	GL22	New Delhi R...	Hasan Pur ...	ORD	freelancerkulsum@gmail...	1	10	harmo
03/15/2020 11:43:58	Mod_See1032	971	Model Town II	Seema Pur...	ORD	jaa39157@gmail.com	1	15	
03/15/2020 11:44:23	Ana_Roh1033	971	Anand Vhar...	Rohini Sect...	AC	jaa39157@gmail.com	1	25	
03/15/2020 11:44:57	Ana_See1034	971	Anand Vhar...	Seema Pur...	ORD	jaa39157@gmail.com	1	5	
03/15/2020 12:32:24	Bha_Ash1035	971	Bhajanpura	Ashok Vhar...	AC	himanshu32301@gmail...	2	40	Bus timing was awesome but need to increase hygienic environment in the ...
03/15/2020 12:34:39	Mod_Bha1036	971	Model Town II	Bhajanpura	ORD	himanshu32301@gmail...	1	10	
03/16/2020 19:07:20	Nan_Ana1037	33	Nand Nagri	Anand Vhar...	ORD	knishant114@gmail.com	1	10	
03/18/2020 00:28:27	Del_Nir1038	7	Delhi Gate	Nirankari C...	ORD	knishant114@gmail.com	1	15	
03/19/2020 11:13:10	Rek_Ken1039	RL79	Regal	Kendriya T...	ORD	knishant114@gmail.com	1	5	
03/20/2020 23:54:56	Ram_Olk1040	17	Ramjanpur ...	Old Delhi R...	AC	knishant114@gmail.com	13	325	Thank you
03/21/2020 16:00:09	Req_Zak1041	GL90	Regal	Zakhira	ORD	freelancerkulsum@gmail...	1	10	Very good experience in bus
04/16/2020 14:26:18	Man_Ash1042	971	Mandoli X-ing	Ashok Vihar...	AC	himanshu32301@gmail...	2	50	Bus timing was awesome but need to increase hygienic environment in the...

Source Code

```
<%@page import="java.sql.*"%>
<%
String ticketNo = request.getParameter("ticketNo");
String feedback = request.getParameter("feedback");

Connection con = null;
Statement st = null;
try
{
    Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
    st = con.createStatement();
    String query = "update ticket set feedback='"+feedback+"' where ticketNo='"+ticketNo+"'";
    if(st.executeUpdate(query) > 0)
    {
        out.print("Feeback Added!");
    }
    else
        out.print("Invalid Ticket No");
}
catch(Exception e){out.print(e.getMessage());}
%>
```

Source Code Without Output

Directory: BusManagementSystem/

authenticationAJAX.jsp

```
<%@page import="java.sql.*"%>
<%
    String email = request.getParameter("email");

    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
        st = con.createStatement();
        String query = "select profilePic from admin where email='"+email+"' union select profilePic f
rom passanger where email='"+email+"' union select profilePic from driver where email='"+email+"' unio
n select profilePic from conductor where email='"+email+"' union select profilePic from ticketchecker
where email='"+email+"'";
        rs = st.executeQuery(query);
        if(rs.next())
        {%>
            <div class="img" style="background-
image: url('./images/userProfile/<%=rs.getString("profilePic")%>');"></div>
        <%
    }
    catch(Exception e)
    {
        out.print(e.getMessage());
    }
%>
```

availableBusesAJAX2.jsp

```
<%@page import="java.sql.*"%>
<%
    String keyword = request.getParameter("keyword");
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
        st = con.createStatement();
        String query = "select distinct(standName) from routeStands where standName like '%"+keyword+"
%'";
        rs = st.executeQuery(query);
    }
    catch(Exception e)
    {
        out.print(e.getMessage());
    }
%>
```

```

%>
<%
    while(rs.next())
    {%
        <p onmouseover="setTo(this.innerText);"><%=rs.getString("standName")%></p>
    }
%>

```

changeLeaveStatus.jsp

```

<%@page import="java.sql.*"%>
<%
    String applicationNo = request.getParameter("applicationNo");
    String status = request.getParameter("status");

    Connection con = null;
    Statement st = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
        st = con.createStatement();
        String query = "update leave_request set status='"+status+"' where applicationNo = " + applica
tionNo;
        st.executeUpdate(query);
    }
    catch(Exception e){out.print(e.getMessage());}
%>

```

checkTicketAJAX.jsp

```

<%@page import="java.sql.*"%>
<%
    String ticketNo = request.getParameter("ticketNo");
    try
    {
        Integer.parseInt(ticketNo);
    }
    catch(Exception e){out.print(-1);}
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
        st = con.createStatement();
        String query = "select timestampdiff(HOUR ,bookingTime, current_timestamp()) as remainValidit
y from ticket where ticketNo = " + ticketNo;
        rs = st.executeQuery(query);
        if(rs.next())
        {
            out.print(rs.getString("remainValidity"));
        }
        else
        {
            out.print(-1);
        }
    }
    catch(Exception e)
    {e.getMessage();}
%>

```

estimatedTimeAJAX.jsp

```
<%@page import="java.sql.*"%>
<%
    String routeNo = request.getParameter("routeNo");

    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
        st = con.createStatement();
        String query = "select standName from routeStands WHERE routeNo = '" + routeNo + "'";
        rs = st.executeQuery(query);

    }
    catch(Exception e)
    {
        out.print(e.getMessage());
    }
%>
<option class="placeholder" value="" disabled selected style="color: rgb(214, 205, 205);">From</option>
<%
    for(int i =1 ; rs.next(); i++)
    {%
        <option value="<%=i%>"><%=rs.getString("standName")%></option>
    %}
%>
```

fareAJAX.jsp

```
<%@page import="java.sql.*"%>
<%
    int fare = 0;
    String routeNo = request.getParameter("routeNo");
    String sourceName = request.getParameter("source");
    String destinationName = request.getParameter("destination");
    String busType = request.getParameter("type");
    int no = Integer.parseInt(request.getParameter("noOfPassangers"));
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
        st = con.createStatement();
        String query = "select standNo from routestands where routeNo='"
            + routeNo + "' and standName=
' " + sourceName + "' union select standNo from routestands where routeNo='"
            + routeNo + "' and standNa
me=' " + destinationName + "';";
        rs = st.executeQuery(query);
        rs.next();
        int sourceNo = rs.getInt("standNo");
        rs.next();
        int destinationNo = rs.getInt("standNo");
        int destance = Math.abs(sourceNo - destinationNo);
        if(busType.equals("ORD"))
        {
            if(destance <= 2)
                fare = 5 * no;
            else if(destance <= 5)
```

```

        fare = 10 * no;
    else
        fare = 15 * no;
}
else if(busType.equals("AC"))
{
    if(destance <= 2)
        fare = 10 * no;
    else if(destance <= 4)
        fare = 15 * no;
    else if(destance <= 6)
        fare = 20 * no;
    else
        fare = 25 * no;
}
}
catch(Exception e){out.print(e.getMessage());}
%>
<%="#x20B9;"+fare%>
```

leaveRequestAJAX.jsp

```

<%@page import="java.sql.*"%>
<%
String reason = request.getParameter("reason");
String type = request.getParameter("type");
String date_from = request.getParameter("from");
String date_to = request.getParameter("to");
String address = request.getParameter("tempAddress");
String email = (String)session.getAttribute("email");

Connection con = null;
Statement st = null;

ResultSet rs = null;
try
{
    Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
    st = con.createStatement();
    String query = "insert into leave_request(reason, type, date_from, date_to, address, email, st
atus) values('"+reason+"', '"+type+"', '"+date_from+"', '"+date_to+"', '"+address+"', '"+email+"', 'pe
nding');";
    st.executeUpdate(query);
    query = "select applicationNo from leave_request where email = '"+email+"' order by applicatio
nNo desc limit 1";
    rs = st.executeQuery(query);
    if(rs.next())
        out.print("Application no: " + rs.getInt("applicationNo"));
}
catch(Exception e){out.print(e.getMessage());}
%>
```

OTPnotMatched.jsp

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <meta http-equiv="refresh" content="3;url=authentication.jsp" />
    <link rel="stylesheet" href="styles/style.css">
    <link rel="stylesheet" href="styles/authentication.css">
```

```

<link rel="icon" href="images/icon.png">
<title>OTP Not Matched</title>
<style>
    .container
    {
        background-color: #53535B;
    }
    h1
    {
        color: white;
        text-shadow: 0px 0px 5px black;
        text-align: center;
        position: relative;
        top: 50%;
        transform: translateY(-50%);
    }
</style>
</head>
<body>
    <div class="container">
        <h1>OTP didn't matched<h1>
    </div>
</body>
<script src="scripts/authentication.js"></script>
</html>

```

paySalaryAJAX.jsp

```

<%@page import="java.sql.*"%>
<%
    String payee = request.getParameter("payee");
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
        st = con.createStatement();
        String query = "select email from Driver where email like '%"+payee+"%' union select email fro
m conductor where email like '%"+payee+"%' union select email from ticketchecker where email like '%+
payee+"%;";
        rs = st.executeQuery(query);
    }
    catch(Exception e)
    {
        out.print(e.getMessage());
    }
%>
<%
    while(rs.next())
    {%
        <p onmouseover="setPayee(this.innerText);"><%=rs.getString("email")%></p>
    %}
%>

```

paySalaryAJAX2.jsp

```
<%@page import="java.sql.*"%>
<%
    String payee = request.getParameter("payee");
    String amount = request.getParameter("amount");
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
    ");
        st = con.createStatement();
        String query = "insert into salary(email, amount) values('"+payee+"', "+amount+ ")";
        if(st.executeUpdate(query) > 0)
            out.print("Paid");
    }
    catch(Exception e)
    {e.getMessage();}%
%>
```

routeAJAX.jsp

```
<%@page import="java.sql.*" %>
<%
    String r = request.getParameter("routeNo");
    Connection con = null;
    Statement st = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
    ");
        st = con.createStatement();
        String query = "SELECT source, destination FROM route WHERE routeNo = '" + r + "'";
        rs = st.executeQuery(query);
    }
    catch(Exception e)
    {
        out.print(e.getMessage());
    }
    rs.next();
%>
<p><%=rs.getString("source")%></p>
<p><b>=↕</b></p>
<p><%=rs.getString("destination")%></p>
```

routeAJAX2.jsp

