

Airline Reservation System

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Abstract: *The Airline Reservation System is a web-based or desktop application designed to automate the process of booking, managing, and scheduling airline flights. It allows customers to search for available flights, book tickets, manage reservations, and receive confirmation digitally. The system also provides administrative features for airline staff, including flight management, passenger lists, and seat allocation. By integrating databases and real-time updates, the system ensures efficient handling of flight details, passenger information, and payment transactions. This project aims to improve user convenience, reduce manual work, and enhance operational efficiency in the airline industry.*

The Airline Reservation System is a computerized system developed to manage air travel bookings and streamline the reservation process for both customers and airline staff. This system enables users to search for flights, check seat availability, book or cancel tickets, and make secure payments online. It provides a user-friendly interface for customers and an administrative panel for airline employees to manage flight schedules, pricing, seat arrangements, and passenger data.

With the rise of digital transformation in the travel industry, the system is designed to reduce manual workload, minimize human error, and increase operational efficiency. It integrates essential modules such as user registration, flight management, reservation handling, payment processing, and report generation. Additionally, it ensures data integrity and real-time updates through the use of a centralized database system.

Security features are implemented to protect user data and transactions, while the backend supports scalability for high-volume traffic. The system may be deployed as a web or mobile application to improve accessibility for users across the globe.

In conclusion, the Airline Reservation System enhances the travel booking experience, automates critical airline functions, and contributes to a more organized and efficient aviation operation.

Keywords: Airline Reservation System

