

● TEAM 3

# FLIGHT MANAGEMENT SYSTEM



# TEAM MEMBERS

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**Suyash Khare**

**Anshul Pawar**

**Harshith Challu**

**Mallika Gajjala**

**Meghana Gaonkar**

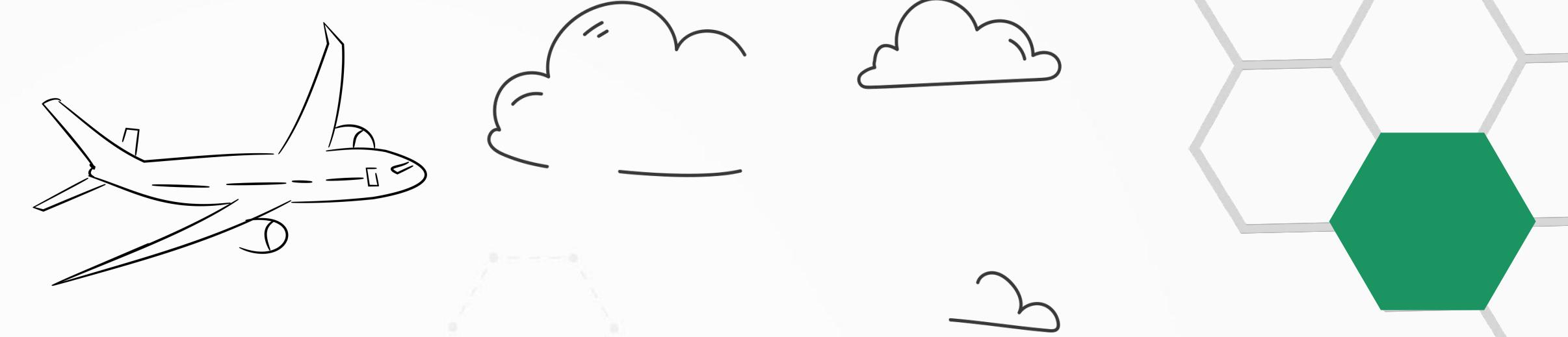
# MENTOR

**Sanjeev G**

**Infosys  
Springboard**



# Introduction



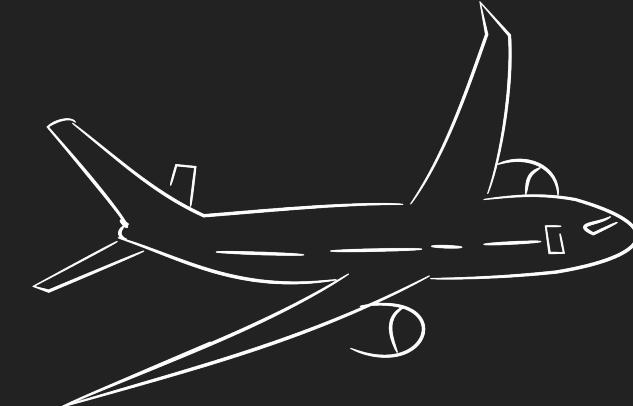
- The Flight Management System is a cutting-edge, Java-based booking solution designed to simplify the process of booking and managing flight tickets.
- With its real-time consolidation of data from multiple airline carriers, the system provides users with accurate and up-to-date information on available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



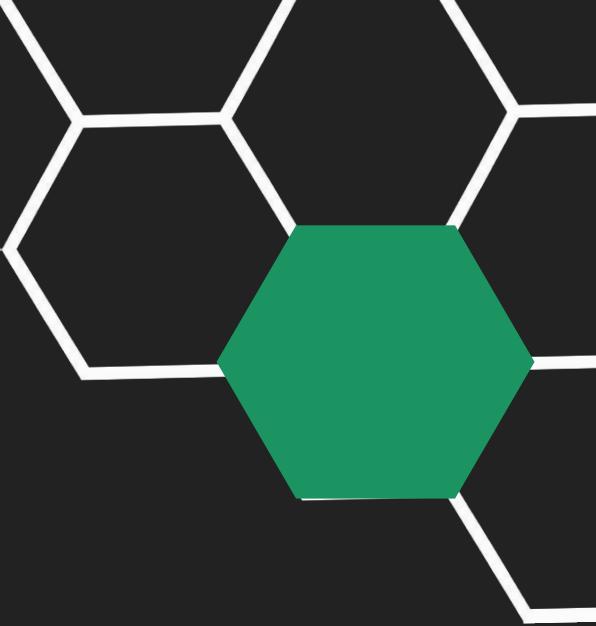
# Project Overview

## CUSTOMER FEATURES

- **CREATE** A NEW USER ACCOUNT TO ACCESS THE APPLICATION.
- **LOGIN** WITH YOUR USERNAME AND PASSWORD.
- **SEARCH** FOR AVAILABLE FLIGHTS BY DATE AND DESTINATION.
- **BOOK A FLIGHT** BY SELECTING YOUR PREFERRED FLIGHT AND PROVIDING PASSENGER INFORMATION.
- **VIEW** PAST BOOKINGS, INCLUDING FLIGHT DETAILS AND PASSENGER INFORMATION.
- **CANCEL OR MODIFY** A PREVIOUSLY BOOKED FLIGHT IF NECESSARY.



# Project Overview

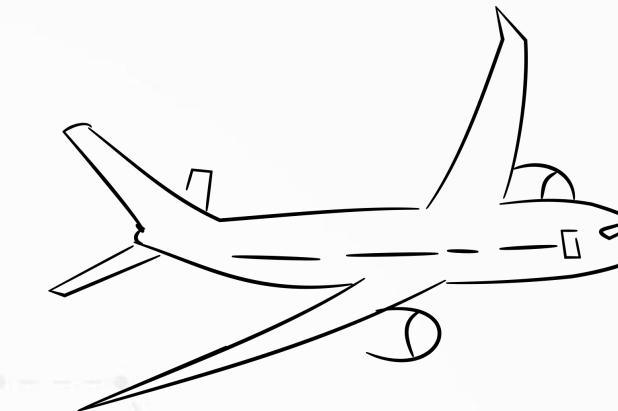


## Administrator Features

- **Login** into the application to manage flights.
- **Add** flight, schedule, and route details, including information such as flight numbers, departure and arrival times, and routes.
- **View** existing flight, schedule, and route details for easy reference.
- **Cancel or modify** flight, schedule, and route details as needed.



# MILESTONE



1

The system allows users to register, log in, and verify email addresses, with password reset functionality and security measures to protect user data.

2

Database schema for airport and flight information includes tables to store details like: Airports, Flights, Schedules, and Availability.