```
<%@page import="java.sql.*" %>
<%
String r = request.getParameter("routeNo");
Connection con = null;
Statement st = null;
ResultSet rs = null;
try
{
    Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
    st = con.createStatement();
    String query = "select standNo, standName from routeStands where routeNo = '" + r + "' ;";
    rs = st.executeQuery(query);
    while(rs.next())
    {
        <p><%=rs.getInt("standNo") + "    "%><%=rs.getString("standName")%></p>
    }
}
catch(Exception e)
{
    out.print(e.getMessage());
}
%>
```

ticketAJAX.jsp

```
<%@page import="java.sql.*" %>
<%
String routeNo = request.getParameter("routeNo");

Connection con = null;
Statement st = null;
ResultSet rs = null;
try
{
    Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/shivajiroadways", "root", "1234
");
    st = con.createStatement();
    String query = "select standName from routeStands WHERE routeNo = '" + routeNo + "' ;";
    rs = st.executeQuery(query);

}
catch(Exception e)
{
    out.print(e.getMessage());
}
%>
<option class="placeholder" value="" disabled selected >From</option>
<%
while(rs.next())
{
    <option><%=rs.getString("standName")%></option>
}
%>
```

Directory: BusManagementSystem/Scripts

authentication.js

```
var toggleState=1;

{
    document.title="Sign In";
    var sin=document.getElementById('sin').style;
    var sup=document.getElementById('sup').style;
    var fp=document.getElementById('fp').style;
    sup.color="rgb(207, 201, 195)";
    sin.color="white";
    fp.color="rgb(207, 201, 195)";

    sup.borderBottomColor="";
    sin.borderBottomColor="aquamarine";
    fp.borderBottomColor="";
}

function toggleFun(selected)
{
    if(toggleState==1)
    {
        if(selected=="sup")
        {
            toggleState=2;
            document.title="Sign Up";
            var screen=document.getElementById("formContainer");

            screen.className='';
            screen.classList.add("shiftLeft1");

            {
                var sin=document.getElementById('sin').style;
                var sup=document.getElementById('sup').style;
                var fp=document.getElementById('fp').style;
                sin.color="rgb(207, 201, 195)";
                sup.color="white";
                fp.color="rgb(207, 201, 195)";

                sin.borderBottomColor="";
                sup.borderBottomColor="aquamarine";
                fp.borderBottomColor="";
            }
        }
        else if(selected=="fp")
        {
            toggleState=3;
            document.title="Forget Password";

            var screen=document.getElementById("formContainer");
            screen.className='';
            screen.classList.add("shiftdLeft1");

            {
                var sin=document.getElementById('sin').style;
                var sup=document.getElementById('sup').style;
                var fp=document.getElementById('fp').style;
                sin.color="rgb(207, 201, 195)";
                fp.color="white";
                sup.color="rgb(207, 201, 195)";
            }
        }
    }
}
```

```

        sin.borderBottomColor="";
        fp.borderBottomColor="aqua";
        sup.borderBottomColor="";
    }

}

else if(toggleState==2)
{

if(selected=="sin")
{
    toggleState=1;
    document.title="Sign In";
    var screen=document.getElementById("formContainer");
    screen.className='';
    screen.classList.add("shiftRight2");

    {
        var sin=document.getElementById('sin').style;
        var sup=document.getElementById('sup').style;
        var fp=document.getElementById('fp').style;
        sup.color="rgb(207, 201, 195)";
        sin.color="white";
        fp.color="rgb(207, 201, 195)";

        sup.borderBottomColor="";
        sin.borderBottomColor="aqua";
        fp.borderBottomColor="";
    }
}
else if(selected=="fp")
{
    toggleState=3;
    document.title="Forget Password";
    var screen=document.getElementById("formContainer");
    screen.className='';
    screen.classList.add("shiftLeft2");

    {
        var sin=document.getElementById('sin').style;
        var sup=document.getElementById('sup').style;
        var fp=document.getElementById('fp').style;
        sin.color="rgb(207, 201, 195)";
        fp.color="white";
        sup.color="rgb(207, 201, 195)";

        sin.borderBottomColor="";
        fp.borderBottomColor="aqua";
        sup.borderBottomColor="";
    }
}
else if(toggleState==3)
{   if(selected=="sup")
    {
        toggleState=2;
        document.title="Sign Up";
        var screen=document.getElementById("formContainer");
        screen.className='';
        screen.classList.add("shiftRight3");

        {
            var sin=document.getElementById('sin').style;
            var sup=document.getElementById('sup').style;
            var fp=document.getElementById('fp').style;
            sin.color="rgb(207, 201, 195)";
            sup.color="white";
            fp.color="rgb(207, 201, 195)";

            sin.borderBottomColor="";
            sup.borderBottomColor="aqua";
            fp.borderBottomColor="";
        }
    }
}
}

```

```

        }
    }
    else if(selected=="sin")
    {
        toggleState=1;
        document.title="Sign In";
        var screen=document.getElementById("formContainer");
        screen.className='';
        screen.classList.add("shiftdRight3");

        {
            var sin=document.getElementById('sin').style;
            var sup=document.getElementById('sup').style;
            var fp=document.getElementById('fp').style;
            sup.color="rgb(207, 201, 195)";
            sin.color="white";
            fp.color="rgb(207, 201, 195)";

            sup.borderBottomColor="";
            sin.borderBottomColor="aquamarine";
            fp.borderBottomColor="";
        }
    }
}

function toggleFields(field)
{
    if(field=="Conductor" || field=="Ticket Checker" || field=="Driver")
    {
        document.getElementById("joiningDate").style.display="block";
    }
    else
    {
        document.getElementById("joiningDate").style.display="none";
    }
    if(field=="Passanger")
    {
        document.getElementById("walletBalance").style.display="block";
    }
    else
    {
        document.getElementById("walletBalance").style.display="none";
    }
    if(field=="Driver")
    {
        document.getElementById("licenceNo").style.display="block";
        document.getElementById("experience").style.display="block";
    }
    else
    {
        document.getElementById("licenceNo").style.display="none";
        document.getElementById("experience").style.display="none";
    }
}
function confirmPasswordField(len)
{
    if(len>4)
    {
        document.getElementById("confirmPassword").type="password";
    }
    else
    {
        document.getElementById("confirmPassword").value="";
        document.getElementById("confirmPassword").type="hidden";
    }
}

```

disable.js

```
function disableTo(value, len)
{
    var destination = document.getElementsByName('destination')[0];
    for(i = 1; i < len; i++)
    {
        if(destination[i].value == value)
            destination[i].disabled = true;
        else
            destination[i].disabled = false;
    }
}
function disableFrom(value, len)
{
    var source = document.getElementsByName('source')[0];
    for(i = 1; i < len; i++)
    {
        if(source[i].value == value)
            source[i].disabled = true;
        else
            source[i].disabled = false;
    }
}
```

leave.js

```
function setDates()
{
    var today = new Date();
    var dd = today.getDate();
    var mm = today.getMonth() + 1;
    var yyyy = today.getFullYear();
    if (dd < 10)
    {
        dd = '0' + dd;
    }
    if (mm < 10)
    {
        mm = '0' + mm;
    }
    var from = document.getElementById('from')
    var to = document.getElementById('to')
    from.value = to.value = from.min = to.min = yyyy+"-"+mm+"-"+dd;
}
function updateMin(value)
{
    var min = document.getElementById('to').min;
    if(min < value)
    {
        document.getElementById('to').value = value;
    }
    document.getElementById('to').min = value;
}
```

navPannel.js

```
window.onscroll=function()
{
    var nav=document.getElementsByClassName("navPannel")[0].style;
    var link=document.getElementsByClassName("link");
    var logoHeading=document.getElementsByClassName("logoHeading")[0].style;
    if(!window.pageYOffset )
    {

        nav.backgroundColor="rgba(0, 0, 0, 0)";
        nav.boxShadow="none";
        logoHeading.textShadow="none";
        for(i=0; i<link.length; i++)
        {
            link[i].style.boxShadow="none";
            link[i].style.color="wheat";

            link[i].onmouseover = function() {
                this.style.color = "black";
                this.style.backgroundColor = "var(--bodyColor)";
            }
            link[i].onmouseout = function() {
                this.style.color = "wheat";
                this.style.backgroundColor = "rgba(0, 0 , 0, 0)";
            }
        }
    try
    {
        var userImg=document.getElementsByClassName("userImg")[0].style;
        var userName=document.getElementsByClassName("userName")[0].style;
        userName.textShadow="none";
        userImg.borderRadius="5vw";
    }
    catch
    {

    }
}
else
{
    nav.backgroundColor="var(--navBackgroundColor)";
    nav.boxShadow="0px 0px 20px rgba(0, 0, 0, 0.5)";
    logoHeading.textShadow="0px 0px 5px black";
    for(i=0; i<link.length; i++)
    {
        link[i].style.boxShadow="var(--navLinkBoxShadow)";
        link[i].style.color="rgb(63, 0, 99)";

        link[i].onmouseover = function() {
            this.style.color = "black";
            this.style.backgroundColor = "rgba(0, 0 , 0, 0)";
        }
        link[i].onmouseout = function() {
            this.style.color = "rgb(63, 0, 99)";
            this.style.backgroundColor = "rgba(0, 0 , 0, 0)";
        }
    }
}
try
{
    var userImg=document.getElementsByClassName("userImg")[0].style;
    var userName=document.getElementsByClassName("userName")[0].style;
    userName.textShadow="0px 0px 5px black";
    userImg.borderTopLeftRadius="0";
    userImg.borderTopRightRadius="0";
}
catch{}
}
function elemFocused(element){}
```

```
if(window.pageYOffset )  
{  
    element.style.boxShadow="var(--NavLinkBoxShadowInset)";  
}  
}  
function elemBlurred(element){  
    element.style.boxShadow="none";  
}
```

validate.js

```
var errorColor = "rgb(241, 101, 7);  
-----Validating name-----  
  
function validateName()  
{  
    var isValid = false;  
    var name = document.getElementsByName("name")[0];  
    if(name.value == "")  
    {  
  
        name.placeholder = "Please insert name!";  
        name.style.borderBottom = "1.9px solid "+errorColor;  
    }  
    else if(name.value.length > 20)  
    {  
        name.style.borderBottom = "1.9px solid "+errorColor;  
        name.value = "";  
        name.placeholder = "Max 20 characters allow!"  
    }  
    else  
    {  
        name.style.borderBottom = "1.9px solid aqua";  
        name.placeholder = "Name";  
        isValid = true;  
    }  
    return isValid;  
}  
-----Validating email-----  
  
function validateEmail(num)  
{  
    var isValid = false;  
    var email=document.getElementsByName("email")[num];  
    var dotpos=email.value.lastIndexOf(".");  
    var atpos=email.value.lastIndexOf("@");  
  
    if(email.value == "")  
    {  
  
        email.placeholder = "Please insert email!";  
        email.style.borderBottom = "1.9px solid "+errorColor;  
    }  
    else if(dotpos==-1 || atpos==-1 || dotpos-atpos<4)  
    {  
        email.style.borderBottom = "1.9px solid "+errorColor;  
        email.value = "";  
        email.placeholder = "Invalid Email!"  
    }  
    else  
    {  
        var param = "?email=" + email.value;  
        param = param.replace("+", "%2b")  
  
        var xmlhttp = new XMLHttpRequest();  
        xmlhttp.open("POST", "authenticationAJAX.jsp" + param, false);  
  
        xmlhttp.onreadystatechange = function(){  
            if(num == 0)  
            {  
                if(xmlhttp.responseText.length < 4)  
                {  
                    email.style.borderBottom = "1.9px solid aqua";  
                    email.placeholder = "Email";  
                    isValid = true;  
                }  
            }  
        }  
    }  
}
```

