**Bus Reservation System**

**Case Study**

**Problem Statement**

In today’s world of bus transportation many private bus transportation company have traditional approach of managing work on paper which seems to be money and time consuming. Also not guaranteed that all transaction to be error free and may lead to many calculation mistakes in bill generation and costing.

**Objective**

Online bus reservation system is a project which provides a portal for bus ticket reservation. This application allows customers to book bus tickets from anywhere and anytime. The customer can easily book their tickets and cancel tickets at his comfort. The customer can view all the details of the seats, bus, and route along with picture . The customer can also view and download the details of the journey and journey timings. This will give customer an overview of the journey and will be a hastel free task of doing bus reservation at fingertips.

Objective of software is to computerize any traveling company to manage data, so that all the transactions become fast and there should not be any error in transactions like calculation mistake, bill generation and other things. It replaces all the paperwork. It keeps records of all the bills also, given to the customers, so that customer could update his daily accounts. All most care and back-up procedures must be established to ensure 100% successful implementation of the computerized Bus reservation system.

**Customer Modules**

1) Registration

2) Login

3) Bus Availability Enquiry

4) Make Reservation

5) Cancel Reservation

6) Print Ticket

7) Wallet payment

**Admin Modules**

1. Update Reservation

2. Update Route

3. Update Bus

**Module Description**

Module 1: Unauthorized reservation

On home page, customer searches availability of bus according to the desired route, based on source, destination and date. If bus is available for that particular route and date then customer have to check whether seats are available or not on Bus Seat-Map page. customer can make reservation through a short process by entering his/her email and/or phone number and make payment through online payment gateway.

Upon successful reservation of bus, customer will get his E-ticket on his entered email.

Module 2: Authorized reservation  
Customer has to register through sign-up page. And has to login through login page before making any reservation. Registered customer has another option of making payment through personal wallet.

Upon successful reservation of bus, customer will get his E-ticket on his entered email.

Module 3: Coach bus reservation( authorized customers only):

Customer has to register through sign-up page. And has to login through login page before making any reservation. Customer has to check the availability for bus and can check what all extra facilities are provided with that bus.Customer can also opt for with or without driver (if available). For without driver, customer has to submit extra security deposit for security purpose.

Module 4: Unauthorized customer cancellation

Unauthorised customers can cancel their reservation by entering their email address on which they had booked their tickets along with transaction ID (mentioned in the E-Ticket). On the cancellation page there will be two options. One for rescheduling the journey within one year and second to get the paid amount back, for which he/she has to register with us to avail the amount in their personal wallet.

Module 5: Authorized customer cancellation

Customer will be provided with an interface to cancel his journey by Clicking on sub menu Cancel Reservation of My Transaction tab. customer will get his refund back in his/her personal wallet instantly.

Module 6: Feedback

Customer can give feedback to us.

**Admin Modules**

Module 6:

Admin will have his separate login through which he will have the facility to add the details of buses and drivers, routes of travel and remove any bus. Admin can make analysis on following things :

Frequently travelled routes.

Last month record and profits.

Most preferred types of buses.

customer who have registered but not made any reservation.

Reservation details of customers (daily, weekly, monthly basis)

**UI Flow Description**

**INDEX**

The user will visitthe website busreservationsystem.in. The index page consists of navigation bar The navigation bar includes the logo ofthe website.User will get options for

* Contact
* Login | Signup.

There will be several advertisements displayed on the background ofthe website. Authorized user has to enter following details to search the availability of the bus tickets:

* Source
* Destination
* From date
* To date

There will be a search button after entering the above details, on clicking the search button the user will be redirected to search.jsp page. The footer section of the index.jsp will contain the following info

* copyright information
* T&C
* Privacy policy.
* FAQS

User can login or signup by clicking on “login|signup” button.

**LOGIN-SIGNUP**

**SIGN-UP**

The user will register onthe website. The user has to fill the correct details with appropriate format required in the sign-up form to sign-up on the website. The details required in the signup form are as follows:

* First name
* Last name
* Email
* Password
* Confirm password
* Contact no

There will be 2 buttons on the bottom of registration form:

* Signup button
* Cancel button

The user has to click on the signup button after entering the above details to register onthe website. If the user does not want to register then he can press the cancel button. On clicking the cancel button the user will be redirected to the homepage index.jsp .If the user is already registered then he can click on the sign-in link to login onthe website.

**LOGIN**

After successfully registering onthe website user can login onthe website. If the user is not registered then he can click on the sign-up here link to register onthe website The details required for login are as follows:

* Email id
* Password

There will be 2 buttons on the bottom of registration form:

* Login
* Cancel

The user has to fill the registered Email-id and Password to login onthe website. After entering the Email id and Password user can click on remember me so that every time he doesn’t need to enter his Email id and Password for logging in. On clicking the login button user will be successfully logged in tothe website. If the user does not want to login then he can press the cancel button. On clicking the cancel button the user will be redirected tothe homepage index.jsp. If the user forgets his password then he can click on forgot password link. On clicking forgot password the user will be redirected to forgotpassword.jsp page.

