

System Description: Web-Based Airline Reservation and Management System

Overview: The project aims to develop a comprehensive web-based system for a single airline company, catering to a diverse range of users, including tourism agents, airline agents, and system administrators. This system provides a user-friendly interface for browsing available flights, making reservations, managing flight data, and ensuring a seamless and efficient travel experience. The system offers a variety of features and functionalities tailored to meet the specific needs of each user category.

Key Functionalities:

For Users and Airline Agents:

1. **Browsing Available Flights:**
 - Users and airline agents can search for and view a list of available flights to specific destinations by entering their current location and desired endpoint.
2. **Selecting Desired Flights:**
 - Users can select their preferred flight from the list, which offers comprehensive details about each flight, including routes, costs, and class options.
3. **Browsing Seat Maps Graphically:**
 - After selecting a flight, users and airline agents can graphically explore the seating arrangements using seat maps.
4. **Selecting Desired Seats:**
 - Users can choose their preferred seats, which include ordinary, comfort, and business-class options.
5. **Selecting Ticket Cancellation Insurance:**
 - During the booking process, users have the option to purchase ticket cancellation insurance, which provides coverage for unexpected trip cancellations.
6. **Making Payments:**
 - Users complete their bookings by providing payment details, such as credit card information, name, address, and contact details.
7. **Receiving Tickets via Email:**
 - Upon successful payment, users and airline agents receive their flight tickets via email, which includes essential travel information.
8. **Receiving Payment Receipts via Email:**
 - Users and airline agents also receive email receipts for their payments, summarizing transaction details.
9. **Flight Cancellation:**
 - Users can initiate flight cancellations, and the system sends a confirmation email for canceled bookings.

For Airline Agents and Flight Attendants:

1. **Browsing List of Passengers in a Flight:**

- Airline agents and flight attendants can access and view the list of passengers for a specific flight, including passenger names, seat numbers, and contact details.

For System Admins:

1. Managing Flight Information:

- System administrators have the ability to manage flight-related information in the database, including:
 - Browsing lists of flights.
 - Browsing list of crews.
 - Browsing list of aircraft
 - Adding or removing crew members.
 - Adding or removing aircraft.
 - Adding, removing, or modifying flight destinations.
 - Managing flight-specific information, ensuring it is up to date.
 - Printing lists of registered users for record-keeping and communication purposes.

Additional Information:

1. Seat Options and Pricing:

- The system allows users to choose from different seat types, including Ordinary, Comfort, and Business-Class. Pricing varies accordingly, with Comfort seats costing approximately 40% more than Ordinary seats, and Business-Class seats being priced at more than double the cost of Ordinary seats.

2. Registered Users:

- Registered users can enjoy additional benefits, including:
 - Receiving monthly promotion news.
 - Accessing airport lounges at discounted rates.
 - Receiving a complimentary companion ticket once a year.
- Registered user information, such as name, address, and more, is securely stored in the company's database.