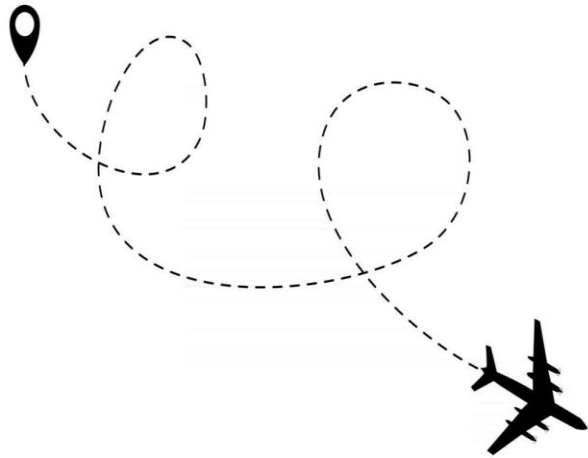


# Flight Management System



## Team Members:

1. Gangothi
2. Ojas Tyagi
3. Ruchi Binayake
4. Srivardan Patel

# Introduction

- The Flight Management System is a cutting-edge , Java –based booking solution designed to simplify the process of booking and managing flight tickets.
- With its real-time consolidation of data from multiple airline carriers ,the time system provides users with accurate and up-to-data information on available flights , routes .
- This intuitive and user friendly application empowers travelers to make informed decisions about their travel plans ,while also streamlining the management of booking for administrators.

# Software Requirements

## FrontEnd:

- HTML
- CSS
- JavaServerPages (Jsp)
- Java Script

## BackEnd:

- Java
- Spring Data Jpa
- Spring Boot
- Spring Security

## DataBase:

- My SQL

# Project Overview

## Admin Features:

- Create a New Account.
- Login with username and password.
- Add and View Airports, Flights, and Routes details.
- Book Flight
- Modify Airports, Flights, and Routes.
- View Passengers Details
- View Tickets Bookings

## Customer Features:

- Create a New Account.
- Login with username and password.
- View Airports, Flights, and Routes.
- Book a flight by selecting a flight and passenger details.
- Search for Available Flights by source and destination.
- Cancel the Flight if necessary.

# DASHBOARD

For easy navigation, this flight management system considers a proper dashboard for the Admin and the Customer. There are different dashboards based on user type either Admin or Customer with different privileges.





# AIRPORT PAGE

Add Airport

**Add Airport**

Airport Code:

Airport Location:

About Airport:

[Submit](#)

[Back to home](#)



**Airport Report**

Airport Code	Airport Location	Enquire
AGR	AGRA	<a href="#">Enquire</a>
BAG	BANGALORE	<a href="#">Enquire</a>
CHE	CHENNAI	<a href="#">Enquire</a>
DEH	DEHRADUN	<a href="#">Enquire</a>
DEL	DELHI	<a href="#">Enquire</a>
HYD	HYDERABAD	<a href="#">Enquire</a>
JAM	JAMMU	<a href="#">Enquire</a>

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Airport Report



Modify Airport

**Update Airport Details**

Enter Airport Code

Enter Airport Location

Enter Airport Details

[Update Airport](#)

[Back to home](#)