**FORGOT PASSWORD**

The details required for login are as follows

* Email-id

There will be 2 buttons after entering email-id

* Submit
* Cancel

The user will be prompted to enter the registered email-id . On clicking the submit button a password reset link will be sent to registered email-id. On clicking the cancel button the user will be redirected tothe homepage index.jsp.

**RESET PASSWORD LINK**

On clicking the reset password link the user will be redirected to resetpasswordlink.jsp. The user will be prompted to enter the new password twice. System will verify whether both the passwords are same. On clicking the update button the password of the user will be changed successfully.

**HOME**

The user will be redirected to home.jspafter successful login.The home page consists of navigation bar. The navigation bar includes the logo ofthe website. There will be a message hello ‘username’ next to the logo of the website. User will get options such as:

* Contact
* MyDashboard
* Logout

Authorized user has to enter following details to search the availability of the bus tickets:

* Source
* Destination
* From date
* To date

There will be a search button after entering the above details, on clicking the search button the user will be redirected to search.jsp page. The footer section will be same as of the other pages.

**Mydashboard**

The user will be redirected to My Dashboard.jsp on clicking My Dashboard link. The dashboard page consists of header and footer. The header and footer details are the same as that of other pages. The page will include the following links in tabular form on the left hand side :

* Bookings
* Profile
* Change password
* Wallet

The user will be redirected on to a new page after clicking on any of the link.

**Booking**

The page will include the following links in tabular form on the left side:

* Bookings
* Profile
* Change password
* Wallet

On the Right hand side, user can see the details of his current booking, past booking and cancelled booking. User can see the E-ticket. There is also an option to print ticket ,cancel ticket or reschedule the ticket. User can only print the ticket of the current booking and not of the past and cancelled booking.

**Profile**

The page will include the following links in tabular form on the left side:

* Bookings
* Profile
* Change password
* Wallet

On clicking profile link,user will be redirected to his/her profile. The user can see the following in his profile:

* Name
* Dob
* Gender
* Mobile
* Email
* Address

The user can update his address ,age and gender in his profile and save the details.

**ChangePassword**

The page will include the following links in tabular form on the left side:

* Bookings
* Profile
* Change password
* Wallet

On clicking the change password link , user will be redirected to ChangePassword The user has to enter the following to change his password:

* Current password
* New password

The user will be prompted to enter the new password twice. System will verify whether both the passwords are same. On clicking the update button the password of the user will be changed successfully.

**Search**

The header and footer details will be the same as that of previous web pages.The page consists of a header and footer as displayed in the above web pages. when the user enters the desired bus details and clicks on the search button he will be redirected to this page. The page will display the search results such as the availability of bus, arrival time and departure time of the bus, fare and distance. User will the confirm the bus availability and select the desired seat. The page will consist of a book button which will redirect the user to the payment page.

**BookTicket**

The header and footer details will be the same as that of previous web pages. When the user will verify the bus details he will select the desired seat. A model consisting of bus seat layout will be displayed from which user will select the desired seat. The model will display the already booked seats and un-booked seats. The user cannot select the booked seats.

**Payment**

The header and footer details will be the same as that of previous web pages. After clicking the book button on the search.jsp page user will be redirected to the payment jsp page.

The payment page will include various methods of payment from which user can select the method of payment. Payment module will be integrated with the bank and it will be processed in the backend.

Home

Bus Reservation System

Login-signup

About Terms of Use Contact Us

Online Tickets Booking

To From

From To Date Of Journey Date of Return(Optional)

Footer

Search Bus

login-signup

Sign up Forgot Password?

Sign in Sign up

Sign up

Cancel

password

Email id

First name

Confirm password

Password

Email id

Last name

Contact number

Sign up

Cancel

myDashboard

My DashBoard

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Logout

Bus Reservation System

Logout

hehhehehejfjdjdndnm

Hello UserName

Bookings

Profile

Change Password

Wallet

Bus Reservation System

Logout

My DashBoard Up-Coming Bookings

Mumbai -🡪 Pune

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Logout

Hello UserName

Bookings

Profile

Print Ticket

Cancle Ride

Change Password

Wallet

Search.jsp

Hello UserName

Bus Reservation System

About Terms of Use Contact Us Logout

Travels Depart Arival Seats Fare

Divya Travellers 8:10 PM 6:10 AM 4 Seats 900

BOOK Now

Bookticket.j

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Book