ONLINE AIRLINE RESERVATION SYSTEM

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Project Introduction

- This project aims to develop an electronic system that assists travelers in booking airline tickets easily through the internet. The system allows users to search for flights, view prices, and choose suitable flights based on their preferences, in addition to facilitating secure electronic payment.

Project Objectives

1. Provide a reliable and user-friendly platform for booking flights.
2. Deliver updated information on prices and seat availability.
3. Offer multiple secure payment options for users.
4. Enable users to view their booking history and make modifications when necessary.

Key Features of the System

1. Advanced Search Interface

Allows users to search for flights based on destination, date, and seat class.

2. Seat Selection

Enables users to select their preferred seats (window, aisle, etc.).

Key Features of the System (follow)

3. Electronic Payment Options

Supports payments via credit cards, prepaid cards, and other methods like PayPal.

4. Email Notifications

Sends booking confirmations and flight updates via email.

5. Personal User Account:

Allows users to create accounts to view past bookings and modify current bookings.

Technology Used

1. Programming Languages:

PHP, JavaScript, HTML, CSS (for the user interface).

2. Database:

MySQL to store flight, user, and booking information.

Technology Used (follow)

3. Servers:

Apache or Nginx.

4. API:

APIs for integration with airlines to retrieve and update flight data.

Database Design

1. Users Table:

.User_ID: User identifier

.Name: User name

.Email: User email

.Password: User password.

Database Design (follow)

2. Flights Table:

Flight_ID: Flight identifier.

Source: Original destination.

Destination: Final destination.

Date: Flight date.

Price: Price.

Database Design (follow)

3. Bookings Table:

Booking_ID: Booking identifier.

User_ID: User identifier.

Flight_ID: Flight identifier.

Seat: Seat number.

Payment_Status: Payment status.

User Interfaces (UI)

1. Flight Search Page.
2. Flight Details Page.
3. Booking Page.
4. Booking Confirmation Page.

Workflow

1. Login or Registration.
2. Flight Search.
3. Displaying Available Flights.
4. Booking Process.
5. Confirmation Sending.

Conclusion

- An online airline reservation system is an ideal project to enhance the user experience in booking flights. This system helps save time and effort and assists airlines in increasing online booking rates.