```

        else
        {
            email.style.borderBottom = "1.9px solid "+errorColor;
            email.value = "";
            email.placeholder = "Email already exist!";
        }
    }
    if(num == 1)
    {
        if(xmlhttp.responseText.length > 4)
        {
            email.style.borderBottom = "1.9px solid aqua";
            email.placeholder = "Email";
            isValid = true;
        }
        else
        {
            email.style.borderBottom = "1.9px solid "+errorColor;
            email.value = "";
            email.placeholder = "Email doesn't exist!";
        }
    }
    xmlhttp.send();
}
return isValid;
}

//-----Validating phone-----
-----
```

```

function validatePhone()
{
    var isValid = false;
    var phone = document.getElementsByName("phone")[0];
    if(phone.value == "")
    {

        phone.placeholder = "Please insert phone!";
        phone.style.borderBottom = "1.9px solid "+errorColor;
    }
    else if(phone.value.length == 10 && !isNaN(phone.value))
    {
        phone.style.borderBottom = "1.9px solid aqua";
        phone.placeholder = "Phone";
        isValid = true;
    }
    else
    {
        phone.style.borderBottom = "1.9px solid "+errorColor;
        phone.value = "";
        phone.placeholder = "Value should be 10 digit Numerical";
    }
    return isValid;
}

//-----Validating Password-----
-----
```

```

function validatePassword(num)
{
    var isValid = false;
    var p = document.getElementsByName("password")[num];
    if(p.value == "" && p.value.length <= 0)
    {
        p.placeholder = "Please insert password!";
        p.style.borderBottom = "1.9px solid "+errorColor;
    }
    else if(p.value.length < 4)
    {
        p.value = "";
        p.placeholder="Password Should at least 4 digit!";
        p.style.borderBottom = "1.9px solid "+errorColor;
    }
    else

```

```

        {
            p.style.borderBottom = "1.9px solid aqua";
            p.placeholder = "Password";
            isValid = true;
        }
        return isValid;
    }

//-----Validate Role-----
-----

function validateRole()
{
    var isValid = false;
    var role = document.getElementById("role");
    if(role.value == "")
    {
        role.style.border = "1.9px solid "+errorColor;
    }
    else
    {
        role.style.border = "1.9px solid aqua";
        isValid = true;
    }
    return isValid;
}

//-----Validate wallet balance-----
-----

function validateWalletBal()
{
    var isValid = false;
    var bal = document.getElementsByName("walletBalance")[0];
    if(bal.value == "")
    {

        bal.placeholder = "Please insert balance!";
        bal.style.borderBottom = "1.9px solid "+errorColor;
    }
    else if(bal.value.length < 7 && isNaN(bal.value))
    {
        bal.style.borderBottom = "1.9px solid aqua";
        bal.placeholder = "Wallet Balance";
        isValid = true;
    }
    else
    {
        bal.style.borderBottom = "1.9px solid "+errorColor;
        bal.value = "";
        bal.placeholder = "Should be in numbers < 7 digit";
    }
    return isValid;
}

//-----Validating licence-----
-----

function validateLicence()
{
    var isValid = false;
    var licence = document.getElementsByName("licenceNo")[0];
    if(licence.value == "")
    {

        licence.placeholder = "Please insert licence no.!";
        licence.style.borderBottom = "1.9px solid "+errorColor;
    }
    else if(licence.value.length == 10)
    {
        licence.style.borderBottom = "1.9px solid aqua";
        licence.placeholder = "Licence";
        isValid = true;
    }
}

```

```

        else
        {
            licence.style.borderBottom = "1.9px solid "+errorColor;
            licence.value = "";
            licence.placeholder = "Licence should be 10 digit alphanumeric";
        }
        return isValid;
    }

//-----Validating experience-----
-----

function validateExperience()
{
    var isValid = false;
    var exp = document.getElementsByName("experience")[0];
    if(exp.value == "")
    {

        exp.placeholder = "Please tell us your experience!";
        exp.style.borderBottom = "1.9px solid "+errorColor;
    }
    else if(exp.value.length <= 2 && isNaN(exp.value))
    {
        exp.style.borderBottom = "1.9px solid aqua";
        exp.placeholder = "Experience";
        isValid = true;
    }
    else
    {
        exp.style.borderBottom = "1.9px solid "+errorColor;
        exp.value = "";
        exp.placeholder = "Experiece: 0 - 99 years";
    }
    return isValid;
}

//-----Validating Joining Date-----
-----

function validateJoiningDate()
{
    var isValid = false;
    var jd = document.getElementById("joiningDate");
    if(jd.value == "")
    {
        jd.style.border = "1.9px solid "+errorColor;
    }
    else
    {
        jd.style.border = "1.9px solid aqua";
        isValid = true;
    }
    return isValid;
}

function validateForm()
{
    var isValid = true;

    if(validateName() == false)
        isValid = false;
    if(validateEmail() == false)
        isValid = false;
    if(validatePhone() == false)
        isValid = false;

    if(validateRole())
    {
        var role = document.getElementById("role");

        if(role.value == 'Passanger')
        {

```

```
        if(validateWalletBal() == false)
            isValid = false;
    }
    else if(role.value == 'Driver')
    {
        if(validateLicence() == false)
            isValid = false;
        if(validateExperience() == false)
            isValid = false;
        if(validateJoiningDate() == false)
            isValid = false;
    }
    else if(role.value == 'Conductor')
    {
        if(validateJoiningDate() == false)
            isValid = false;
    }
    else if(role.value == 'Ticket Checker')
    {
        if(validateJoiningDate() == false)
            isValid = false;
    }
}
else
{
    isValid = false;
}
if(validatePassword(1) == false)
    isValid = false;
return isValid;
}
```

scrapRoute.py

```
import bs4
import requests

url = "https://www.mapsofindia.com/dtc-bus-route/"
data = requests.get(url)
soup = bs4.BeautifulSoup(data.text, 'html.parser')

table = soup.find_all('table')[1]
data = []
row = []

for tr in table.find_all('tr'):
    for td in tr.find_all('td'):
        row.append(td.text.strip())
    data.append(tuple(row))
    row = []

data.remove(('106A', 'Old Delhi Railway Station', 'Fatehpuri'))           #exception value cominig from url
data.remove(('OMS', 'Anand Vihar ISBT (Viveka Nand ISBT)', 'Anand Vihar ISBT (Viveka Nand ISBT)')) #exception value cominig from url

import mysql.connector
mydb = mysql.connector.connect(host = 'localhost', user = 'root', password = '1234', database = 'shiva_jiroadways')
cur = mydb.cursor()
query = "INSERT INTO Route(routeNo, source, destination) values(%s, %s, %s)"
cur.executemany(query, data)
mydb.commit()
print("Database updated")
```

scrapRouteStands.py

```
import bs4
import requests

url = "https://www.mapsofindia.com/dtc-bus-route/"
data = requests.get(url)
soup = bs4.BeautifulSoup(data.text, 'html.parser')
urls = []
count = 0

import mysql.connector
mydb = mysql.connector.connect(host = 'localhost', user = 'root', password = '1234', database = 'shiva_jiroadways')
cur = mydb.cursor()

def getURLs():
    global count
    table = soup.find_all('table')[1]
    for tr in table.find_all('tr'):
        a = tr.find_all('td')[0].find('a')
        urls.append((a.text.strip(), a['href']))
        count += 1
    urls.remove(('106A', 'https://www.mapsofindia.com/dtc-bus-route/route-for-106a.html'))    #exception value coming from url
    urls.remove(('OMS', 'https://www.mapsofindia.com/dtc-bus-route/route-for-oms.html'))      #exception value coming from url
    print('URL list created\n')

def fetchData(url):
    route = requests.get(url[1])
    soup = bs4.BeautifulSoup(route.text, 'html.parser')

    table = soup.find('table')
    firstTr = True
    for tr in table.find_all('tr'):
        if(firstTr):
            firstTr = False
            continue
        td = tr.find_all('td')
        if(td[0].text.strip() == url[0]):
            actualData = []
            print(td[0].text.strip())
            for span in td[1].find_all('span'):
                serial = span.text.strip().replace('.', "")
                standName = span.next_sibling.strip()
                actualData.append((serial, url[0], standName))
                print("\t", serial, standName)
            query = "INSERT INTO RouteStands(standNo, routeNo, standName) values(%s, %s, %s)"
            cur.executemany(query, actualData)
            mydb.commit()
        else:
            continue

    getURLs()
    for url in urls:
        fetchData(url)

print("\n\nAll the data added\n\n\t\t+\n\t\t| MAHNAT RANG LAAYI |")
print("\t\t+\n\t\t|\n\t\t+-----+\n\n")
```

Directory: BusManagementSystem/sql

admin.sql

```
create table Admin
(
    email varchar(50) not null primary key,
    name varchar(30),
    phone varchar(10),
    password varchar(20),
    profilePic BLOB,
    foreign key(email)
        references Email(email)
);
```

conductor.sql

```
create table Conductor
(
    email varchar(50) not null primary key,
    name varchar(30),
    phone varchar(10),
    password varchar(20),
    dob date,
    profilePic BLOB,
    foreign key(email)
        references Email(email)
);
```

driver.sql

```
create table Driver
(
    email varchar(50) not null primary key,
    name varchar(30),
    phone varchar(10),
    password varchar(20),
    licenceNo varchar(10),
    experience int,
    dob date,
    profilePic BLOB,
    foreign key(email)
        references Email(email)
);
```

email.sql

```
create table Email
(
    email varchar(50) primary key
);
```

salary.sql

```
create table Salary
(
    transactionNo int auto_increment primary key,
    email varchar(50),
    amount int,
    date timestamp DEFAULT CURRENT_TIMESTAMP,
    foreign key(email) references Email(email)
);
```

ticketChecker.sql