3

Design a user-friendly flight booking interface. Implement functionality for users to select flights, time slots, and airports. Integrate the scheduling interface with the backend for secure booking details storage.

4

Design a database schema to store flight schedule details. Implement backend functionality for booking, conflict prevention, and scheduling management. Develop an intuitive interface for flights and passengers to view and manage schedules.



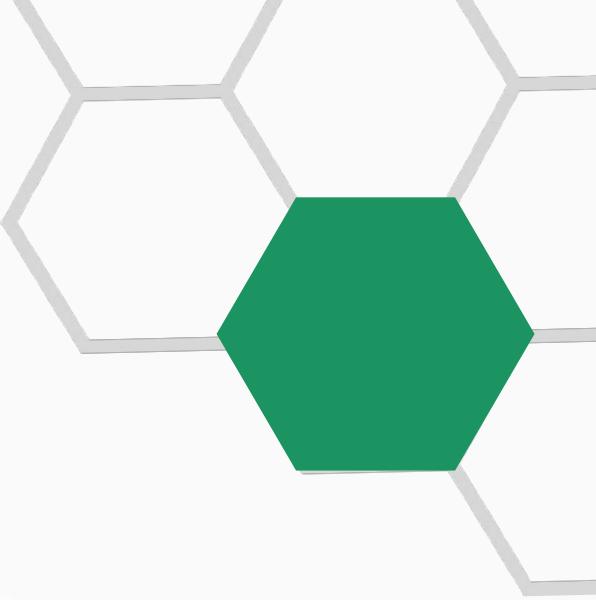
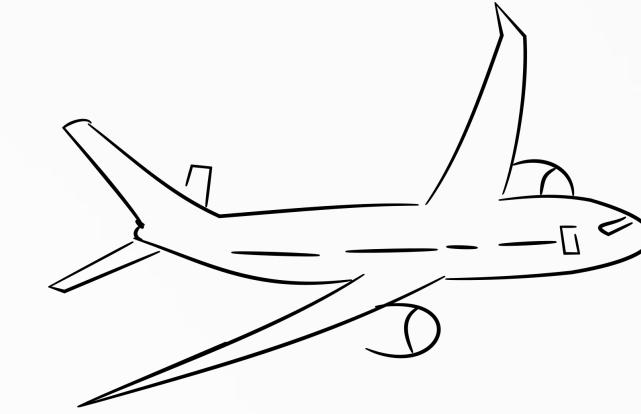
# REQUIREMENT SPECIFICATION

## HARDWARE REQUIREMENT :

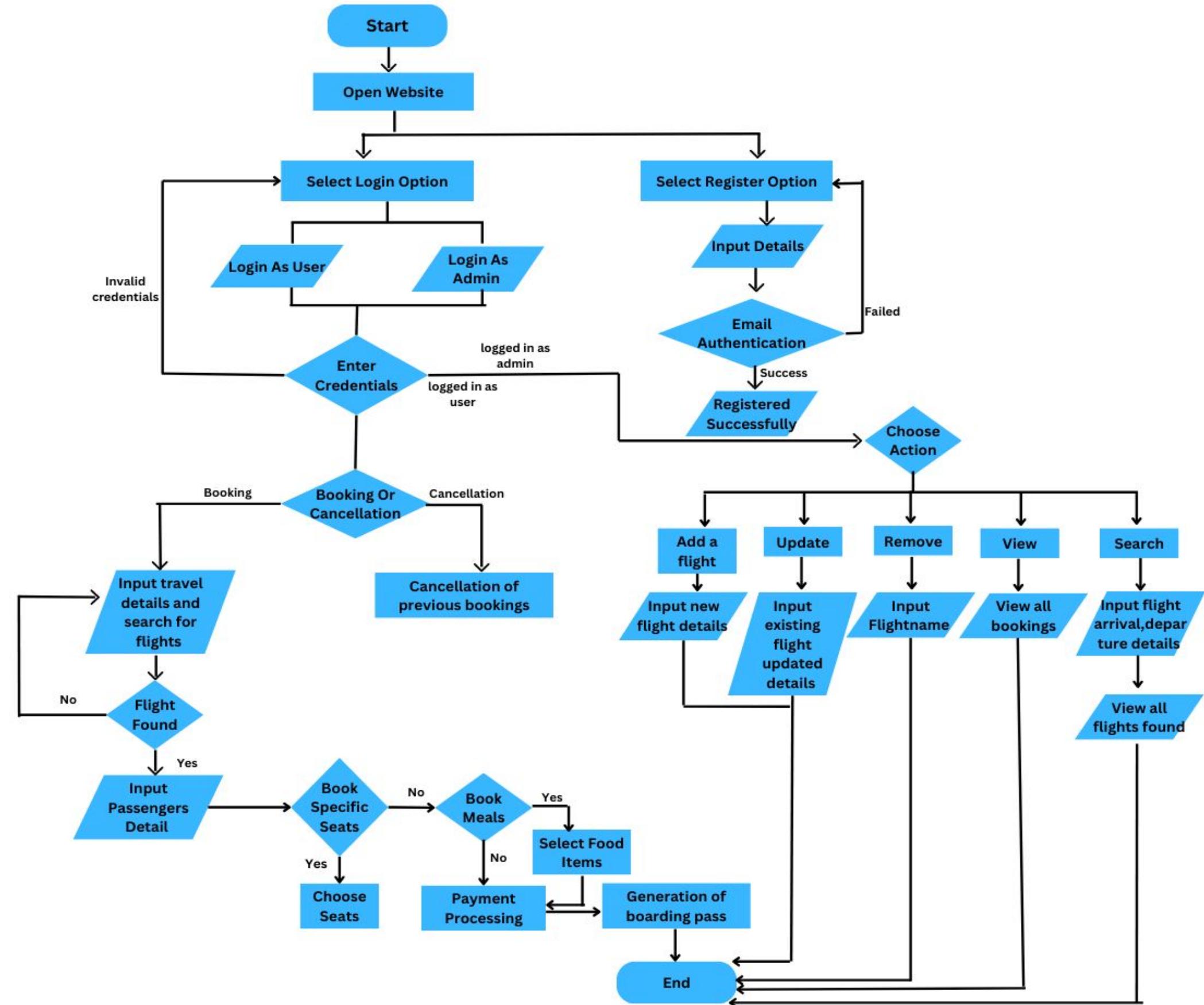
- ❖ Intel i3 CPU or higher.
- ❖ Hard disk-20GB.
- ❖ RAM-2GB or more.
- ❖ Windows 7 (64-bit) or higher/  
MacOS(64-bit) or higher,

