Synopsis

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Project Title:- ONLINE FLIGHT BOOKING SYSTEM

1.INTRODUCTION

The **Online Flight Booking System** is a modern solution designed to simplify the process of booking airline tickets. Traditionally, customers had to visit travel agencies or airline offices to book flights, which was time-consuming and often inconvenient. With the rise of the internet and online services, the demand for a faster, more accessible booking system has grown significantly. This project aims to provide a digital platform where users can browse available flights, check seat availability, compare prices, and make bookings from the comfort of their own homes or on the go.

The system is developed using **Java**, a robust and widely used programming language that supports the creation of secure, scalable, and reliable applications. The platform will include features for both users and administrators. Users will be able to search for flights based on criteria like destination, date, and airline, and will have the option to book and pay for tickets online. On the other hand, administrators can manage flight schedules, bookings, and customer data.

Objectives:

1. **Easy Flight Booking**: Provide a simple and user-friendly platform for customers to search and book flights online.

2. **Reduce Manual Work**: Automate the booking process to save time and effort for both users and airline staff.

3. **Live Flight Information**: Display up-to-date flight details like available seats, timings, and fares.

4. **Secure Payments**: Allow users to pay for their bookings online using secure payment methods.

5. **Account Management**: Enable users to create accounts to view booking history and receive flight updates.

6. **Admin Tools**: Provide features for administrators to manage flight schedules, bookings, and customer data.

HARDWARE & SOFTWARE REQUIREMENTS

Hardware Requirements

Processor	:	Intel i3 13th gen.
RAM	:	8GB RAM
Monitor	:	15" Color Monitor
Keyboard		
Mouse		

Software Requirements

Operating system	:	Windows 11
Developing Tool	:	Eclipse IDE ,Visual Studio Code
Database	:	My-Sql Workbench

Front End:

Html ,Css ,JavaScript.

Back End:

 Java ,My-Sqli

Limitations:

1. **Limited Payment Methods**: The system might only support a few payment options, which could be inconvenient for some users.

2. **Internet Required**: Users need an internet connection to access the system, making it unusable offline.

3. **Handling Large Traffic**: The system may face challenges when many users are trying to book flights at the same time.

4. **Dependence on Airlines**: The flight details and availability shown depend on how often airlines update their schedules.

5. **Security Concerns**: Like any online system, there are risks of security breaches if proper measures are not in place.

Conclusion:

The **Online Flight Booking System** offers a convenient and efficient way to book flights. It simplifies the process for users and reduces the workload for airline staff. While the system has some limitations, like needing internet access and having limited payment options, it still provides a valuable solution for booking flights online. With some improvements, such as adding more payment options and increasing the system's ability to handle high traffic, it can be even more useful and effective.