```
create table TicketChecker
(
    email varchar(50) not null primary key,
    name varchar(30),
    phone varchar(10),
    password varchar(20),
    dob date,
    profilePic BLOB,
    foreign key(email)
    references Email(email)
);
```

leave.sql

```
create table leave_request
(
    applicationNo int auto_increment primary key,
    reason varchar(50),
    type varchar(50),
    date_from date,
    date_to date,
    address varchar(100),
    status varchar(20),
    email varchar(50),
    foreign key(email)
    references Email(email)
);
```

policy.sql

```
create table Policy
(
    pNo int auto_increment primary key,
    pName varchar(20) not null,
    pDescription varchar(6000) not null
)
```

report.sql

```
create table Report
(
    reportNo int primary key auto_increment,
    routeNo varchar(50),
    standName varchar(255),
    busNo varchar(10),
    description varchar(999),
    submittedBy varchar(50),
    foreign key(submittedBy)
    references Email(email)
);
```

route.sql

```
CREATE TABLE Route
(
    serialNo int primary key auto_increment,
    routeNo varchar(50) unique,
    source varchar(255),
    destination varchar(255)
);
```

Passanger

```
create table Passanger
(
    email varchar(50) not null primary key,
    name varchar(30),
    phone varchar(10),
    password varchar(20),
    walletBalance int,
    profilePic BLOB,
    foreign key(email)
    references Email(email)
);
```

ticket.sql

```
create table ticket
(
    ticketNo int auto_increment primary key,
    routeNo varchar(50) not null,
    source varchar(255) not null,
    destination varchar(255) not null,
    email varchar(50),
    bookingTime timestamp DEFAULT CURRENT_TIMESTAMP,
    feedback varchar(999),
    type varchar(4),
    noOfpassangers int,
    fare int,
    foreign key(routeNo) references route(routeNo),
    foreign key(email) references passanger(email)
);
```

ticketOutput.sql

```
create view ticketOutput as
SELECT DATE_FORMAT(bookingTime, '%m/%d/%Y %H:%i:%S')
as bookingDate,
concat(substring(source, 1, 3),
      ',',
      substring(destination , 1, 3), ticketNo ) as ticketNo, routeNo,
source,
destination,
type,
email,
noOfPassangers,
fare,
feedback FROM ticket;
```

Directory: BusManagementSystem/styles

about.css

```
.innerContainer
{
    text-align: center;
}
.innerContainer h1
{
    color: white;
    font-size: 4vw;
    margin-top: 15vw;
}
.innerContainer p
{
    margin-top: 1vw;
    color: white;
}
.about
{
    border-radius: 1vw;
    box-shadow: 4px 4px 10px rgba(0, 0, 0, 0.356), -5px -5px 12px 0 rgba(255, 255, 255, 0.8);
    margin-top: 30vw;
    margin-bottom: 5vw;
    text-align: center;
    background-color: rgb(220, 220, 220);
    width: 80vw;
    position: relative;
    left: 50%;
    transform: translateX(-50%);
}
.about h1
{
    padding: 5vw;
    font-size: 4vw;
}
.about p
{
    font-size: 1.5vw;
    padding-left: 10vw;
    padding-right: 10vw;
    padding-bottom: 5vw;
    text-align: justify;
}
.leadership
{
    border-radius: 1vw;
    box-shadow: 4px 4px 10px rgba(0, 0, 0, 0.356), -5px -5px 12px 0 rgba(255, 255, 255, 0.8);
    margin-top: 5vw;
    margin-bottom: 5vw;
    text-align: center;
    background-color: rgb(220, 220, 220);
    width: 80vw;
    position: relative;
    left: 50%;
    height: 91vw;
    transform: translateX(-50%);
}
.leadership h1
{
    padding: 5vw;
    font-size: 4vw;
}
.leaderRow
```

```

{
    width: 100%;
}
.leader
{
    box-shadow: inset 4px 4px 10px rgba(0, 0, 0, 0.356), inset -5px -5px 12px 0 rgb(255, 255, 255);
    border-radius: 1vw;
    width: 32vw;
    margin: 4vw;
    float: left;
    height: 30vw;
}
.leader .leaderImg
{
    box-shadow: 4px 4px 10px rgba(0, 0, 0, 0.356), -5px -5px 12px 0 rgb(255, 255, 255);
    height: 8vw;
    width: 8vw;
    border-radius: 5vw;
    margin: 3vw auto;

    background-size: 100% 100%;
}
.leader h1
{
    font-size: 2.5vw;
    padding: 0;
}
.leader .aboutLeader
{
    margin-top: 20px;
    padding-left: 5vw;
    padding-right: 5vw;
    font-size: 1.1vw;
    text-align: justify;
}
.contacts
{
    border-radius: 1vw;
    box-shadow: 4px 4px 10px rgba(0, 0, 0, 0.356), -5px -5px 12px 0 rgba(255, 255, 255, 0.8);
    margin-top: 5vw;
    margin-bottom: 5vw;
    text-align: center;
    background-color: rgb(220, 220, 220);
    width: 80vw;
    position: relative;
    left: 50%;
    height: 29vw;
    transform: translateX(-50%);
}
.contacts h1
{
    padding: 5vw;
    font-size: 4vw;
}
.contacts table
{
    margin-left: 5vw;
    text-align: left;
    font-size: 2vw;
}

```

authentication.css

```
h1
{
    color: red;
}
/* ::-webkit-scrollbar
{
    display: none;
} */
body
{
    font-family: Arial, Helvetica, sans-serif;
    background-image: url("../images/formBackground.jpg"); /*Photo by Luca Micheli on Unsplash*/
    background-size: cover;
    background-repeat: no-repeat;
}
.container
{
    position: absolute;
    left: 50%;
    top: 50%;
    border-radius: 5px;
    transform: translate(-50%, -50%);
    box-shadow: 0 0 30px 4px rgba(216, 90, 90, 0.63);
    height: 35vw;
    width: 60vw;
}

.imageDiv
{
    float: left;
    border-top-left-radius: 5px;
    border-bottom-left-radius: 5px;
    background-image: url("../images/girl2.jpg");
    background-size: cover;
    width: 40%;
    height: 100%;
}
.workspace
{
    float: left;
    border-top-right-radius: 5px;
    border-bottom-right-radius: 5px;
    background-color: rgba(83, 83, 95, 0.90);
    overflow: hidden;
    width: 60%;
    height: 100%;
}
#abc
{
    color: green;
    background-color: blue;
}
.actionSelector
{
    /* background-color: red; */
    font-weight: bold;
    font-size: 1.2vw;
    text-align: center;
    margin: 0 auto;
    height: 7%;
}
.actionSelector div
{
    padding-top: 1vw;
    user-select: none;
    border-bottom: 0.3vw solid rgb(86, 129, 129);
    text-shadow: 0px 0px 5px black;
}
```

```

.signInMenu
{
    height: 100%;
    float: left;
    width: 33%;
    /* background-color: green; */
}
.signUpMenu
{
    float: left;
    height: 100%;
    width: 34%;
    /* background-color: red; */
}
.forgetPasswordMenu
{
    float: left;
    height: 100%;
    width: 33%;
}
.actionSelector :hover
{
    cursor: pointer;
}
#formContainer
{
    position: relative;
    float: left;
    /* background-color: orange; */
    height: calc(90% - 0.3vw);
    width: 300%;
}
.signIn
{
    float: left;
    height: 100%;
    width: 33.33%;
    /* background-color: red; */
}
.signUp
{
    float: left;
    height: 100%;
    width: 33.33%;
    /* background-color: green; */
}
.forgetPassword
{
    float: left;
    height: 100%;
    width: 33.33%;
    /* background-color: blue; */
}
.shiftLeft1
{
    animation-name: shiftL1;
    animation-duration: 1s;
    animation-fill-mode: forwards;
}
@keyframes shiftL1
{
    0%{
        transform: translateX(-33.33%);
    }
    100%{
        transform: translateX(-33.33%);
    }
}
.shiftdLeft1
{
    animation-name: shiftdL1;
}

```

```

        animation-duration: 2s;
        animation-fill-mode: forwards;
    }
@keyframes shiftdL1
{
    0%{

    }
    100%{
        transform: translateX(-66.67%);
    }
}

.shiftRight2
{
    animation-name: shiftR2;

    transform: translateX(-33.33%);
    animation-duration: 1s;
    animation-fill-mode: forwards;
}
@keyframes shiftR2
{
    0%{

    }
    100%{
        transform: translateX(0%);
    }
}

.shiftLeft2
{
    animation-name: shiftL2;

    transform: translateX(-33.33%);
    animation-duration: 1s;
    animation-fill-mode: forwards;
}
@keyframes shiftL2
{
    0%{

    }
    100%{
        transform: translateX(-66.67%);
    }
}

.shiftRight3
{
    animation-name: shiftR3;

    transform: translateX(-66.67%);
    animation-duration: 1s;
    animation-fill-mode: forwards;
}
@keyframes shiftR3
{
    0%{

    }
    100%{
        transform: translateX(-33.33%);
    }
}

.shiftdRight3
{
    animation-name: shiftdR3;
    transform: translateX(-66.67%);
    animation-duration: 2s;
    animation-fill-mode: forwards;
}
@keyframes shiftdR3
{
    0%{

    }
}

```

```

        100%{
            transform: translateX(0%);
        }
    }

form
{
    position: relative;
    top: 50%;
    transform: translateY(-50%);
    font-family: sans-serif;
    margin: 0 auto;
    width: 80%;
    /* background-color: yellow; */
}
form input[type="text"], form input[type="password"], form input[type="range"], form input[type="search"]
{
    display: block;
    outline: none;
    width: 60%;
    background: transparent;
    border: none;
    border-bottom: 1px solid rgb(197, 197, 197);
    font-size: 1vw;
    margin: 10px auto;
    padding: 10px;
    color: rgb(214, 205, 205);
    caret-color: rgb(214, 205, 205);
    animation-name: input2;
    animation-duration: 0.6s;
    animation-fill-mode: forwards;
}
form h1
{
    color: white;
    text-align: center;
    margin-bottom: 3vw;
}
form select
{
    display: block;
    outline: none;
    width: 65%;
    background: transparent;
    border: none;
    color: rgb(214, 205, 205);
    border: 1px solid rgb(197, 197, 197);
    font-size: 1vw;
    margin: 10px auto;
    padding: 10px;
    caret-color: rgb(214, 205, 205);
    animation-name: input2;
    animation-duration: 0.6s;
    animation-fill-mode: forwards;
}

input[type="date"]
{
    display: block;
    outline: none;
    width: 60%;
    display: none;
    background: transparent;
    border: none;
    color: rgb(214, 205, 205);
    border: 1px solid rgb(197, 197, 197);
    font-size: 1vw;
    margin: 10px auto;
    padding: 10px;
    caret-color: rgb(214, 205, 205);
    animation-name: input2;
    animation-duration: 0.6s;
    animation-fill-mode: forwards;
}

```