## SOFTWARE REQUIREMENT :

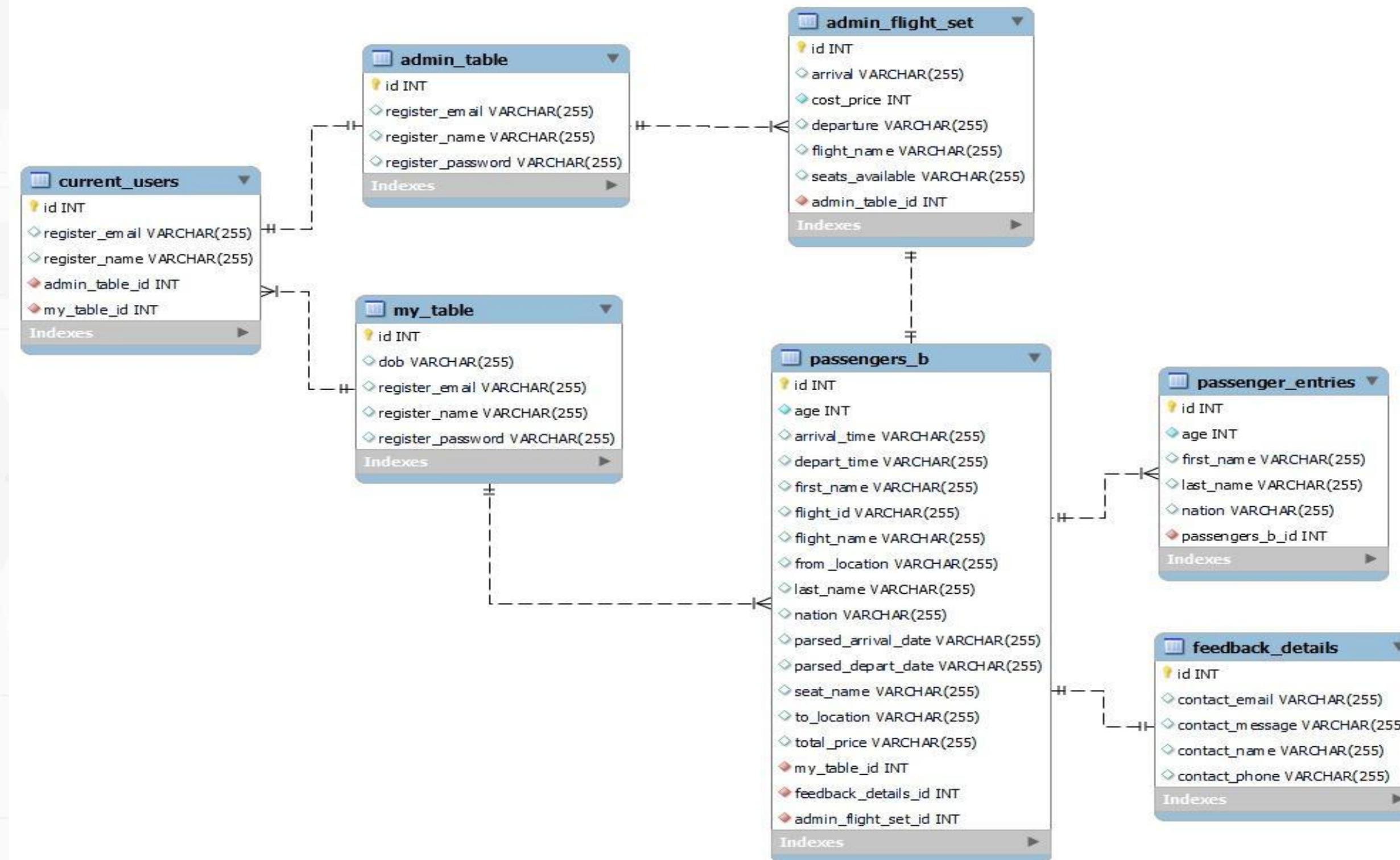
- ❖ Language java.
- ❖ Spring boot .
- ❖ Eclipse.
- ❖ Mysql.
- ❖ Chrome,safari or other browser.



# Flow Chart:



# Class Diagram



# Landing Page



FlyHighHub.com

- Dashboard
- About Us
- Our Service
- Contact Us
- Sign Out

Flight Management System

Login   Register

[f](#) [t](#) [G](#)

Username

Enter Password

Remember me

Login

Login as admin

[Forgot your password](#)

