DAMG 6210 – Topic Presentation and Purpose

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Github link : https://github.com/arnavvaryani/Airhub

Air Hub: Database Management System for Airplane Conveyance

Project Overview:
The objec1ve of our project is to develop a comprehensive database management system for an airplane conveyance management system. This centralized database will be designed to efficiently store, organize, manage, and maintain all data associated with the airline's opera1ons. It will encompass crucial informa1on related to flight schedules, passenger details, 1ckets, aircraE, and crew members.

Background:
Air travel is an integral part of modern life, with a growing number of people choosing airplanes for their transporta1on needs. To ensure the smooth opera1on of airline services, it is impera1ve to have a robust and well-organized database system. Outdated systems can result in scheduling errors, passenger inconveniences, and opera1onal inefficiencies. The need for an upgraded database management system is paramount to prevent these issues and enhance the overall efficiency of airplane conveyance.

Mission Statement/Objec1ve:
1.   Streamlining Airline Opera1ons: Our primary goal is to integrate all relevant informa1on within a centralized database, facilita1ng easy access and interpreta1on for both airline staff and passengers.

2.   Informed Decision-Making: The system will provide a comprehensive historical and real-1me dataset, enabling the airline to derive valuable insights into customer preferences, flight performance, and crew evalua1ons.

3.   Eleva1ng Passenger Experience: The system will empower airline staff to ensure punctuality and accuracy in services, leading to a more user-friendly engagement for passengers. Timely departures, simplified booking processes, and clear flight routes contribute to an enhanced travel experience.

4.   Cost Efficiency: By implemen1ng a digital infrastructure and strategic planning, the system will facilitate automated billing processes, reducing the reliance on paper and ensuring costeffec1ve travel experiences for both passengers and the airline.

5.   Data Security: Recognizing the sensi1vity of user and system data, the system will priori1ze stringent security measures. Access to cri1cal data will be restricted to authorized personnel responsible for managing essen1al opera1ons.

6.   Scalability and Adaptability: Designed to accommodate the dynamic nature of the airline industry, our system is built to support the growth and evolving needs of the airline company. It can seamlessly adapt to changes in the industry and ensure sustained opera1onal excellence.