```

}

form select option
{
    display: block;
    outline: none;
    width: 65%;
    background-color: rgb(83, 83, 95);
    border: none;
    color: white;
    border: 1px solid rgb(197, 197, 197);

    font-size: 1vw;
    margin: 10px auto;
    padding: 10px;
    caret-color: rgb(214, 205, 205);
    animation-name: input2;
    animation-duration: 0.6s;
    animation-fill-mode: forwards;
}

form input[type="submit"], input[type="button"]
{
    display: block;
    outline: none;
    /* width: 60%; */
    background: transparent;
    color: rgb(214, 205, 205);
    border: 2px solid white;
    border-radius: 10px;
    font-size: 1vw;
    font-weight: bold;
    margin: 10px auto;
    padding: 8px 18px;
}
form input[type="submit"]:hover, form input[type="submit"]:focus, input[type="button"]:hover, input[type="button"]:focus
{
    position: relative;
    cursor: pointer;
    animation-name: submit;
    animation-duration: 1s;
    animation-fill-mode: forwards;
}
@keyframes submit
{
    100%
    {
        color: black;
        background-color: white;
        box-shadow: 0 0 10px 1px rgba(0, 0, 0, 0.63);
        border-radius: 50px;
    }
}

form input::placeholder
{
    color: rgb(214, 205, 205);
}

input[type="text"]:focus, input[type="password"]:focus, input[type="search"]:focus
{
    animation-name: input;
    animation-duration: 0.6s;
    animation-fill-mode: forwards;
}
@keyframes input
{
    100%
    {
}

```

```
        border-bottom:1.9px solid aqua;
        width: 80%;
        font-size: 1.4vw;
    }
}
select:focus
{
    animation-name: select;
    animation-duration: 0.6s;
    animation-fill-mode: forwards;
}
@keyframes select
{
    100%
    {
        border:1.9px solid aqua;
    }
}
optgroup
{
    background-color: rgb(83, 83, 95);
}

option:disabled
{
    color: rgb(214, 205, 205);
}

.ImgResult .img
{
    background-size: cover;
    margin: 0 auto;
    background-repeat: no-repeat;
    border-radius: 10vw;
    animation: fadeInAnimation ease 2s;
    animation-iteration-count: 1;
    animation-fill-mode: forwards;
}

@keyframes fadeInAnimation {
    0% {
        height: 1vw;
        width: 1vw;
        opacity: 0;
    }
    100% {
        height: 7vw;
        width: 7vw;
        opacity: 1;
    }
}
```

calFare.css

```
.busTypeContainer
{
    width: 220px;
    margin: 2vw auto;
}
.busTypeContainer label
{
    background-size: 80% 80%;
    background-repeat: no-repeat;
    background-position: center;
    border-radius: 10px;
    transition: ease-in-out .7s;
}

input[type="radio"]{
    display:none;
}
label:last-child {
    float: right !important;
}

input[type="radio"] + label
{
    border: 2px solid transparent;
    height: 5vw;
    width: 5vw;
    display:inline-block;
    padding: 0 0 0 0px;
    cursor: pointer;
}
input[type="radio"]:checked + label
{
    background-color: rgba(255, 255, 255, 0.63);
    height: 5vw;
    width: 5vw;
    display:inline-block;
    padding: 0 0 0 0px;
    cursor: default;
}

form input[type="submit"]
{
    display: inline;
}
.submitContainer
{
    margin: 0 auto;
    width: 17vw;
}
.submitContainer
{
    position: relative;
    transform: translateY("20px");
}
.submitContainer :first-child
{
    float: right;
    border-color: palevioletred;
}
.submitContainer :first-child:hover
{
    position: relative;
    cursor: pointer;
    animation-name: pink;
    animation-duration: 1s;
    animation-fill-mode: forwards;
}
@keyframes pink
```

```
{  
  100%  
  {  
    color: black;  
    background-color: palevioletred;  
    box-shadow: 0 0 10px 1px rgba(0, 0, 0, 0.63);  
    border-radius: 50px;  
  }  
}  
.pinkSubmit  
{  
  border-color: pink;  
}
```

common.css

```
/* Light mode */
@media (prefers-color-scheme: light) {

    :root
    {
        --navBackgroundColor:rgba(10, 7, 37, 0.73);
        --bodyColor: rgb(10, 36, 26);
    }
}

/* Dark mode */
@media (prefers-color-scheme: dark) {
    :root
    {
        --navBackgroundColor: rgba(213, 205, 255, 0.904);
        --bodyColor: rgb(247, 214, 219);

        --NavLinkBoxShadow: 3px 3px 10px rgba(0, 0, 0, 0.356), -3px -
3px 10px 0 rgba(255, 255, 255, 0.8);
        --NavLinkBoxShadowInset: inset 3px 3px 10px rgba(0, 0, 0, 0.356), inset -3px -
3px 10px 0 rgba(211, 225, 233, 0.8);
    }
}

body
{
    transition: ease all .5s;
    overflow-x: hidden;

    background-color: var(--bodyColor);
    font-family: 'Trebuchet MS', sans-serif;
}

.navPannel
{
    position: fixed;
    color: wheat;
    top: 0px;
    width: 100%;
    transition: ease all 2s;
    height: 6vw;
    z-index: 2;
}
.navPannel .logo
{
    float: left;
    margin-left: 1.1vw;
    position: relative;
    top: 50%;
    transform: translateY(-50%);

    margin-right: 5vw;
}
.navPannel .logo .logoImage
{
    background-image: url(..../images/logo1.png);
    background-repeat: no-repeat;
    background-size: cover;
    height: 4vw;
    width: 4vw;
    float: left;
}
.navPannel .logo .logoHeading
{
    font-size: 1.7vw;
    margin-left: .2vw;
    text-align: center;
```

```

width: 10vw;
font-weight: bolder;

float: left;
position: relative;
}
.navPannel h1
{
    float: left;
    position: relative;
    top: 50%;
    transform: translateY(-50%);
}

.innerContainer
{
    z-index: 1;
    position: relative;
    margin-top: 6vw;
    background: none;
}

.svgGradient
{
    position: absolute;
    z-index: -1;
    top: 0;
}

.navPannel .navLinks
{
    float: right;
    position: relative;
    height: 100%;
    margin: 0;
}

.navPannel a
{
    float: right;
    position: relative;
    top: 50%;
    transform: translateY(-50%);
    text-decoration: none;
    margin-right: 1.3vw;
    font-size: 1.3vw;
    padding: 0.6vw 1.35vw;
    border-radius: 0.8vw;
    font-weight: bolder;
    color: wheat;
    transition: ease all 1s;
}

.navPannel a:hover
{
    border-radius: 2vw;
    padding: 1vw 2.25vw;
    color: black;
    background-color: white;
}

.navPannel a:active
{
    box-shadow: var(--NavLinkBoxShadowInset);
}

.userProfile
{
    float: right;
    position: relative;
    margin-right: 1.3vw;
    font-size: 1.6vw !important;
}

```

```

        font-weight: bolder;
        color: rgb(115, 233, 233);
        /* background-color: black; */
        transition: ease all 1s;
        top: 1.6vw;
        height: 4.4vw;
    }
    .userProfile:hover
    {
        height: 7.7vw;
    }

    .userProfile .userName
    {
        padding: 0.6vw 1.4vw;
        text-transform: capitalize;
        cursor: default;
        margin-bottom: 1.3vw;
    }
    .userProfile .userImg
    {
        width: 4vw;
        height: 4vw;
        position: relative;
        left: 50%;
        transform: translateX(-50%);
        border-radius: 5vw;
        transition: ease all .5s;
        background-repeat: no-repeat;
        background-size: 100% 100%;
        background-position: center;
    }
    .iconContainer
    {
        height: 3.2vw;
        width: 6.4vw;
        position: relative;
        /* background-color: yellow; */
        border-bottom-left-radius: 2vw;
        border-bottom-right-radius: 2vw;
        top: -5vw;
        margin: 0 auto;
        opacity: 0;
        transition: ease all 1s;
    }
    .userProfile:hover > .iconContainer
    {
        opacity: 1;
        display: block;

        width: 8vw;
        margin-top: 4.4vw;
        animation-name: icons;
        animation-duration: 1s;
    }

    .iconContainer .setting, .iconContainer .logout
    {
        height: 3.2vw;
        width: 3.2vw;
        /* background-color: red; */
        border-radius: 5vw;
        background-repeat: no-repeat;
        background-size: 80% 80%;
        background-position: center;
        filter: grayscale(1);
        transition: ease all .5s;
    }
    .setting
    {
        float: left;
        background-image: url(..../images/settings.png);
    }
    .logout

```

```

{
  float: right;
  background-image: url(..../images/logout.png);
}

.setting:hover, .logout:hover
{
  filter: grayscale(0);
  background-size: 100% 100%;
  cursor: pointer;
}
.setting:hover
{
  transform: rotateZ(45deg);
}

.footer
{
  width: 100vw;
  height: 6vw;
  background-color: #efefef;

  box-shadow: 0px 0px 20px rgba(0, 0, 0, 0.3);
}

.footer .social, .footer h1
{
  position: relative;
  top: 50%;
  transform: translateY(-50%);
}
.footer h1
{
  margin-left: 3vw;
  margin-right: 45vw;
  float: left;
  font-size: 2.1vw;
  color: black;
}
.footer .social
{
  width: 4vw;
  height: 4vw;
  margin-left: 5vw;
  border-radius: 5vw;
  float: left;
  transition: ease all .5s;
  background-repeat: no-repeat;
  background-size: 60% 60%;
  filter: grayscale(100%);
  background-position: center;
  box-shadow: 7px 7px 12px rgba(255, 255, 255, 0.6),
              -7px -7px 12px rgba(70, 70, 70, .12);

}
.footer .social:hover
{
  filter: grayscale(0%);
}
.footer .social:active
{

  box-shadow: inset 7px 7px 12px rgba(255, 255, 255, 0.6),
              inset -7px -7px 12px rgba(70, 70, 70, .12);
}

```

confirmEmail.css