Flight Reservation System 2024

localhost:8090/sessionid=49FF630D25B756764F2B8B0E83D9BB36#

# User Registration



FlyHighHub.com

- Dashboard
- About Us
- Our Service
- Contact Us
- Sign Out

Flight Reservation System 2024

Flight Management System

Register

user1

user1@gmail.com

.....  
Password is strong  
.....  
Password match  
14-12-2000

I agree to terms and conditions

OTP Authentication



@gmail.com

Your OTP for email verification is: 448503

Reply

Forward



FlyHighHub.com

- 
- Dashboard
  - About Us
  - Our Service
  - Contact Us
  - Sign Out

Flight Management System

Please Check Your E-mail

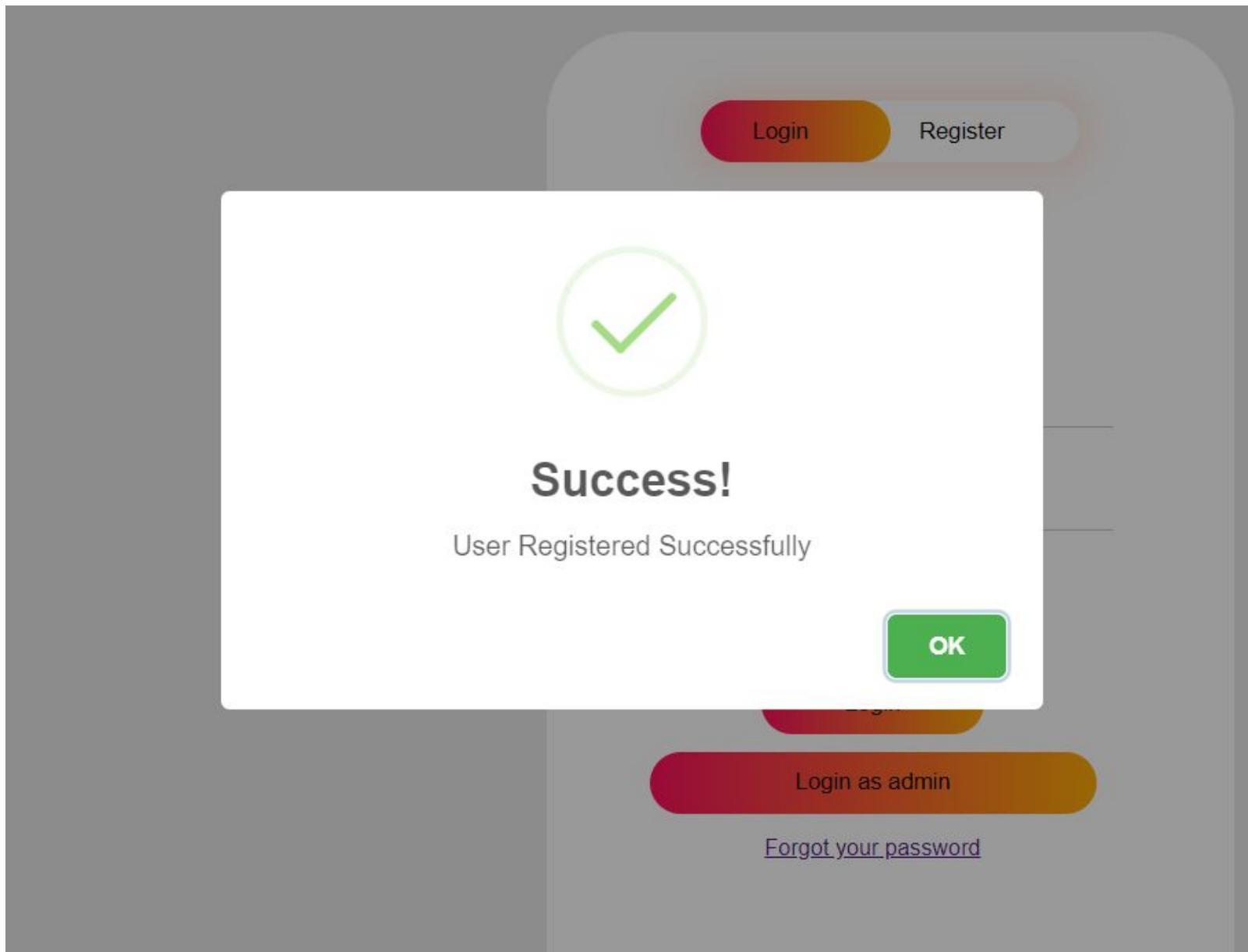
Enter Your OTP  
448503

Submit

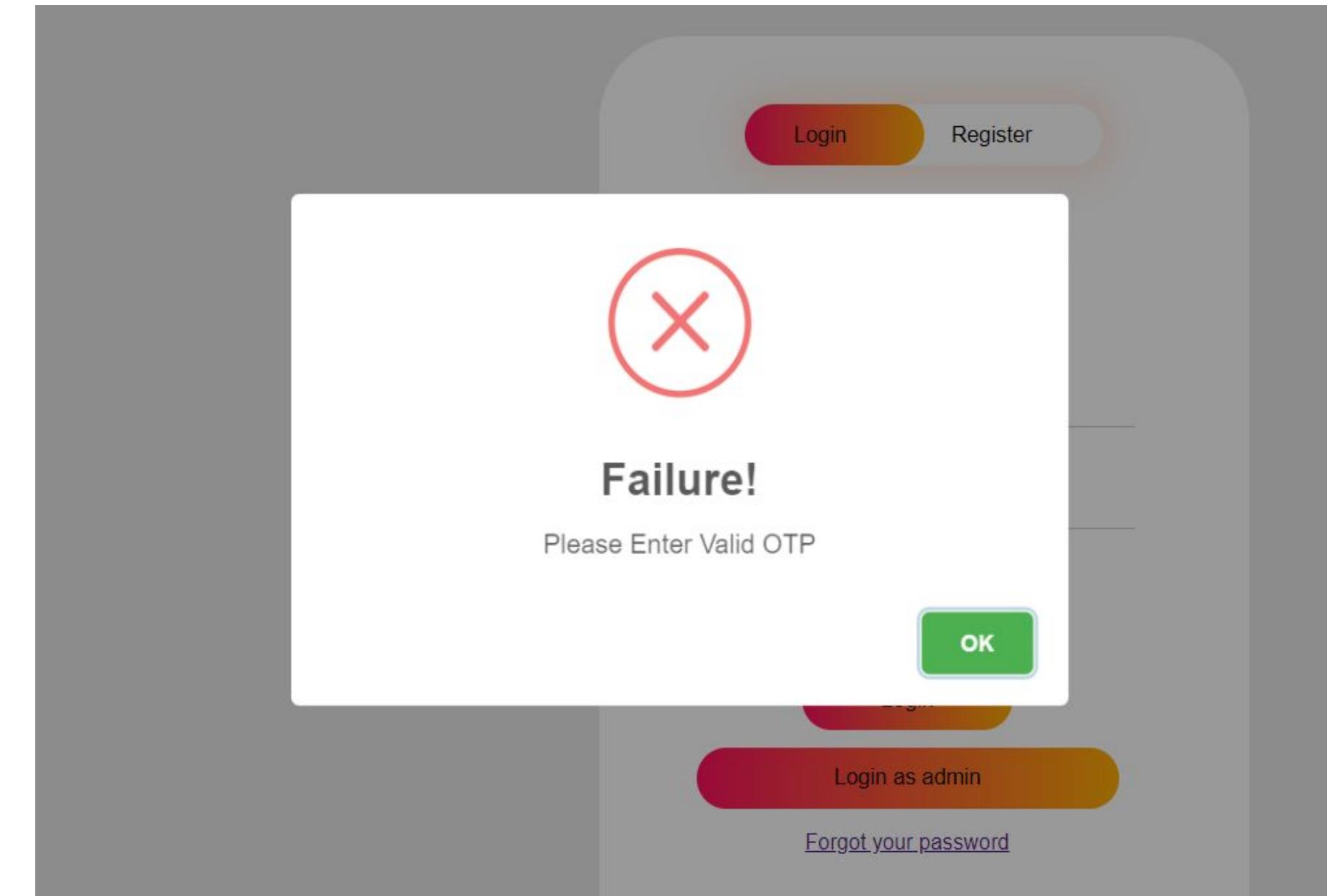
# User Registration



Entering correct OTP:



Entering incorrect OTP:



# Login

The image shows a screenshot of the FlyHighHub.com website. On the left, there is a sidebar with a dark blue background containing the following items:

- FlyHighHub.com logo (airplane icon)
- Dashboard (home icon)
- About Us (people icon)
- Our Service (key and gear icon)
- Contact Us (envelope icon)
- Sign Out (exit icon)

The main content area has a light gray background and features the "Flight Management System" logo with a small airplane icon. In the top right corner of the main area, there is a user profile icon.

