



Course Code : CSE 404

Course Title : Software Engineering and ISD Laboratory

Project name : Bus ticket booking management system

Experiment no: 01

Experiment name: System Specification Bus ticket booking management system

Submitted To

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Group No : 02

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Tama Shil

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The project is about bus ticket booking management system. The main actor of the system are user and admin.

The I/O of the system for user:

- The input for user includes registration information like name, username, email, mobile number, password, gender etc.
- The main input for user is his username and password to access the facilities of the system.
- Another input for the user is the bus reservation information like bus route, arrival time, pickup point, destination etc.
- Payment method is also a input for user
- Cancellation of ticket reservation

The output of the system for user:

- Via providing login information the user will be lead to a homepage containing-
 - Home
 - Bus details
 - Reservation history
 - logout
- After registration the user will be lead to login page

- After reservation the user will be provided by
 - An email or message about reservation confirmation
 - A softcopy of reserved ticket

Input for admin:

- As an admin he or she can input-
- Login information
- Bus schedule
- Edit schedule
- Delete schedule

The output for admin:

- The output for admin will be the homepage
- Bus details
- Reservation list
- Cancellation requests

Now let's specify our system. The specifications provided below serve as a general outline for bus ticket management system, depending on specific project requirements, additional features and customization maybe required.

Admin Registration and login

- The admin can register an account as the moderator
- The admin will have to login as admin to control the system
- For registration admin will provide,

- Name
 - Email
 - Number
 - Password
 - type
- For login admin will choose login as admin module

User Registration and login

- The user can also register as a general user of the system
- The user will need to insert the information's for registration
- The user will provide login username and password for login

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Bus module

The admin will control the bus details for bus booking for the system.

He may do the following-

➤ Add bus schedule

- .The system has a function that allow administrator to add the new schedule and the destination to the driver.
- The system will check on the same time, same day and same driver that already have the schedule or not, if yes then the system will not allow the administrator to add the new schedule for the particular driver on the same time, day and place.
- If not then the administrator can assign the new schedule for the particular driver.

➤ Edit bus schedule

- The system has a function that allows the administrator to edit the schedule that already assigned.
- If have any happen occur so that the administrator need to reassign the schedule for the driver.

➤ Delete bus schedule

- The system has a function that allows the administrator to delete a schedule for the particular driver if they feel that the schedule not suitable for this particular driver on that time

➤ View bus schedule

- The system has a function that allow the driver to view the schedule that assign by the administrator according to their name so the driver can know when and what time they should driver the bus from one destination to another destination.

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Part: User Login and Registration

Login:

1. User provides username and password for login.
2. It provides two text fields-
 - Login Name
 - Password
3. If either of the two fields is left blank, an error must be reported. An error must be reported if wrong login name and password is provided.
4. If the user has forgotten their password, they click on the 'Forgot Password' which takes them to a password recovery screen.
5. After submitting the credentials, if they are validated and if correct, the user is logged in.

Registration:

1. The registration page should be displayed when a user clicks on the register command button in the page.
2. It consists of three text fields-
 - Login name
 - Enter password

- Retype password

3. If any of the text field is left blank, it is an error that must be reported to the user
4. If all fields are filled in but there is a record for the username, then an error must be reported.
5. If two passwords are different, that must also be reported as an error.
6. After completing all the above mentioned criteria, the user completes a successful registration.

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Project: Bus Ticket Management System

Part: Ticket Reservation, Cancellation

Ticket Reservation:

Ticket Reservation is one of the most vital parts of Bus Ticket Management System. We can divide this part into some steps.

1. User Interface:

- User friendly interface for customers to search, select.
- Clear display of available routes, dates and times.
- Integration with payment gateways to facilitate secure online transaction.

2. Booking Management:

- Ability to manage and track bus schedules, routes and seat availability.
- Real time updating of seat availability.
- Booking Confirmation.

3. Payment Integration:

- Integration with secure payment gateways to process online transaction.
- Support various payment method such as debit/credit card, net banking.

4. Admin Panel:

- Administrative interface for managing bus schedules, routes, fares and seat availability.
- Reporting capability to generate sales report.

5. Security and Performance:

- Security login and authentication mechanism
- Encryption of sensitive data
- Regular backups and data recovery.

Ticket Cancellation:

After reservation, if you decide that you would not travel, you can cancel the ticket. To cancel the ticket, the admin panel needs to change the database and reallocate the tickets.

1. Cancellation Process and Policies:

- Implementation of cancellation policies defined by the bus operator or ticketing system.
- Handling of refund calculation based on cancellation timeframes and rules.
- Ability to enforce non-refundable tickets or apply partial refund based on specific condition.

2. Database Management:

- Database to store and manage ticket booking information, including cancellation status.
- Integration with payment gateways to handle refund transactions.
- Logging and tracking of canceled tickets for record-keeping purposes.