```
#errorMsg
{
    color: white;
    position: relative;
    top: 50%;
    transform: translateY(-50%);
}
.uploadImg
{
    background-image: url(..../images/user.png);
    height: 11vw;
    width: 11vw;
    background-color: gray;
    background-size: 90% 90%;
    background-position: center bottom;
    background-repeat: no-repeat;

    border-radius: 10vw;
    overflow: hidden;
    position: relative;
    left: 50%;
    transform: translateX(-50%);
    transition: ease-in-out .5s;
}
.uploadImg:hover
{
    box-shadow: 0 0 25px 0 rgba(0, 0, 0, 0.75);
}
.uploadImg input
{
    height: 100%;
    width: 100%;
    outline: none;
    opacity: 0;
}
.uploadImg span
{
    font-family: sans-serif ;
    background-color: rgba(0, 0, 0, 0.507);
    font-size: 1.6vw;
    position: relative;
    transform: translateY(-100%);
    padding-top: .2vw;
    padding-bottom: .4vw;
    color: white;
    text-shadow: 0px 0px 4px black;
    text-align: center;
    width: 100%;
    display: block;
}
.uploadImg input:hover
{
    cursor: pointer;
}
.profilePannel
{
    height: 100%;
    margin-top: 30vw;
    transition: ease-in-out 1.5s;
}
form h2
{
    width: 100%;
    text-align: center;
    margin-top: 2vw;
    color: white;
    margin-bottom: 2vw;
```

```
}

.options
{
    width: 100%;
    height: 4vw;
    margin-bottom: 3vw;
}
.options .img
{
    height: 4vw;
    width: 4vw;
    background-size: 90% 90%;
    background-position: center bottom;
    background-repeat: no-repeat;
    background-color: wheat;
    border-radius: 10vw;
    margin-left: 2.5vw;
    float: left;
    transition: ease-in-out .5s;
}
.options .img:hover
{
    cursor: pointer;
    box-shadow: 0 0 20px 0 rgba(0, 0, 0, 0.63);
}
```

home.css

```
@media (prefers-color-scheme: dark) {
  :root
  {
    --imgBoxShadow: 5px 5px 10px rgba(0, 0, 0, 0.692), -5px -5px 10px 0 rgb(241, 204, 204);
  }
}
.greeting, .tagline
{
  color: white;
  text-align: center;
  user-select: none;
}
.greeting
{
  margin-top: 15vw;
  font-size: 4.25vw;
}
.tagline
{
  margin-top: 1vw;
  font-size: 1.5vw;
}
.imgWithArticle
{
  position: relative;
  left: 50%;
  transform: translateX(-50%);
  width: 90%;
  margin-top: 25vw;

  height: 40vw;
  margin-bottom: 5vw;
}
.imgWithArticle .articleDiv
{
  text-align: center;
  width: 60%;
  float: left;
}
.imgWithArticle .articleDiv h1
{
  font-size: 3vw;
  margin-top: 2vw;
  margin-bottom: 3vw;
}
.imgWithArticle .articleDiv p
{
  margin: 0 5vw;
  text-align: justify;
  font-size: 1.5vw;
}
.articleImg
{
  background-image: url("../images/vehiclesStopping.jpg");
  background-repeat: no-repeat;
  background-size: 100% 100%;
  float: left;
  margin-left: 5%;
  width: 30%;
  height: 40vw;
  border-radius: 1vw;
  margin-bottom: 5vw;
  box-shadow: var(--imgBoxShadow);
}
.userFeedbacks
{
  position: relative;
  left: 50%;
```

```

        transform: translateX(-50%);
        width: 90%;
        height: 60vw;
    }
.userFeedbacks h1
{
    margin-top: 2vw;
    font-size: 4vw;
    text-align: center;

}
.userFeedbacks p
{
    text-align: center;
    margin-top: 2vw;
    font-size: 2.5vw;
}
.userFeedbacks .user
{
    box-shadow: inset 4px 4px 10px rgba(0, 0, 0, 0.356), inset -5px -
5px 12px 0 rgba(255, 255, 255, 0.8);
    background-color: white;
    height: 40vw;
    margin-top: 5vw;
    width: 30vw;
    float: left;
    margin-left: 10vw;
    border-radius: 1vw;
}
.userFeedbacks .user .userImg
{
    box-shadow: 0px 0px 15px rgb(0, 0, 0);
    height: 24vw;
    width: 24vw;
    border-radius: 15vw;
    margin-left: 3vw;
    margin-top: 3vw;

    background-size: 100% 100%;
}
.userFeedbacks .user p
{
    font-size: 1.2vw;
    text-align: justify;
    width: 24vw;
    margin: 2vw auto;
    overflow: hidden;
    text-overflow: ellipsis;
    display: -webkit-box;
    -webkit-box-orient: vertical;
    -webkit-line-clamp: 2;
}
.userFeedbacks .user h2
{
    font-size: 2vw;

    text-align: center;
    margin: 2vw auto;
}
.photoGallery
{
    height: 125vw;
    width: 70vw;
    position: relative;
    left: 50%;
    transform: translateX(-50%);
}
.photoGallery h1
{
    font-size: 4vw;
    margin-bottom: 4vw;
}
.photoGallery p
{

```

```

        margin-bottom: 2vw;
        font-size: 1.5vw;
    }
.photoRow
{
    width: 100%;

    color: white;
    text-shadow: 0px 0px 5px black;
}
.photoRow .Img
{
    width: 35vw;
    height: 35vw;
    background-repeat: no-repeat;
    background-size: 100% 100%;
    float: left;

    box-shadow: 0px 0px 1vw rgba(0, 0, 0, 0.521);
}
.photoRow h1
{
    margin-top: 2vw;
    margin-left: 2vw;
    margin-bottom: 1vw;
}
.photoRow p
{
    margin-left: 2vw;
}

.plus
{
    box-shadow: 4px 4px 10px rgba(0, 0, 0, 0.2), -5px -5px 12px 0 rgba(255, 255, 255, 0.58);
    background-color: rgb(94, 187, 224);
    font-size: 5vw;
    width: 5.8vw;
    border-radius: 10vw;
    text-align: center;
    font-family: 'Courier New', Courier, monospace;
    font-weight: bold;
    margin: 0 auto;
    color: rgba(33, 33, 83, 0.85));
    transition: ease-in-out .5s;
    user-select: none;
}
.plus:hover
{
    cursor: pointer;
    background-color: rgb(71, 161, 197);
    color: white;
}
.plus:active
{
    box-shadow: inset 4px 4px 10px rgba(0, 0, 0, 0.2), inset -5px -5px 12px 0 rgba(255, 255, 255, 0.58);
    color: rgb(197, 197, 197);
}

.updationWindow
{
    position: fixed;
    z-index: 2;
    left: 50%;
    top: 50%;
    transform: translate(-50%, -50%);
    background-color:rgba(83, 83, 95, 0.90);
    box-shadow: 0 0 30px 4px rgba(0, 0, 0, 0.63);
    width: 0vw;
    height: 0vw;
    opacity: 0;
    border-radius: 5px;
    transition: ease all .5s;
    overflow: hidden;
}

```

```

}
#close
{
    float: right;
    display: block;
    padding: 0.5vw;
    text-align: center;
    height: 2vw;
    width: 2vw;
    font-size: 1.5vw;
    margin: .5vw;
    color: white;
    user-select: none;
    border-radius: 10vw;
    transition: ease all .5s;
}
#close:hover
{
    background-color:rgba(28, 28, 53, 0.63);
    cursor: pointer;
}
form
{
    position: relative;
    clear: both;
    top: 35%;
    transform: translateY(-50%);
    font-family: sans-serif;
    margin: 0 auto;
    width: 80%;
    /* background-color: yellow; */
}
form input[type="text"], form input[type="password"], form input[type="range"], form input[type="search"]
{
    display: block;
    outline: none;
    width: 60%;
    background: transparent;
    border: none;
    border-bottom: 1px solid rgb(197, 197, 197);
    font-size: 1vw;
    margin: 10px auto;
    padding: 10px;
    color: rgb(214, 205, 205);
    caret-color: rgb(214, 205, 205);
    animation-name: input2;
    animation-duration: 0.6s;
    animation-fill-mode: forwards;
}
form h1
{
    color: white;
    text-align: center;
    margin-bottom: 3vw;
}

form input[type="submit"], input[type="button"]
{
    display: block;
    outline: none;
    /* width: 60%; */
    background: transparent;
    color: rgb(214, 205, 205);
    border: 2px solid white;
    border-radius: 10px;
    font-size: 1vw;
    font-weight: bold;
    margin: 10px auto;
    padding: 8px 18px;
}
form input[type="submit"]:hover, form input[type="submit"]:focus, input[type="button"]:hover, input[type="button"]:focus
{

```

```

position: relative;
cursor: pointer;
animation-name: submit;
animation-duration: 1s;
animation-fill-mode: forwards;
}
@keyframes submit
{
100%
{
color: black;
background-color: white;
box-shadow: 0 0 10px 1px rgba(0, 0, 0, 0.63);
border-radius: 50px;
}

form input::placeholder
{
color: rgb(214, 205, 205);
}

input[type="text"]:focus, input[type="password"]:focus, input[type="search"]:focus
{
animation-name: input;
animation-duration: 0.6s;
animation-fill-mode: forwards;
}
@keyframes input
{
100%
{
border-bottom: 1.9px solid aqua;
width: 80%;
font-size: 1.4vw;
}
}
#result
{
color: rgb(87, 254, 45);
display: none;
position: relative;
top: 30%;
transform: translateY(-50%);
clear: both;
text-align: center;
margin-bottom: 3vw;
}

```

leave.css

```
body
{
    background-image: none;
}
.container
{
    position: relative;
    width: 40vw;
    margin-top: 29vw;
    box-shadow: none;
}
.workspace
{
    border-top-left-radius: 5px;
    border-bottom-left-radius: 5px;
    width: 100%;
    height: 100%;
    box-shadow: 0 0 30px 4px rgba(0, 0, 0, 0.63);
}
input[type="date"]
{
    display: block;
}

#from::before
{
    content: "From \00a0";
}
#to::before
{
    content: "To \00a0\00a0\00a0";
}
#rangeOutput
{
    text-align: center;
    outline: none;
    background: transparent;
    border: none;
    color: rgb(214, 205, 205);
    margin-top: 2vw;
}
#rangeOutput::before
{
    content: "Passangers: \00a0";
}
#result
{
    margin-top: 3vw;
    color: white;
    text-align: center;
    width: 100%;
    position: relative;
    font-size: 1.8vw;
}
#result p
{
    padding: .3vw;
}
```

policies.css