**Airport Details**

Airport Code: AGR

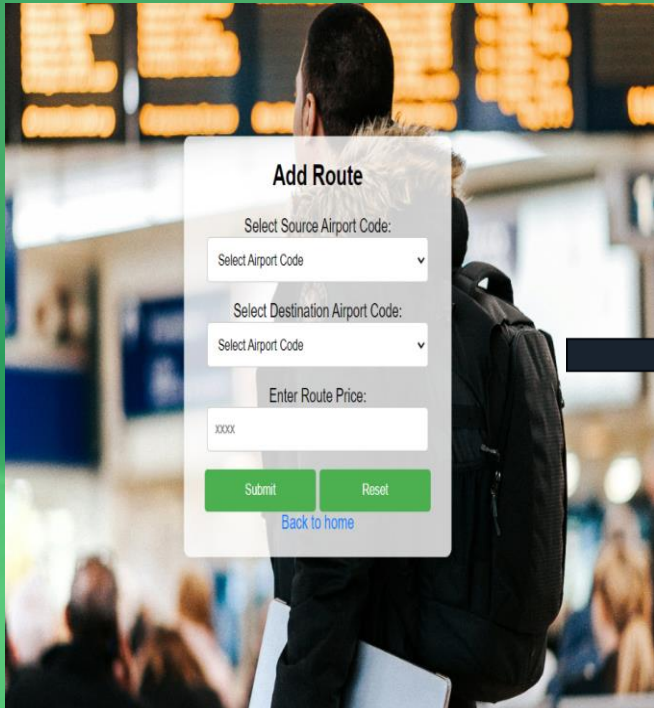
Airport Location: AGRA

About Airport: demo information about agra

[Back](#)

Airport Details

# ROUTE PAGE



**Add Route**

Select Source Airport Code:

Select Airport Code

Select Destination Airport Code:

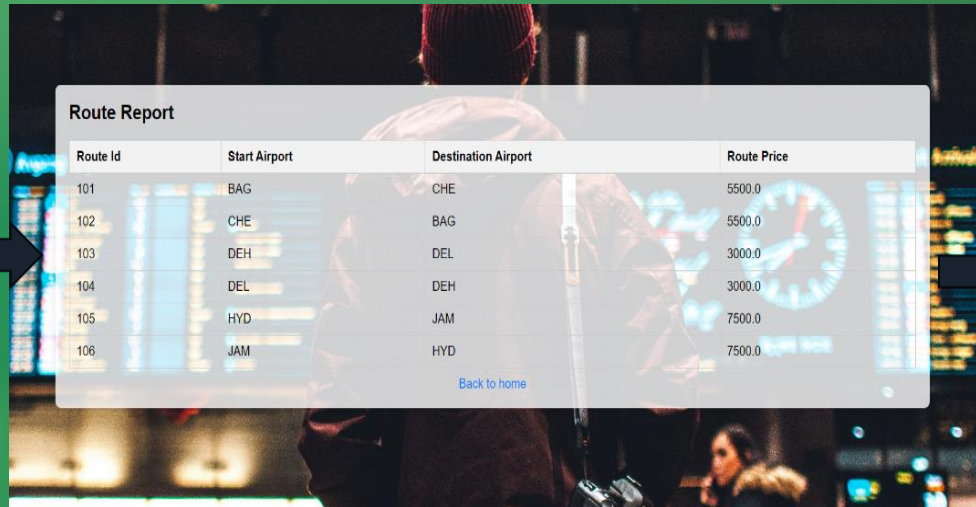
Select Airport Code

Enter Route Price:

xxxx

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Add Route



**Route Report**

Route Id	Start Airport	Destination Airport	Route Price
101	BAG	CHE	5500.0
102	CHE	BAG	5500.0
103	DEH	DEL	3000.0
104	DEL	DEH	3000.0
105	HYD	JAM	7500.0
106	JAM	HYD	7500.0

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Route Details



**Update Route Details**

Enter Route Code:

Select Route Code

Select Source Airport Code:

Select Airport Code

Select Destination Airport Code:

Select Airport Code

Enter Route Price:

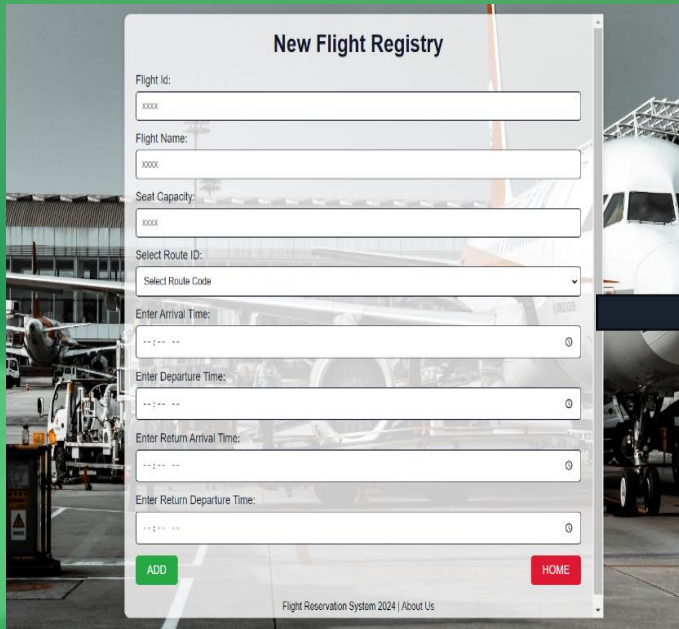
xxxx

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Modify Route



# FLIGHT PAGE



**New Flight Registry**

Flight Id:

Flight Name:

Seat Capacity:

Select Route ID:

Enter Arrival Time:

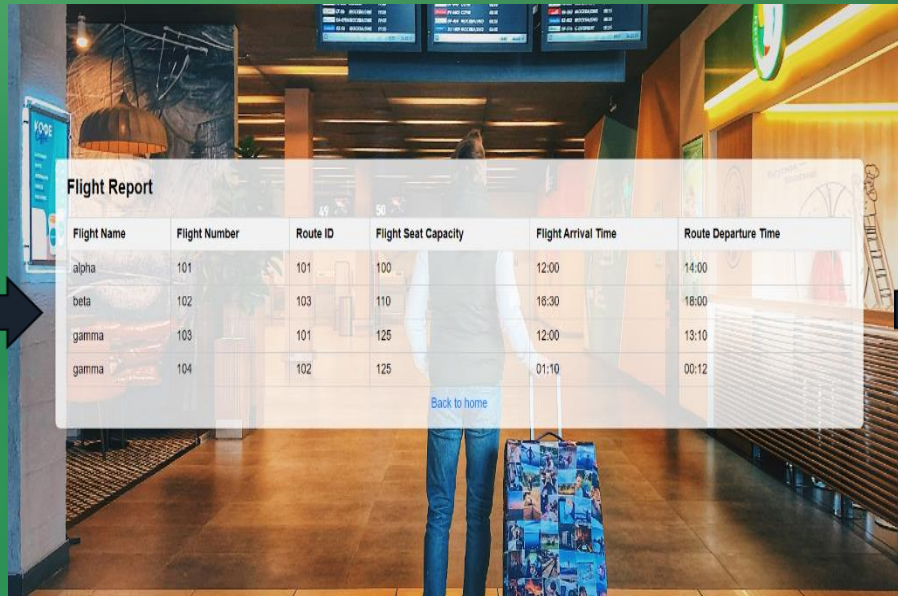
Enter Departure Time:

Enter Return Arrival Time:

Enter Return Departure Time:

Flight Reservation System 2024 | About Us

Add New Flights

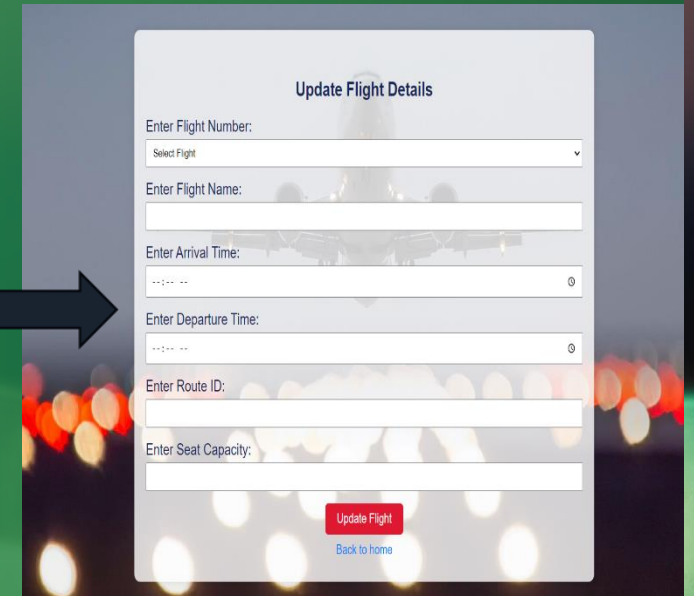


**Flight Report**

Flight Name	Flight Number	Route ID	Flight Seat Capacity	Flight Arrival Time	Route Departure Time
alpha	101	101	100	12:00	14:00
beta	102	103	110	16:30	18:00
gamma	103	101	125	12:00	13:10
gamma	104	102	125	01:10	00:12