Below the logo, there is a central login form with rounded corners. It includes fields for email and password, social media login options (Facebook, Twitter, Google), and a "Remember me" checkbox. At the bottom of the form are two buttons: a red gradient "Login" button and a red gradient "Login as admin" button. A link for "Forgot your password" is also present.

Two large blue arrows are overlaid on the image, pointing from the text labels below to the corresponding buttons on the login form:

- A blue arrow points from the text "For User Login" to the red gradient "Login" button.
- A blue arrow points from the text "For Admin Login" to the red gradient "Login as admin" button.

At the bottom of the main content area, there is a black footer bar with the text "Flight Reservation System 2024".

# Reset Password



FlyHighHub.com

- [Dashboard](#)
- [About Us](#)
- [Our Services](#)
- [Contact Us](#)
- [Sign Out](#)

Flight Management System

≡

Password Reset

[f](#) [t](#) [G](#)

New Password

Confirm Your Password

Remember me

Reset

Flight Reservation System 2024

# Admin Login



FlyHighHub.com

Flight Management System

Login   Register

f   t   G

admin

.....

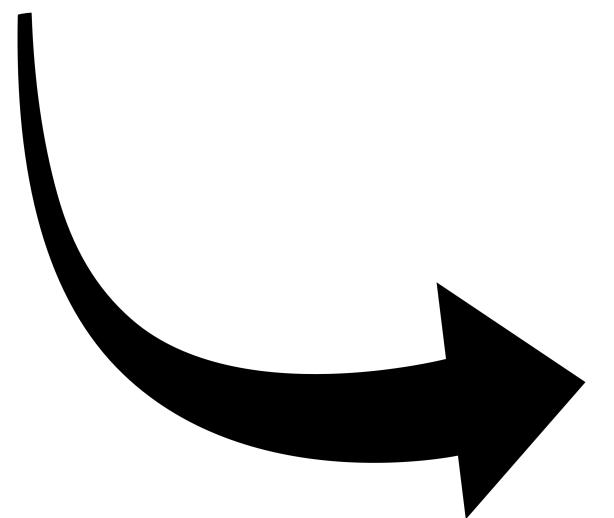
Remember me

Login   Login as admin

[Forgot your password?](#)

Flight Reservation System 2024

localhost:8090/#



Admin has authorization to add, update, delete, view and search flight data

## Admin Dashboard

FlyHighHub.com

Flight Management System

Add   Update   Remove   View   Search

f   t   G

Flight Name

Arrival Details

Departure Details

Seats Available

Cost Price

Add

Flight Reservation System 2024

# Add flights

The image shows a screenshot of the FlyHighHub.com Admin Dashboard. On the left, there's a sidebar with a dark blue background and white icons. The sidebar includes:

- FlyHighHub.com logo with a small airplane icon.
- Dashboard (selected)
- About Us
- Our Service
- Contact Us
- Sign Out

The main area has a light gray background. At the top, it says "≡ Admin Dashboard" with a small airplane icon. Below that is a toolbar with buttons for Add (highlighted in red), Update, Remove, View, and Search. To the right of the toolbar are social media icons for Facebook (f), Twitter (t), and Google+ (G).  
The main content area displays flight information in a list:

- A flight from Indigo to Agra on 12-06-2024 at 12:00.
- A flight from Indigo to Chennai on 13-06-2024 at 1:00.
- A flight from 200 to an unspecified destination.

At the bottom of the list is a large red "Add" button. At the very bottom of the page, a black footer bar contains the text "Flight Reservation System 2024".

# Update flights



FlyHighHub.com

- [Dashboard](#)
- [About Us](#)
- [Our Service](#)
- [Contact Us](#)
- [Sign Out](#)

≡ **Admin Dashboard**

Add    Update    Remove    View    Search

Indigo
Agra 12-06-2024 1:00
100
\$ 1000

Update

Flight Reservation System 2024

# Remove flights



The image shows a screenshot of the Admin Dashboard for FlyHighHub.com. The dashboard has a dark blue header with the logo 'FlyHighHub.com' and a green progress bar. On the left, there's a sidebar with icons and links: Dashboard (selected), About Us, Our Service, Contact Us, and Sign Out. The main area is titled 'Admin Dashboard' with a subtitle 'Manage Flights'. It features a search bar with the placeholder 'Search flight number or airline'. Below it is a table with columns 'Flight Number', 'Airline', 'Status', and 'Actions'. One row is highlighted for 'Indigo'. At the bottom of the table is a large red 'Delete' button. The footer says 'Flight Reservation System 2024'.

FlyHighHub.com

≡ **Admin Dashboard**

Add Update Remove View Search

f t G

Indigo

Delete

Flight Reservation System 2024

# View Bookings



FlyHighHub.com

## Admin Dashboard

Add Update Remove View Search

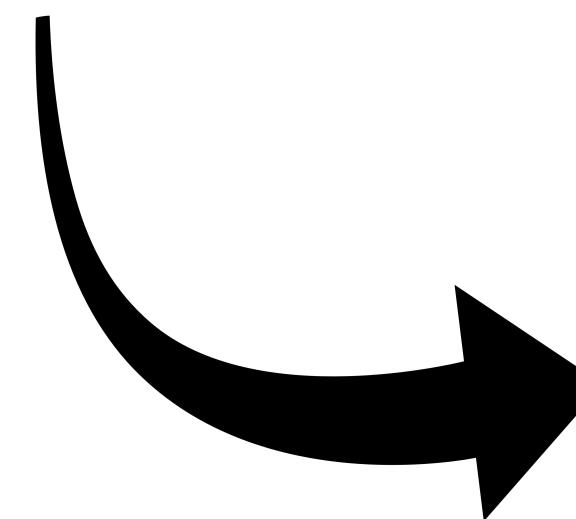
Agra 12-06-2024 12:00  
Chennai 13-06-2024 1:00

f G

View

All user booking details are listed in view

Flight Reservation System 2024



FlyHighHub.com

## Admin Dashboard

### List of All Bookings:

Airlines	Flight Details	Booked By	Passenger Information	Action
TATA Airlines	₹12299 .99 Agra To Chennai Arrival: 12 Jun 2024 , 12:00 Departure: 13 Jun 2024 , 01:00	meghanadgaonkar04@gmail.com	Passenger 1 : Test Case	Delete
Indigo Airlines	₹12799 .99 Agra To Delhi Arrival: 6 Jun 2024 , 10:00 Departure: 6 Jun 2024 , 12:00	meghanadgaonkar04@gmail.com	Passenger 1 : Megha G	Delete