```
.innerContainer
{
    text-align: center;
    margin-bottom: 30vw;
}

.innerContainer h1
{
    color: white;
    font-size: 4vw;
    margin-top: 15vw;
}
.innerContainer p
{
    font-size: 1.5vw;
    margin-top: 1vw;
    color: white;
}
.policy
{
    border-radius: 1vw;
    box-shadow: 4px 4px 10px rgba(0, 0, 0, 0.356), -5px -5px 12px 0 rgba(255, 255, 255, 0.8);
    margin-bottom: 3vw;
    text-align: center;
    background-color: rgb(220, 220, 220);
    width: 80vw;
    position: relative;
    left: 50%;
    transform: translateX(-50%);
}
.policy h1
{
    padding: 3vw;
    font-size: 3vw;
}
.policy p
{
    padding-left: 10vw;
    padding-right: 10vw;
    padding-bottom: 5vw;
    font-size: 1.5vw;
    text-align: justify;
}
.policy table
{
    margin: 0 auto;
    padding-top: 0;
    padding-left: 2vw;
    padding-right: 2vw;
    padding-bottom: 2vw;
    width: 75%;
    border-spacing: 1vw;
}
```

style.css

```
*
{
    margin: 0;
    padding: 0;
}
```

ticket.css

```
@media screen
{
#msg
{
    text-align: center;
    width: 100%;
    position: absolute;
    top: 50%;
    transform: translateY(-50%);
    font-family: 'Trebuchet MS',sans-serif;

}
.container
{
    display: none;
}

@media print
{
#msg
{
    display: none;
}
@page
{
    size: 500px 500px;
    margin: 0;
    padding: 0;
}

body
{
    background-color: black;
}

.container {
    position: relative;
    padding: 8px 8px 8px 8px;
    height: 465px;
    color: black;
    font-family: 'SimSun';
    padding-left: 40px;
    padding-right: 40px;
    font-size: 25px;
    text-transform: uppercase;
    background-color: white;

background-position: 40px 20px;
background-size: 10% 10%;

}

.container::before {
    background: linear-gradient(-135deg, black 5px, transparent 0), linear-gradient(135deg, black 5px, transparent 0);
    background-position: left-top;
    background-repeat: repeat-x;
    background-size: 10px 10px;
    content: "";
    display: block;
    position: absolute;
    top: 0px;
    left: 0px;
    width: 100%;
```

```
    height: 9px;
}
.container:after {
    background: linear-gradient(-45deg, black 5px, transparent 0), linear-
gradient(45deg, black 5px, transparent 0);
    background-position: left-bottom;
    background-repeat: repeat-x;
    background-size: 10px 10px;
    content: " ";
    display: block;
    position: absolute;
    bottom: 0px;
    left: 0px;
    width: 100%;
    height: 9px;
    border: none;
}
.container div, .container p
{
    margin-top: 15px;
}
}
```

Directory: BusManagementSystem/WEB-INF

web.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_4_0.xsd"
    version="4.0"
    metadata-complete="true">

    <servlet>
        <servlet-name>SendOTP</servlet-name>
        <servlet-class>SendOTP</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>SendOTP</servlet-name>
        <url-pattern>/SendOTP</url-pattern>
    </servlet-mapping>

    <servlet>
        <servlet-name>SignUp</servlet-name>
        <servlet-class>SignUp</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>SignUp</servlet-name>
        <url-pattern>/SignUp</url-pattern>
    </servlet-mapping>

    <servlet>
        <servlet-name>logout</servlet-name>
        <servlet-class>logout</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>logout</servlet-name>
        <url-pattern>/logout</url-pattern>
    </servlet-mapping>

    <servlet>
        <servlet-name>signIn</servlet-name>
        <servlet-class>signIn</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>signIn</servlet-name>
        <url-pattern>/signIn</url-pattern>
    </servlet-mapping>

    <servlet>
        <servlet-name>mail</servlet-name>
        <servlet-class>MailApp</servlet-class>
    </servlet>

    <servlet-mapping>
        <servlet-name>mail</servlet-name>
        <url-pattern>/mail</url-pattern>
    </servlet-mapping>

    <servlet>
        <servlet-name>CompareOTP</servlet-name>
        <servlet-class>CompareOTP</servlet-class>
    </servlet>

    <servlet-mapping>
        <servlet-name>CompareOTP</servlet-name>
        <url-pattern>/CompareOTP</url-pattern>
    </servlet-mapping>
```

```
</servlet-mapping>

<welcome-file-list>
    <welcome-file>home.jsp</welcome-file>
</welcome-file-list>

<context-param>
<description>Location to store uploaded file</description>
<param-name>file-upload</param-name>
<param-value>
    C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\BusManagementSystem\images\userPr
ofile\
</param-value>
</context-param>

</web-app>
```

Directory: BusManagementSystem/WEB-INF/classes

GenerateOTP.java

```
import java.util.*;
public class GenerateOTP
{
    public static String get()
    {
        Random rand= new Random();
        String otp= new String();
        for(int i=0; i<6; i++)
            otp+=Integer.toString(rand.nextInt(10));
        return(otp);
    }
}
```

compareOTP.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class CompareOTP extends HttpServlet {

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        String actualPassword = request.getParameter("actualPassword");
        String enteredPassword = request.getParameter("enteredPassword");

        if(actualPassword.equals(enteredPassword))
        {
            response.sendRedirect("createNewPassword.jsp");
        }
        else
        {
            response.sendRedirect("OTPnotMatched.jsp");
        }
    }
}
```

SendMail.java

```
import java.io.*;
import java.util.*;
import javax.mail.*;
import javax.mail.internet.*;

public class SendMail
{
    public static void send(String to, String sub,
                           String msg, final String user,final String pass)
    {
        Properties props = new Properties();
        props.put("mail.smtp.host", "smtp.gmail.com");
        props.put("mail.smtp.port", "587");
        props.put("mail.smtp.auth", "true");
        props.put("mail.smtp.starttls.enable", "true");

        Session session = Session.getInstance(props,new javax.mail.Authenticator()
        {
            protected PasswordAuthentication getPasswordAuthentication()
            {
                return new PasswordAuthentication(user,pass);
            }
        });
        try {
            MimeMessage message = new MimeMessage(session);
            message.setFrom(new InternetAddress(user, "Shivaji Roadways"));
            message.addRecipient(Message.RecipientType.TO,new InternetAddress(to));
            message.setSubject(sub);
            message.setContent("<center><h1>Shivaji Roadways</h1><p>We received a request to reset your password<br>Enter the following password reset code</p><code style='background-color: gray; font-size: 30px; color: white; padding: 10px;'>" +msg+ "</code></center>", "text/html");
            Transport.send(message);
        }
        catch(Exception e) {
            e.printStackTrace();
        }
    }
    public static void sendForSignUP(String to, String sub,
                                    String msg, final String user,final String pass)
    {
        //create an instance of Properties Class
        Properties props = new Properties();
        props.put("mail.smtp.host", "smtp.gmail.com");
        props.put("mail.smtp.port", "587");
        props.put("mail.smtp.auth", "true");
        props.put("mail.smtp.starttls.enable", "true");

        Session session = Session.getInstance(props,new javax.mail.Authenticator()
        {
            protected PasswordAuthentication getPasswordAuthentication()
            {
                return new PasswordAuthentication(user,pass);
            }
        });
        try {
            MimeMessage message = new MimeMessage(session);
            message.setFrom(new InternetAddress(user, "Shivaji Roadways"));
            message.addRecipient(Message.RecipientType.TO,new InternetAddress(to));
            message.setSubject(sub);
            message.setContent("<center><h1>Shivaji Roadways</h1><p>We received a request to create a new account<br>Enter the following password OTP</p><code style='background-color: gray; font-size: 30px; color: white; padding: 10px;'>" +msg+ "</code></center>", "text/html");
            Transport.send(message);
        }
        catch(Exception e) {
            e.printStackTrace();
        }
    }
}
```

SendOTP.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class SendOTP extends HttpServlet {

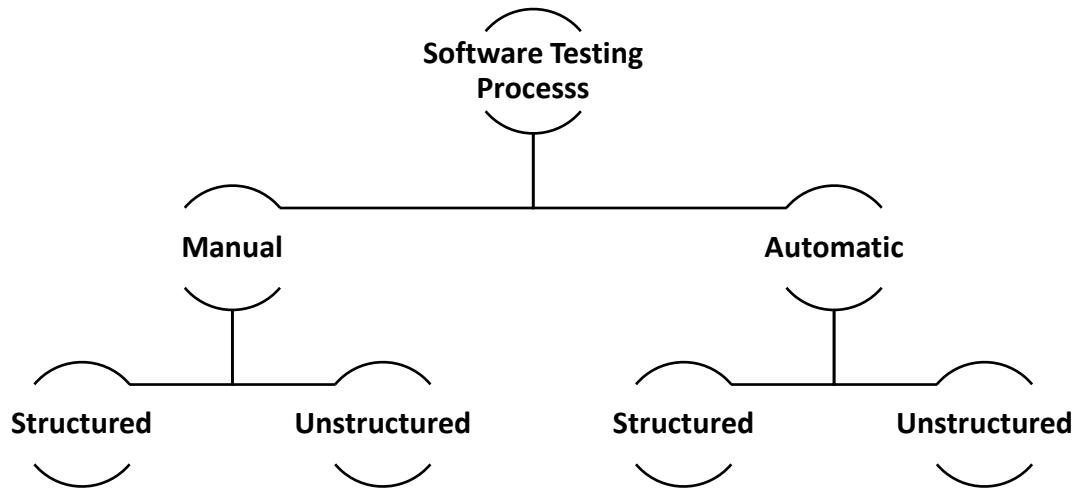
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();

        String to = request.getParameter("email");
        HttpSession session = request.getSession();
        session.setAttribute("emailForOTP", to);
        String otp=GenerateOTP.get();
        String subject = otp+" is your account recovery code";
        String message =otp;
        String user = "knishant113@gmail.com"; //gmail user ID
        String pass = "xxxxxxxx"; //gmail user password
        SendMail.send(to,subject, message, user, pass);
        request.setAttribute("otp", otp);
        request.getRequestDispatcher("EnterOTP.jsp").forward(request, response);
        response.sendRedirect("EnterOTP.jsp");
    }
}
```

Testing

Testing Process



Manual Testing

Manual Testing is the Software Testing Process that allows the tester to locate bugs or defect in the Software Program being tested.

The role of the tester is to use the software like the end user would, and then identify problems and mitigate them to ensure optimum functionality of the Software.

