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## **Airline Management System**

**Background :**

The aviation industry has witnessed a substantial increase in global air travel, necessitating the need for an efficient and modernized Airlines Reservation System. Traditional methods are no longer adequate to meet the demands of today's tech-savvy and fast-paced travellers. An Airline Management System is designed to oversee all aspects of airline operations. From scheduling flights to managing air ticket reservations, handling flight cancellations, providing customer support, and efficiently managing staff, the system plays a crucial role in streamlining operations. Our project aims to address this need by developing a comprehensive database architecture for an Airlines Management System.

**Purpose:**

The primary purpose of the Airlines Reservation System is to streamline the entire process of flight reservations, enhancing customer experience, and optimizing airline operations. This system will serve as the backbone for managing flight information, passenger data, and ensure a smooth and secure transaction process.

**Objective:**

To enhance flight operations, we propose implementing an efficient Flight Management System that optimizes resource utilization and adapts to the dynamic nature of air travel. This system will prioritize seamless flight scheduling while accommodating changes in real-time. Air ticket reservations will be developed, ensuring a smooth booking experience for passengers. Real-time updates will be enabled to provide accurate and timely information on daily flight schedules. To address disruptions, a secure process for managing flight cancellations will be implemented, offering passengers suitable alternatives. Integrating a customer support module will enhance passenger assistance throughout their journey. Finally, a staff management module will be created to coordinate staff activities, including training, and communication, ensuring a well-coordinated team to support the airline's operations.

**Scope Document****Project Scope:**

The project scope encompasses the development of a comprehensive airline management system with several key components. Firstly, the establishment of a centralized database is crucial for efficiently managing and organizing essential data, including flight schedules, passenger information, and reservations. To ensure the integrity and security of the system, there will be an implementation of a robust authentication system for both customers and airline staff. In addition, the project will focus on enhancing the user experience by integrating with secure payment gateways, facilitating seamless and protected online transactions. Real-time updates will be a pivotal feature, providing timely information on flight availability, schedules, and any changes to both customers and airline staff.

The user-centric approach extends to the design of user-friendly interfaces for both customers and airline staff, promoting ease of use and efficient interaction with the system. Furthermore, the project aims to incorporate seat reservation functionality, allowing passengers to customize their experience based on preferences.