



BOOK ME BUS SYSTEM

Subject: NET web Programming Professor: MEAS PHEAROM

Class: IT3C01

Member:

- 1. Try BunHeng 2. Morn Thea

 - 3. Hai Em
 - 4. Ol Panha



- Introduction
- Background
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- Summary

1. Introduction

Objective

- Purpose: Simplify bus ticket booking.
- Features: Search tickets, passengerDetail.
- Benefits: Enhanced convenience and efficiency.

Scope

- User Registration & Login
- Search Tickets
- passenger Detail
- Payment Processing

2. Background

Context

- Current Issue: Manual booking methods are inefficient.
- Solution: Automates booking with real-time information.

Existing Solutions

- Limitations: User-unfriendly interfaces and lack of advanced features.
- Our Solution: Addresses these gaps with an integrated, user-friendly platform.

3. Challenges and opportunities

Challenges

- Scalability: Efficient handling of user load.
- User Experience: Designing a straightforward interface.
- Security: Safeguarding user data and payments.

Opportunities

- Integration: Add travel service expansions.
- Advanced Features: Real-time tracking, dynamic pricing.
- Data Analytics: Insights from booking data.

4. Functionalities and features

Core Features

- User Management: Registration, login, password recovery.
- Search Tickets: Filter and view bus routes.
- Seat Selection: Interactive seat map.
- Booking Management: View, modify, cancel bookings.
- Payment Processing: Secure transactions.

Additional Features

- Email Notifications
- User Dashboard
- · Admin Panel: Route and user management.



Design Principles

- Simplicity: Easy navigation and interaction.
- Consistency: Uniform design elements.
- Accessibility: Inclusive design.

User Flow

- Registration/Login: Access to user accounts.
- Route Search: Find routes by criteria.
- Seat Selection: Choose available seats.
- Payment: Secure payment and confirmation.

6. System Design

Architecture

- Front-End: ASP.NET for web interface.
- Back-End: C# for business logic.
- Database: SQL Server for data storage.

7. Back-end functionalities Implementation

Key Functions

- User Management: Registration and login.
- Route Management: CRUD operations.
- Booking System: Seat availability and booking logic.
- Payment Processing: Payment gateway integration.

Sample Code

- User Authentication: C# login code.
- Booking Management: C# booking code.
- Payment Integration: Example payment processing code.

8. Technologies

Front-End

• ASP.NET: Framework for web interfaces.

Back-End

- C#: Server-side logic.
- SQL Server: Data management.

Additional Tools

- Entity Framework: ORM for database operations.
- ASP.NET Identity: User authentication.

9. Summery

Overview

- Solution: Comprehensive online bus ticket booking system.
- Features: User-friendly with robust back-end management.

Future Directions

• Improvements: Mobile apps, additional payment methods, advanced analytics.

Appendices

- Database Schema: SQL scripts.
- Code Samples: Key snippets.
- Wireframes and Mockups: Design assets.