

Flight Management System

Streamlining the travel experience with real-time flight data and seamless booking.

Meet Our Team

This project was brought to life by the following talented individuals:

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About

The Flight Management System (FMS) is a comprehensive Java-based application designed to streamline the process of booking and managing flight tickets. It integrates data from various airline carriers to provide users with real-time access to flight details, pricing, and availability.

► Technologies Used

Introduction

1

Real-time Flight Information

Users can search and view available flights, check prices, and make informed decisions based on current data.

2

Booking and Reservations

The system enables users to book, cancel, view, and update their reservations seamlessly.

3

User and Admin Roles

The system is designed for two types of users: Customers can create an account, log in, search for flights, make bookings, view, cancel, or modify their bookings. Administrators can manage flights, schedules, and routes, ensuring efficient and streamlined operations.

Modules Overview

User Authentication and Registration

Handles user registration, login, email verification, and password reset.

Booking Passenger Management

Manages booking and reservation processes, including cancellation and modification.

Flight Management

Handles the creation, modification, and viewing of flight details.

Admin Dashboard

Manage and View Airports

Administrators can add, manage, and view details of various airports.

Manage and View Routes

Administrators can create, update, and view flight routes.

Manage and View Flights

Administrators can add, modify, and view flight details.

View User Feedback

Administrators can access and resolve valid feedback from users.

View User Details

Administrators have access to view user information to manage accounts effectively.

Customer Dashboard



Create User Account

Users can register by providing their details.



Login

Users can log in to access their dashboard.



Search for Flights

Users can check for available flights by selecting source and destination airports.



Book Flights

Users can book tickets by selecting the desired flight, time slot, and entering passenger details.



View Bookings

Users can view the details of their current and past bookings.



Cancel or Modify Bookings

Users have the option to cancel or modify their bookings if needed.

Enter User Id:

Enter username

Enter Password:

Enter password

Submit

User Authentication and Registration

1

User registration and login

Handles the process of user registration and login.

2

Email verification and password reset

Provides functionality for email verification and password reset.

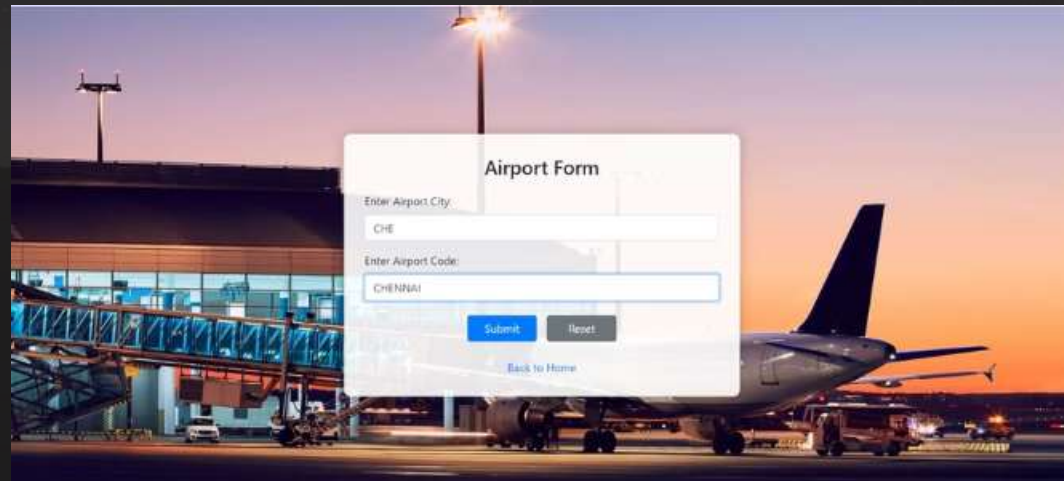
Airports

Our platform offers a robust solution for managing airport and flight information. The database schema defines the structure for storing this data, while the interface allows administrators to easily manage flight availability. The backend functionality handles the intricate logic behind these operations, ensuring efficient and streamlined management.

Overvi...

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Overview



Airport Form

Enter Airport City:


CHE

Enter Airport Code:

CHENNAI

[Submit](#) [Reset](#)

[Back to Home](#)



All Airports

Airport Code	Airport Location	Enquire
HYD	HYDERABAD	Enquire
CHE	CHENNAI	Enquire
MUM	MUMBAI	Enquire
PUNE	PUNE	Enquire
ARU	ARUNACHAL	Enquire