[Back to home](#)

View Flight Details



**Update Flight Details**

Enter Flight Number:

Enter Flight Name:

Enter Arrival Time:

Enter Departure Time:

Enter Route ID:

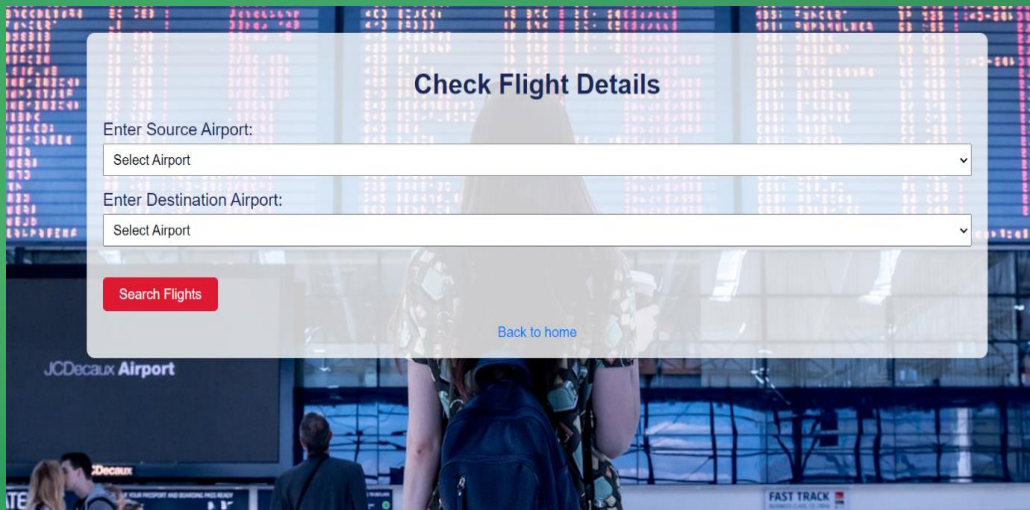
Enter Seat Capacity:

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Modify Flight



# BOOKING PAGE



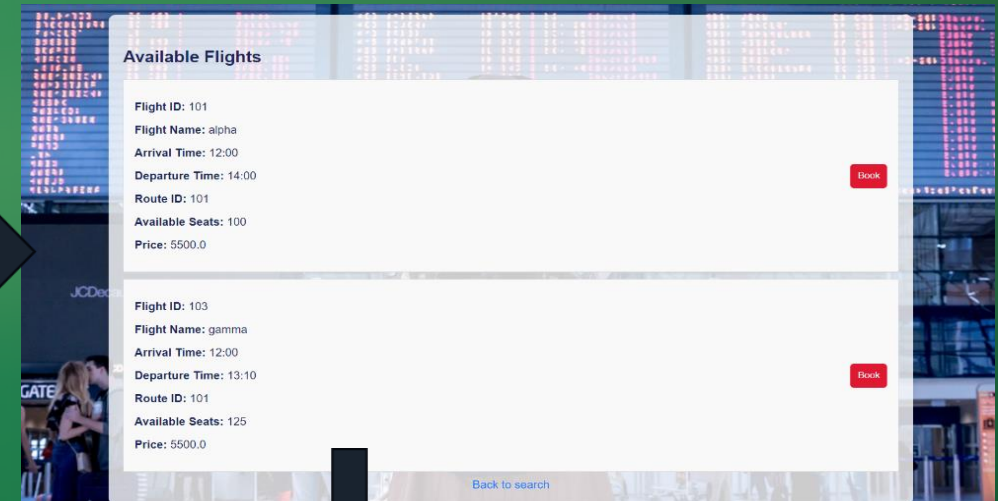
**Check Flight Details**

Enter Source Airport:

Enter Destination Airport:

[Search Flights](#)

[Back to home](#)