Flight Reservation System 2024

# Search flights



FlyHighHub.com

≡ Admin Dashboard

Add Update Remove View Search

f t G

Agra 12-06-2024 12:00

Chennai 13-06-2024 1:00

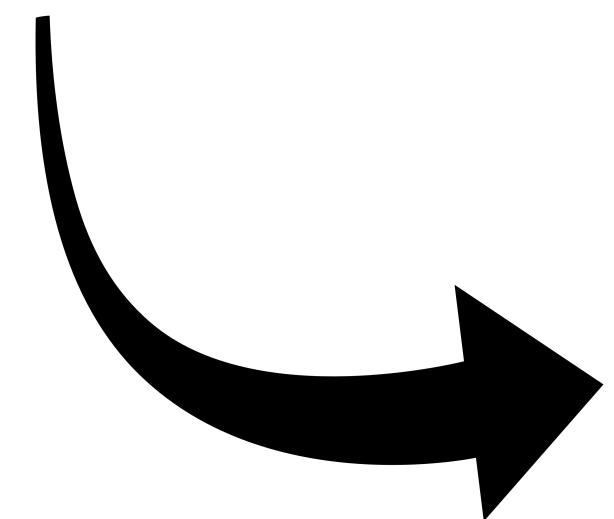
12-06-2024

Search

Flight Reservation System 2024

All flights according to arrival and destination details are listed in search

This screenshot shows the Admin Dashboard of the FlyHighHub.com Flight Reservation System. The interface includes a sidebar with links for Dashboard, About Us, Our Service, Contact Us, and Sign Out. The main content area features a search bar with buttons for Add, Update, Remove, View, and Search. Below the search bar are three social media sharing icons (Facebook, Twitter, Google+). Underneath are two flight entries: "Agra 12-06-2024 12:00" and "Chennai 13-06-2024 1:00". At the bottom is a date input field set to "12-06-2024" and a large red "Search" button. The footer of the page reads "Flight Reservation System 2024". To the right of the dashboard, a text box states "All flights according to arrival and destination details are listed in search".



FlyHighHub.com

≡ Admin Dashboard

List of Available Flights:

Indigo ₹1000.99

More Information:

Arrival: Agra 2024-06-12 12:00 ✓

Departure: Chennai 2024-06-13 01:00 ✓

Seats Left: 200 ✗

Discount Apply ✗

TATA Airlines ₹2000.99

More Information:

Arrival: Agra 2024-06-12 12:00 ✓

Departure: Chennai 2024-06-13 01:00 ✓

Seats Left: 100 ✗

Discount Apply ✗

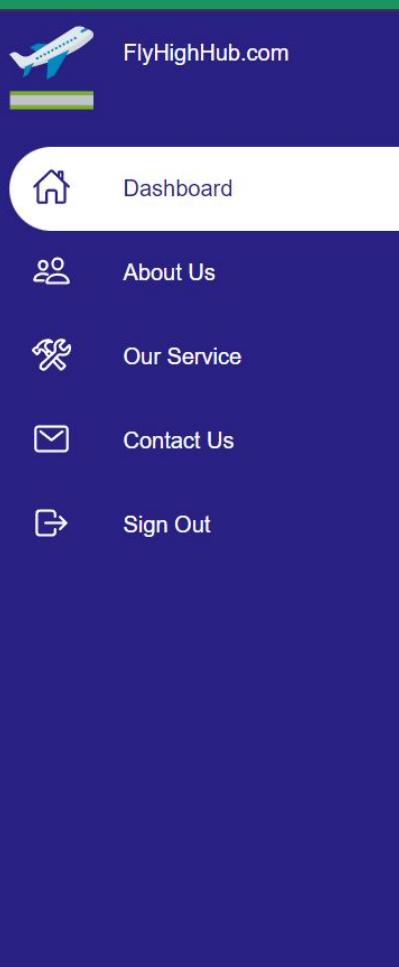
Cancel

Cancel

Flight Reservation System 2024

This screenshot shows the Admin Dashboard displaying a list of available flights. The interface includes a sidebar with links for Dashboard, About Us, Our Services, Contact Us, and Sign Out. The main content area is titled "List of Available Flights" and lists two flight options: "Indigo ₹1000.99" and "TATA Airlines ₹2000.99". Each listing includes "More Information" and "Cancel" buttons. Below each listing, there are four rows of flight details: Arrival, Departure, Seats Left, and Discount Apply. The "Seats Left" and "Discount Apply" rows for both flights have a red "✗" symbol next to them. The footer of the page reads "Flight Reservation System 2024".

