Documentation

Introduction

The Flight Booking System is a web-based platform that enables users to search, book, and manage flight reservations online. The system supports two user types: Clients who can book flights and manage their tickets, and Admins who oversee all bookings and system operations.

Key features include user authentication, flight search and booking, secure payment processing, and ticket management.

Objectives

- Provide secure user authentication and authorization
- Enable efficient flight search and booking
- Process payments securely
- Generate and display digital tickets
- Allow booking management and cancellation
- Provide admin dashboard for system oversight

Functional Requirements

User Management:

- Register new users with role assignment
- Login with username and password
- Role-based access control (Client/Admin)

Booking Process:

- Search and select flights
- Fill booking form with travel details
- Process payment with card information
- Generate tickets with unique IDs
- Display ticket details
- Cancel bookings with confirmation

Non-Functional Requirements

Security:

- Password encryption
- HTTPS secure connection
- PCI DSS compliant payment processing

Performance:

- Login response time under 2 seconds
- Payment timeout: 60 seconds
- Real-time seat availability updates

Usability:

- Responsive design for mobile devices
- User-friendly error messages
- Data persistence across pages