**Available Flights**

Flight ID: 101  
Flight Name: alpha  
Arrival Time: 12:00  
Departure Time: 14:00  
Route ID: 101  
Available Seats: 100  
Price: 5500.0

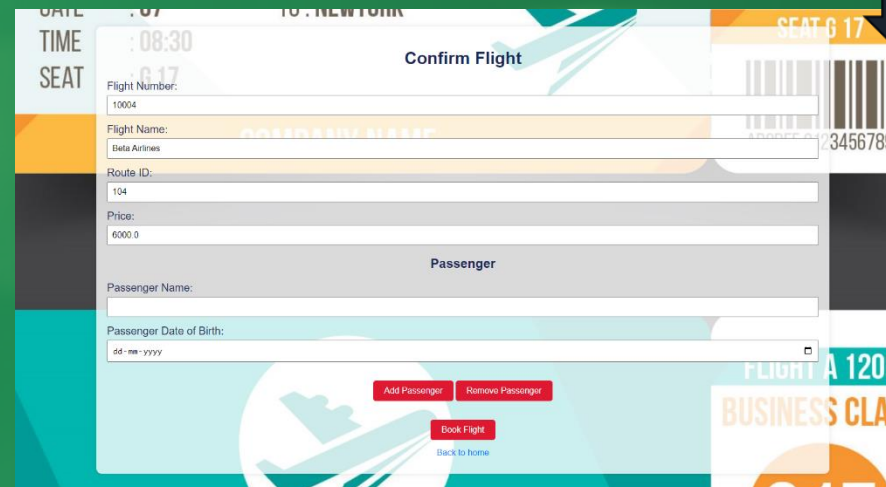
[Book](#)

Flight ID: 103  
Flight Name: gamma  
Arrival Time: 12:00  
Departure Time: 13:10  
Route ID: 101  
Available Seats: 125  
Price: 5500.0

[Book](#)

[Back to search](#)

Check Flight Details



**Confirm Flight**

Flight Number: 10004  
Flight Name: Beta Airlines  
Route ID: 104  
Price: 6000.0

**Passenger**

Passenger Name:

Passenger Date of Birth:

[Add Passenger](#) [Remove Passenger](#)

[Book Flight](#)

[Back to home](#)

Available Flights

Add Passenger Details

# TICKET INVOICE

These pages will allow the customer to view their bookings and cancel any ticket if required the cancellation work is based on entering the ticket number.

**Ticket Invoice**  
Ticket Number: 1000002  
Route ID: 104  
Flight Number: 10004  
Carrier Name: Beta Airlines  
Total Amount: 6000.0  
**Passengers**  
Passenger Name: Abhinav Tyagi  
Passenger Date of Birth: 2003-07-24  
Fare: 6000.0  
[Back to home](#)



**Ticket Details**  
Ticket Number: 1000001  
Route ID: 103  
Flight Number: 102  
Flight Name: beta  
Total Amount: 5100.0  
**Passengers**  
Passenger Name: testuser1  
Passenger Date of Birth: 2007-09-16  
Individual Price: 3000.0  
Passenger Name: testuser2  
Passenger Date of Birth: 1950-08-24  
Individual Price: 2100.0  
[Cancel Booking](#)  
\* 10% will be deducted as cancellation fee

# Conclusion

In conclusion, our Flight Management System project has successfully met its objectives, providing a comprehensive and user-friendly platform for managing flight bookings, user accounts, airport information, and routes. Throughout the project, we implemented several key functionalities, including the addition and viewing of flights, users, airports, and routes, as well as the ability to edit existing records.

We have also integrated robust exception-handling mechanisms to ensure the system's reliability and user-friendly error messaging. This has enhanced the overall user experience and system stability.

Our dynamic passenger addition feature allows users to book flights for multiple passengers seamlessly, and the seat booking system ensures accurate tracking and updating of available seats. The system's capability to dynamically calculate ticket prices based on passenger age and apply appropriate discounts demonstrates its flexibility and attention to user needs.

The development process has been an excellent learning experience, providing valuable insights into Java Spring Boot, JSP, and various web development technologies.

*Thank You!*