The tester solely responsible for executing all test cases manually without turning to any automation tools.

The execution is undertaken by the tester preparing a test plan document detailing the systematic approach to Software Testing.

Automation Testing

Automation Testing is a technique that uses an application to undertake the implementation of the Software Testing Cycle in its entirety.

It uses scripted sequences executed by Testing Tools. It is a process that validates software functionality prior to the release of the Software into Production.

It is a way of simplifying manual efforts into a set of scripts that can be accessed and worked upon by the system. Automation Testing considerably reduces the time involved in the whole process of Software Testing while simultaneously enhancing the efficiency and effectiveness of the process.

Depending on the Software Testing Process that is followed, there are two major types of Software Testing.

Structured:

This is the kind of Software Testing wherein the test and test cases are derived from a thought knowledge of the structural code of the Software and its Internal Implementation.

Since it directly deals with the knowledge of the code, it is mostly undertaken by a trained team of developers.

Unstructured:

This is the kind of Software Testing that is performed without prior planning or documentation.

It is considered to be the least formal testing method and is only intended to run once unless of course an error is detected.

In that case, it is run repeatedly until the error, if mitigated. Also known as Ad Hoc Testing, it is performed by Improvisation, as the sole aim is to detect a bug by taking up whatever means needed.

Manual Structured testing process is adopted by me.

Test Cases

Project Name	BusManagementSystem
Module Name	Log In
Created By	Nishant
Creation Date	27-04-2020
Reviewed By	Nishant
Reviewed Date	27-04-2020

Login

Test Scenario ID	TS_LOGIN_001			
Description	To check the login functionality			
Test Case ID	TC_LOGIN_001	TC_LOGIN_002	TC_LOGIN_003	TC_LOGIN_004
Test Case Description	Enter: Valid email and Valid password	Enter: Valid email and Invalid password	Enter: Invalid email and Valid password	Enter: Invalid email and Invalid password
Preconditions	Valid URL Logged Out Test Data	Valid URL Logged Out Test Data	Valid URL Logged Out Test Data	Valid URL Logged Out Test Data
Test Data	Email: knishant113@gmail.com Password: 12345	Email: knishant113@gmail.com Password: 123Invalid124	Email: knishanffaail.co m Password: 12345	Email: knishanffaail.co m Password: 123Invalid124
Expected Results	User should logged in and able to see admin navigation panel	Page should be reloaded	Page should be reloaded	Page should be reloaded
Actual Results	Logged in and able to see admin navigation panel	Page Reloaded	Page Reloaded	Page Reloaded
Status	Pass	Pass	Pass	Pass
Comments(If Any)	No Comments	No Comments	No Comments	No Comments

Sign Up

Test Scenario ID	TS_SIGNUP_001		
Description	To check the registration functionality		
Test Case ID	TC_SIGNUP_001	TC_SIGNUP_002	TC_SIGNUP_003
Test Case Description	Sign up for registration Valid Name Valid Email (registered) Valid Phone Valid Password	Sign up for registration Valid Name Valid Email (registered) Valid Phone Valid Password	Sign up for registration Invalid Name Invalid Email Invalid Phone Invalid Password
Preconditions	Valid URL Logged Out Test Data	Valid URL Logged Out Test Data	Valid URL Logged Out Test Data
Test Data	Name: Dev Ed Email: deved@aol.com Phone: 8798096709 Password: 12345	Name: Dev Ed Email: knishant113@gmail.com Phone: 8798096709 Password: 12346	Name: Aafdsfasdfasfasdfadsfasffasd Email: devedacom Phone: 8798096709abc Password: 12
Expected Results	User should get an validation OTP email on the given email id	User should get an error message: Email already registered	Errors: name: max 20 characters allow email: invalid email phone: value should be 10 digit numeric password: password should be at least 4 digit
Actual Results	User get OTP	Error: Email already registered	Same as expected
Status	Pass	Pass	Pass
Comments(If Any)	No Comments	No Comments	No Comments

Forget Password

Test Scenario ID	TS_FPASS_001		
Description	To check functionality of Forget password module		
Test Case ID	TC_FP_001	TC_FP_002	TC_FP_003
Test Case Description	Forgetting password valid email (Registered)	Forgetting password valid email (Unregistered)	Forgetting password Invalid email
Preconditions	Valid URL Logged Out Test Data	Valid URL Logged Out Test Data	Valid URL Logged Out Test Data
Test Data	Email: knishant113@gmail.com	Email: navinbashyal@gmail.com	Email: knishantail.com
Expected Results	User should get an OTP email on the given email id	Error: Email Doesn't exist	Error: Invalid email
Actual Results	User get OTP	Email Doesn't exist	Invalid email
Status	Pass	Pass	Pass
Comments(If Any)	No Comments	No Comments	No Comments

Security Implementation

Application security describes security measures at the application level that aim to prevent data or code within the app from being stolen or hijacked. It encompasses the security consideration that happen during application development and design, but it also involves systems and approaches to protect apps after they get deployed.

Application security may include hardware, software, and procedures that identify or minimize security vulnerabilities. A router that prevents anyone from viewing a computer's IP address from the Internet is a form of hardware application security.

But security measures at the application level are also typically built into the software, such as an application firewall that strictly defines what activities are allowed and prohibited. Procedures can entail things like an application security routine that includes protocols such as regular testing.

Application security definition

Application security is the process of developing, adding, and testing security features within applications to prevent security vulnerabilities against threats such as unauthorized access and modification.

Importance of security implementation

Application security is important because today's applications are often available over various networks and connected to the cloud. Increasing vulnerabilities to security threats and breaches. There is increasing pressure and incentive to not only ensure security at the network level but also within applications themselves. One reason for this is because hackers are going after apps with their attacks more today than in the

past Application security testing can reveal weakness at the application level, helping to prevent these attacks.

Types of security implementation

Different types of application security features include authentication. Authorization, encryption, logging, and application security testing. Developers can also code applications to reduce security vulnerabilities

- **Authentication:** When software developers build procedures into an application to ensure that only authorized users gain access to it. Authentication procedures ensure that a user is who they say they are. This can be accomplished by requiring the user to provide a user name and password when logging in to an application. Multi-factor authentication requires more than one form of authentication – The factors might include something you know (a password), something you have (a mobile device), and something you are (a thumb print or facial recognition).
- **Authorization:** After a user has been authenticated, the user may be authorized to access and use the application. The system can validate that a user has permission to access the application by comparing user's Identity with a list of authorized users. Authentication must happen before authorization so that the application matches only validated user credentials to the authorized user list.
- **Encryption:** After a user has been authenticated and is using the application, other security measures can protect sensitive data from being seen or even used by a cybercriminal. In cloud-based applications, where traffic containing sensitive data travels between the end user and the cloud, that traffic can be encrypted to keep the data safe.

- **Logging:** If there is a security breach in an application, logging can help identify who got access to the data and how. Application log files provide a time-stamped record of which aspects of the application were accessed and by whom.
- **Application security testing:** A necessary process to ensure that all of these security controls work properly.

Limitations of the Project

The limitation of something is the act or process of controlling it

1. Limited Mobile Experience

Coding is extremely important for mobile viewing for your website.

Many web builders like me have a very limited mobile optimization in their web builder. Why does mobile matter? Mobile viewing of websites has finally surpassed desktop browsing as of a years ago. Over 50% of users view websites on their mobile devices. When you run into an issue with how content or a part of the design looks on mobile devices, the website builder does not let you do any further customization. You are simply limited to their built-in mobile rendering which does not always translate your content and design into an ideal look and feel, potentially causing user experience issues.

2. The Website Doesn't Quite Look "Right"

Most websites builders show you a preview of the website before you publish. However, it rarely looks exactly like the preview. As a result, you may spend a significant amount of time creating a website that doesn't actually look high quality like you intended. Naturally, these can be exceptionally frustrating, and you are again limited to what the website builder "allows" you to do.

3. Ease-of-Use

Website builders often appear easy to use at fist which is big plus. However, when you try to delve into links, customizing pages, and resizing images, they start to become a painstaking process. It can take

a while to learn how to change contain sections of the website to avoid upsetting the website builder. This can be extremely time-consuming. Ultimately, you are still at the mercy of what the website builder “will allow” in terms of built-in functionality.

4. Cookie-Cutter Template Selection

A lot of website builders bypass the lack of coding knowledge by only giving customers certain templates to choose from their site. Thus, you can only put text in this spot and only a picture in that spot, but if you need more space for more content outside of their design framework you are out of luck. It makes it a bit hard for your business to stand out in the crowd.

5. Missing SEO Elements

Most websites builders do **NOT** truly and fully integrate SEO or lead generation into their process of creating you own website. They often don't tell you to incorporate a call-to-action on your website or create a soft offer for your customers in order to capture email address. Your website needs these elements and more to make your website needs these elements and more to make your website a way to convert leads into actual customers.

Is this project for Client/Industry?

No

This Project is not for any Industry or Client. This project is solely made for **Final Year Project** of BCA IGNOU. I'm assuming here the Company (**Assumed Shivaji Roadways**) for which I'm making this **Bus Management System** is a new company in industry so that they do not tell me about how the Software will work and they also don't know which are the modules those they need for managing their company efficiently.

I'm responsible for making this web project successful, and if in future any company will exist like Shivaji Roadways and they want's a web application like my project so absolutely I would like to sale them my project.

Future Applications of the Project

The Project has covered almost all the requirements. Further requirements and improvements can easily be done since the code mainly structured and modular in nature.

The project has a very vast scope in future. The project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of expansion.

The following are the future scope for the project:

- **Maps:** We can add module for maps to know traffic, bus stand location and availability of busses on that particular location where he/she is.
- **Bar code Reader:** We can add module for reading barcode for instantly validate an issued ticket or pass is valid or not this will be very helpful for ticket checker and another reason behind this module implementation may be ticket checking need at least 5 minutes which may be very useful for someone.
- **GPS:** We can add a module by some hardware implementation in this module we need to insert a GPS on each and every bus to inform passenger how far is the nearest bus, so that in case of urgency passengers can go for Metro service or any other such as auto rickshaw, gramin sewa etc.
- **Maintenance on bus:**
We can add this module to store information regarding maintenance on buses this will store, Bus No., Date of Service, Type of repairing, cost on repairing and status of bus.

Bibliography

Finally, we have a system where a user who books the bus ticket giving the details and doing the necessary payment option. He gets a token with all detail he boards on the bus on given time.

The conductor who is staff will check the ticket and punch the conformation owner check the bills in the end. The user drops the destination. Hence completes the task of the system