Project Proposal

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Flight Management System

1. Introduction:

The Flight Management System proposed here aims to streamline the process of managing flights for both administrators and customers. Developed using HTML, CSS, JavaScript, and PHP, this system will offer a user-friendly interface and robust functionality to meet the needs of both administrators and customers.

2. Objectives:

- Provide administrators with a comprehensive toolset for managing flight schedules, bookings, and customer data.
- Offer customers an intuitive platform to search for flights, make bookings, and manage their reservations.
- Ensure security and data privacy by implementing encryption measures.
- Enhance efficiency by automating repetitive tasks such as ticket generation.

3. Features:

A. Admin Side:

- Dashboard: Provides an overview of flight schedules, bookings, and revenue.
- Flight Management: Allows administrators to add and delete flights, including details such as departure/arrival times, destinations, and available seats.
- Booking Management: Enables administrators to view, modify, and cancel customer bookings.
- Reporting: Generates reports on key metrics such as revenue, passenger demographics, and flight performance.
- Security: Implements role-based access control and encryption to protect sensitive data.

B. Customer Side:

- Flight Search: Allows customers to search for flights based on criteria such as departure/arrival locations, dates, and preferred airlines.
- Booking: Enables customers to book flights, select seats, and make payments securely.
- Reservation Management: Allows customers to view and manage their bookings, including cancellations.

- Profile Management: Provides customers with the ability to view booking history.

4. Technologies Used:

- Frontend: HTML, CSS, JavaScript (used framework bootstrap to enhance the design of the website).
- Backend: PHP for server-side scripting, MySQL, relational database for data storage.
- Security: Password hashing, session management, input validation, and prepared statements to prevent SQL injection attacks.

5. Conclusion:

The proposed Flight Management System offers a comprehensive solution for managing flights efficiently and effectively. With its user-friendly interface, robust functionality, and focus on security, the system aims to enhance the experience for both administrators and customers while ensuring scalability and adaptability for future needs. We look forward to the opportunity to bring this project to fruition and deliver tangible benefits to our stakeholders.