# User Login



Flight Management System

Login

Register

f t G

user1

password

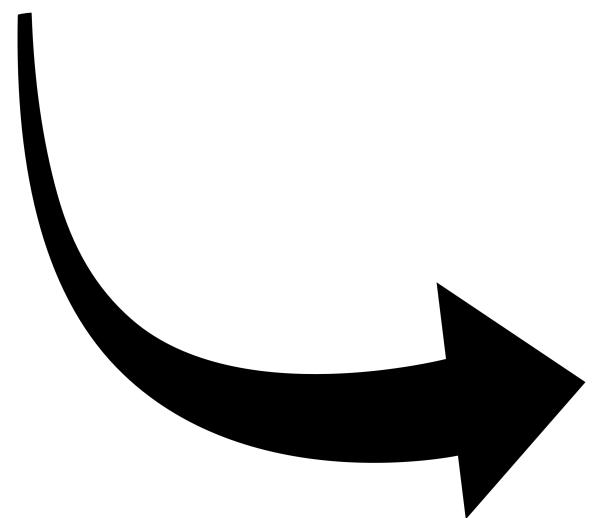
Remember me

Login

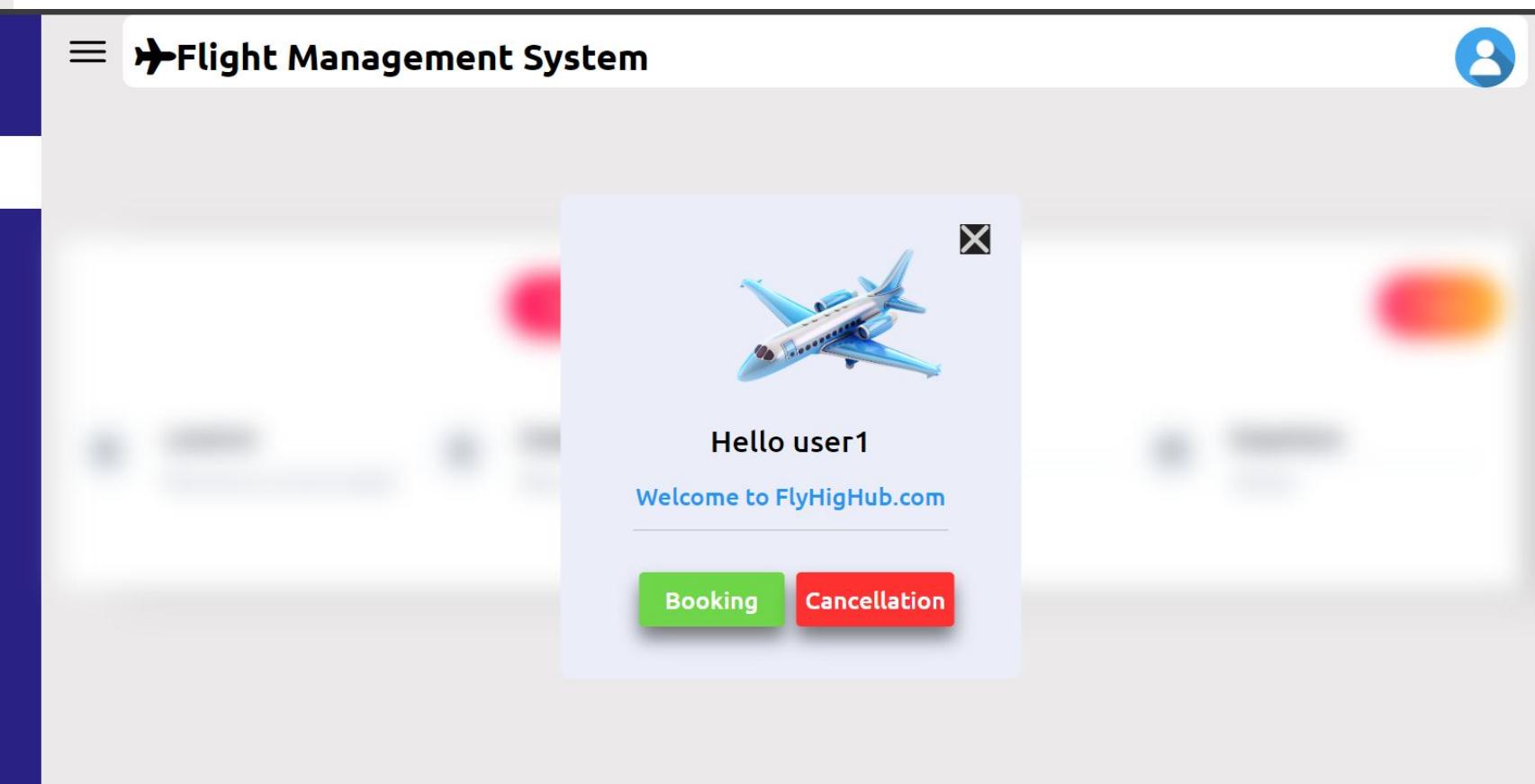
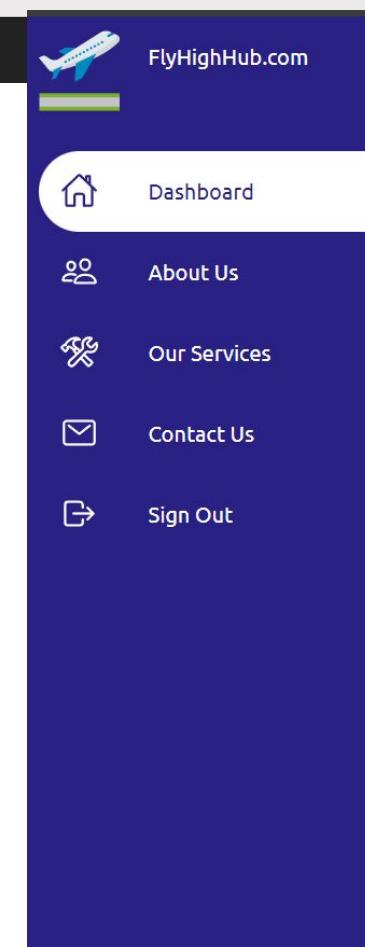
Login as admin

Forgot your password

Flight Reservation System 2024



User can book flight or  
request cancelation of  
bookings



# Flight Booking



FlyHighHub.com

Flight Management System

Dashboard

About Us

Our Services

Contact Us

Sign Out

Agra (AGR)

Where are you currently located?

ch

Where are you going?

Chandigarh (IXC)

Chennai (MAA)

Book Domestic And International Flights

2

12-06-2024

Add guests

Add date

Q Search

Flight Reservation System 2024

FlyHighHub.com

Dashboard

About Us

Our Services

Contact Us

Sign Out

List of Available Flights:

**Indigo** ₹ 1000 .99

More Information:

Arrival:	Agra 2024-06-12 12:00	✓
Departure:	Chennai 2024-06-13 01:00	✓
Seats Left:	200	✗
Discount Apply		✗

**TATA Airlines** ₹ 2000 .99

More Information:

Arrival:	Agra 2024-06-12 12:00	✓
Departure:	Chennai 2024-06-13 01:00	✓
Seats Left:	100	✗
Discount Apply		✗

**Book Now**

Flight Reservation System 2024

FlyHighHub.com

Dashboard

About Us

Our Services

Contact Us

Sign Out

Flight H101

₹ 200 .99

More Information:

Arrival:	Hyderabad 2024-12-10 15:00	✓
Departure:	Gwalior 2024-12-10 12:00	✓
Seats Left:	160	✗
Discount Apply		✗

Travellers Details:

Tester 1	Please Enter Your First Name	no	Please Enter Your Last Name	23	Please Enter Your Age	Indian	Add your country name
----------	------------------------------	----	-----------------------------	----	-----------------------	--------	-----------------------

+Add Adult

Proceed To Payment

Flight Reservation System 2024

# Flight Booking



FlyHighHub.com

## Flight Management System

Front

A flight seat selection interface showing a 5x5 grid of seats. Seats are color-coded: green for Available, blue with a checkmark for Selected, and red with an X for Occupied. A legend on the left shows these icons. A message at the bottom says "You have selected 1 seats for a price of \$9081".

Price Summary

Base Fair	\$200
Seat: B3	\$9,081

\$9281 Continue

Flight Reservation System 2024

FlyHighHub.com

## Flight Management System

Food Menu Card:

A food menu card displaying eight items with images and prices. Each item has an "Add To Card" button.