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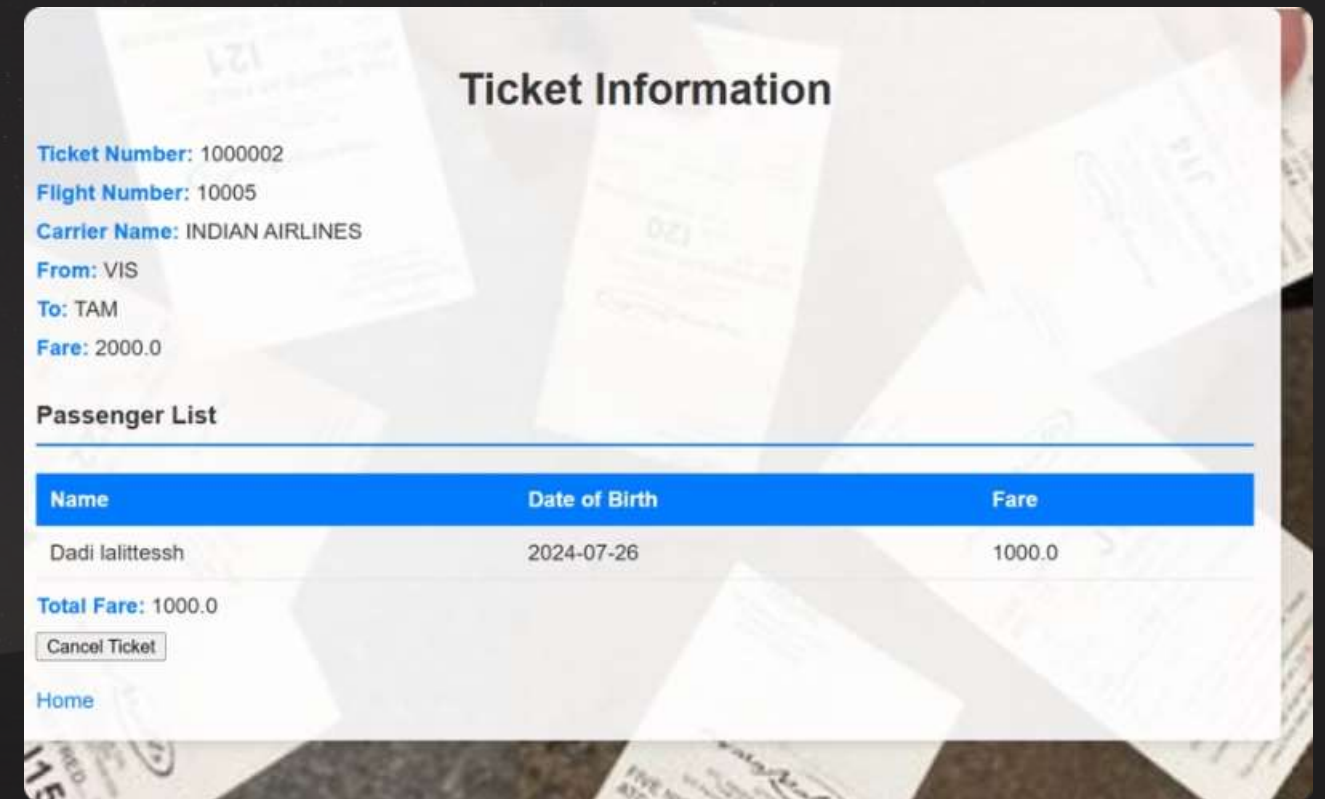
Flight Booking Made Easy



The screenshot shows a flight booking form with a background image of an airplane. The form includes fields for Ticket Number (1000002), Flight Number (10005), Airlines Name (INDIAN AIRLINES), From (VIS), To (TAM), and Fare (2000.0). Below these are three sections for "Enter Passenger Details:", each with a Name field (the first contains "Dadi lalittessh") and a Date of Birth field (the first contains "26-07-2024"). A "Submit" button is at the bottom.

Seamless Booking

Enjoy a streamlined and hassle-free experience when booking your flights with our comprehensive platform.



The screenshot shows a flight booking confirmation page titled "Ticket Information". It displays the same details as the form: Ticket Number: 1000002, Flight Number: 10005, Carrier Name: INDIAN AIRLINES, From: VIS, To: TAM, Fare: 2000.0. Below this is a "Passenger List" section with a table:

Name	Date of Birth	Fare
Dadi lalittessh	2024-07-26	1000.0

Below the table, it shows "Total Fare: 1000.0", a "Cancel Ticket" button, and a "Home" link.

Intuitive Experience

Our user-friendly interface simplifies the flight search and booking process, making it a breeze for our customers.

Route Schedule Management

- 1 Intuitive Interface**
Streamlined tools for administrators to easily view and manage flight schedules.
- 2 Robust Backend**
Powerful backend systems that efficiently handle flight schedule logistics and prevent conflicts.
- 3 Comprehensive Database**
A robust database architecture to store and organize all critical flight schedule data.

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Overview

Enter Route Details

Enter Source City:

Hyderabad

Enter Destination City:

Arunachal

Enter Route Fare:

2000

Submit

Reset

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All Routes

Route-id	Source Airport Code	Destination Airport Code	Route Fair
101	HYD	CHE	1500.0
102	CHE	HYD	1500.0
103	HYD	MUM	1500.0
104	MUM	HYD	1500.0
105	PUNE	CHE	1500.0
106	CHE	PUNE	1500.0
107	HYD	ARU	2000.0
108	ARU	HYD	2000.0

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Conclusion

The developed FMS significantly enhances the flight booking and management experience, offering a user-centric approach that simplifies the process for both travelers and administrators. While some features like boarding pass generation and third-party integrations are left for future development, the current system provides a robust foundation for efficient flight management.

Secure User Authentication: A robust system that allows users to create and manage their accounts securely.

- **Seamless Booking Process:** Users can easily search for flights, book tickets, and manage their itineraries.
- **Efficient Flight Management:** Administrators have the tools to manage flight details, schedules, and add new flights with ease.
- **High Performance and Security:** Ensures a smooth user experience and protects against potential threats.

Future Enhancements



Boarding Pass Generation

Integrating the functionality to generate boarding passes directly within the system, allowing users to access their boarding passes digitally.



Seat Selection

Implementing a feature that allows users to select their preferred seats during the booking process, enhancing personalization and convenience.



Real-Time Flight Updates

Incorporating real-time flight status updates to keep users informed about any changes or delays, ensuring they are always up-to-date.

Thank You

We appreciate your time and attention throughout this presentation. The Flight Management System we've outlined offers a comprehensive solution to streamline your air travel operations.