

Flight Management System

I. Project Requirements:

Purpose:

The Flight Management System (FMS) is designed to revolutionize the aviation industry's approach to managing flights and passenger information. This project addresses the inefficiencies and challenges associated with traditional systems, providing a modern, user-friendly, and secure web application for streamlined flight and passenger management.

Expected Outcomes:

1. Efficient Flight Management:

- Implement CRUD operations for adding, updating, and deleting flight details.
- Provide a user-friendly interface for administrators to seamlessly view and manage flight information.

2. Streamlined Passenger Management:

- Enable CRUD operations for passenger information.
- Associate passengers with specific flights, facilitating efficient tracking of seat assignments.

3. User-Friendly Web Interface:

- Develop a responsive web interface using HTML and CSS to ensure easy navigation and accessibility.

4. Real-time Updates:

- Introduce real-time updates to enhance the accuracy and timeliness of flight and passenger information.

Specific Constraints or Limitations:

- Time limitations may impact the depth of features or scalability, necessitating focused prioritization.

II. Project Plan:

Scope:

The project encompasses the development of a comprehensive Flight Management System, covering flight and passenger management, a responsive web interface, and integration with a secure SQL Server database.

Phase 1 - Planning and Design (Week 1):

- Define project requirements and objectives.
- Create the system architecture and design the database schema.
- Set up the development environment.

Phase 2 - Development (Week 2):

- Implement CRUD operations for flight and passenger management.
- Develop and refine the user-friendly web interface.
- Integrate real-time updates and ensure data accuracy.

Phase 3 - Testing & Deployment (Week 3):

- Conduct thorough testing of the system for functionality, security, and performance.
- Address and rectify any identified issues.
- Deploy the Flight Management System in a production environment.
- Monitor and ensure a smooth transition from the existing system.

Technologies:

- Development Framework: Spring Boot
- Database: MySQL Server
- Backend Language: JAVA

Tools:

- IDE: IntelliJ IDEA Community Edition 2023

Team:

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