Item	Price
Gumbo	\$320
Chilli Potato	\$350
Green Salad	\$290
Mushroom Soup	\$523
Key lime pie	\$720
Pizza	\$499
Papdi Chaat	\$190
Dahi bada	\$170

Price Summary

Base Fare	\$200
Seat Fare	\$9081
Chilli Potato	\$350
Green Salad	\$290

\$9,921 Checkout

Flight Reservation System 2024

FlyHighHub.com

## Flight Management System

Payment

A payment screen showing a total of \$9,921. It offers three payment methods: Pay With PayPal, Pay With NetBanking, and Pay using credit or debit card. The card payment section includes fields for Card Number, Expiry Date, CVC, and Card Holder Name, with a "Pay Now" button.

Flight Reservation System 2024

FlyHighHub.com

## Flight Management System

Payment Summary

Thankyou suyash Your Payment Reciept Is Ready.

A payment summary receipt showing the Professional Plan (\$49 per month) and the breakdown of charges.

Category	Amount
Base Fair	\$200
Seat Fair	\$9081
Food Charges	\$640
Total	\$ 9,921

Proceed To Boarding Pass

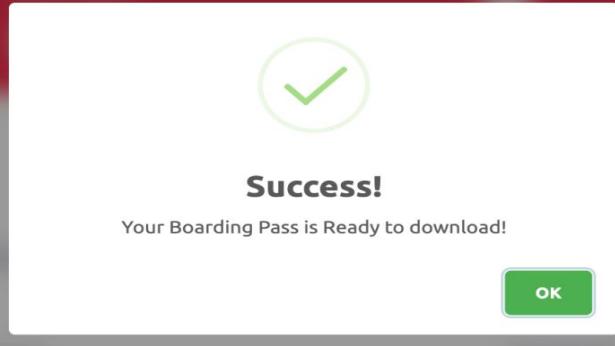
Flight Reservation System 2024

# Boarding Pass



FlyHighHub.com

## Flight Management System



Success!  
Your Boarding Pass is Ready to download!

OK

Dashboard

About Us

Our Services

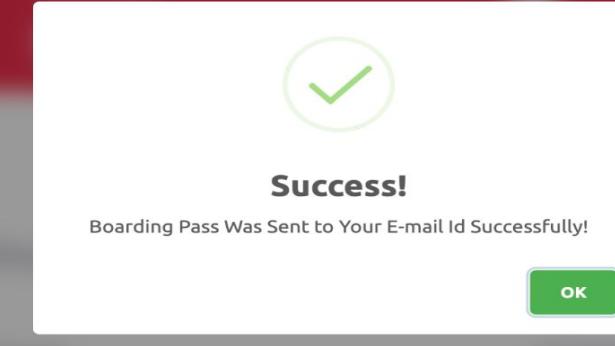
Contact Us

Sign Out

Flight Reservation System 2024

FlyHighHub.com

## Flight Management System



Success!  
Boarding Pass Was Sent to Your E-mail Id Successfully!

OK

Dashboard

About Us

Our Services

Contact Us

Sign Out

Flight Reservation System 2024

You can  
download your  
boarding pass  
in pdf format

FlyHighHub.com



10 Dec 2024 15:00  
**IND**  
Hyderabad

10 Dec 2024 12:00  
**IND**  
Gwalior

0d -3h

H101  
Flight

Boarding  
15:20

Departure  
10 Dec 2024  
12:00

Class  
Business

Gate  
G1

Arrival  
10 Dec 2024  
15:00

Tester 1 no  
23years, Indian

B3

CODEFROG



Flight Reservation System 2024

It will also  
be sent  
to your  
mail

# Cancel Booking



FlyHighHub.com

≡ **Flight Management System**

List of Your Bookings:

**Flight**  
₹9281 .99

Hyderabad To Gwalior ➔

Arrival: 10 Dec 2024 , 15:00 ✓

Departure: 10 Dec 2024 , 12:00 ✓

Passengers Information:

Passenger 1 : Tester 1 no ✘

**Cancel**

Flight Reservation System 2024

# Dashboard



FlyHighHub.com

- Dashboard
- About Us
- Our Services
- Contact Us
- Sign Out

## Flight Management System

### About Us

FlyHighHub.com is one of the leading travel organisations in India, aiming to offer exclusive travel services to diverse explorers.



**Established in 2008: Pioneering India's Online Travel Landscape**

Established in 2008, FlyHighHub.com is India's second-largest\* online travel platform. Operating initially from a small space, we overcame challenges through determination and familial support, evolving into a resilient entity ensuring financial stability. Transitioning to a customer-facing model in 2011, we adopted a 'no convenience fee' policy, attracting a loyal customer base with transparent pricing and exceptional service.

[Read More](#)

Flight Reservation System 2024

FlyHighHub.com

- Dashboard
- About Us
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- Contact Us
- Sign Out

## Flight Management System

### Our Services:

 **Flight Booking**

Book flights to numerous domestic and international destinations with ease. Access to a wide range of dates to fit your schedule and budget.

 **Group Bookings**

Specialized services for corporate clients, including bulk bookings and corporate discounts. Avail of special discounts and services for group travel.

 **Secure Payment Options**

Pay securely using credit cards, debit cards, and other payment methods. Your payment information is protected with advanced security measures.

 **Booking Management**

Modify or cancel your bookings effortlessly through our user-friendly platform. Receive your e-

 **Travel Insurance**

Protect your trip with travel insurance covering cancellations, medical emergencies, and more.

 **Customer Support**

Our dedicated support team is available around the clock to assist you with any queries or issues. Get

Flight Reservation System 2024

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## Flight Management System



Hello Suyash

Username: suyash

Email: suyashkhareji@gmail.com

Date of birth: 24/04/2024

[Update](#)

[f](#) [t](#) [i](#) [y](#)

Flight Reservation System 2024

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- Dashboard
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- Sign Out

## Flight Management System

**Let's get in touch**

To share your feedback/complaints/suggestions or to reach out to our Customer Experience Team.

 92 Cherry Drive Uniondale, NY 11553  
 lorem@ipsum.com  
 123-456-789

Connect with us :

**Contact us**

Username:

Email:

Phone:

Message:

[Send](#)

Flight Reservation System 2024

# CONCLUSION

The Flight Management System is a Java-based booking solution that consolidates data from multiple airline carriers, providing real-time information to users. The system caters to two types of users: **customers** and **administrators**. Customers can create an account, login, check available flights, book, view bookings, and cancel or modify bookings. Administrators can login, add flight, schedule, and route details, view these details, and cancel or modify them. The system provides a seamless booking experience for customers and simplifies the management of bookings for administrators.



Thank  
You