

**PROF. V. B. SHAH INSTITUTE OF MANAGEMENT,
R. V. PATEL COLLEGE OF COMMERCE (ENG. MED.),
V. L. SHAH COLLEGE OF COMMERCE (GUJ. MED.) &
SUTEX BANK COLLEGE OF COMPUTER APPLICATION &
SCIENCE**

(Accredited 'B' (CGPA 2.55) by NAAC Dec.-2009)
VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT



**MINOR-PROJECT REPORT
BACHELOR OF COMPUTER APPLICATION
(5TH SEMESTER) YEAR 2025-26**

AIRSTRO

GUIDED BY:

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SUBMITTED BY:

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PROJECT OVERVIEW

- **Flight Search Functionality:**

Allows users to search for available flights based on their travel preferences.

- **Flight Booking Capability:**

Enables users to book flights directly through the platform.

- **User Registration and Authentication:**

Provides a system for users to register and log in, ensuring secure access to their booking information.

- **Admin Panel Access:**

Includes an administrative interface for managing flight schedules, user accounts, and bookings.

- **Responsive Web Interface:**

Features a user-friendly and responsive design, ensuring accessibility across various devices.

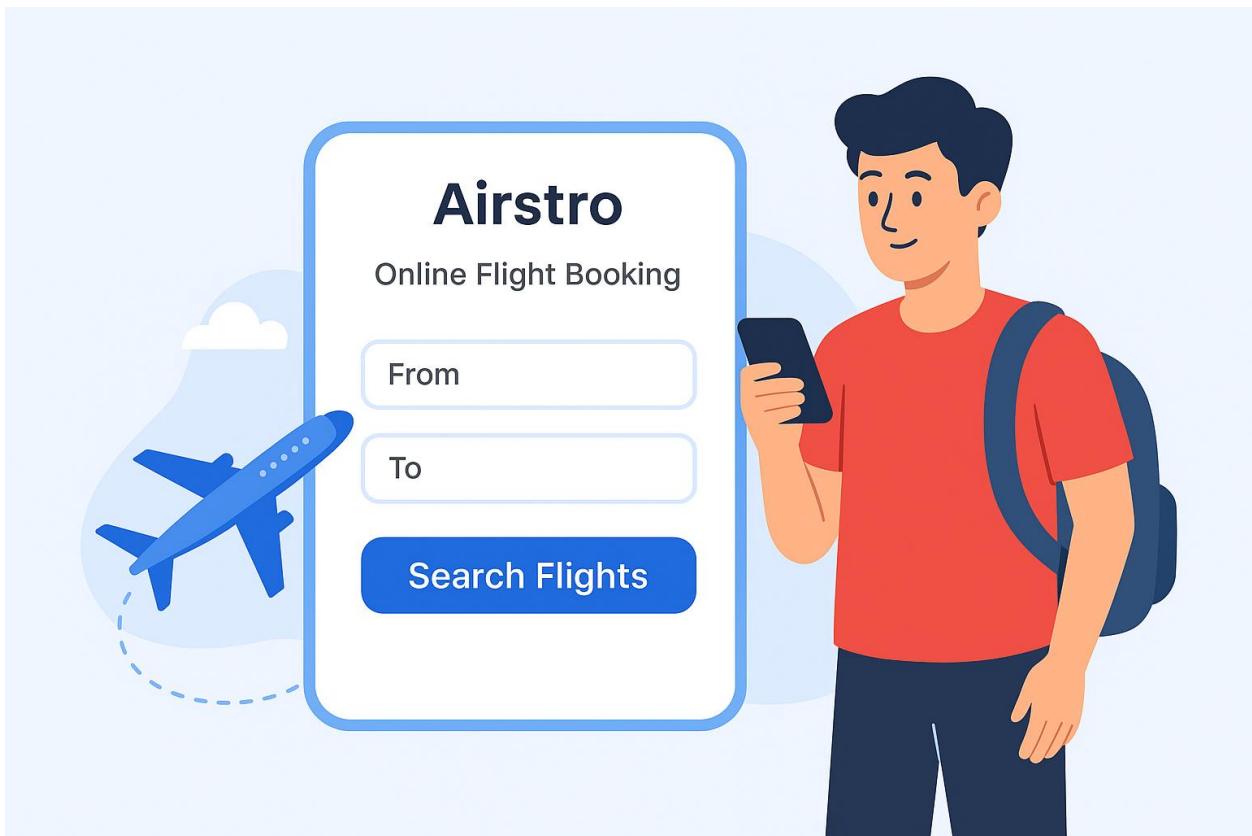
- **Backend Integration:**

Utilizes a server-side component to handle data processing, user management, and flight information retrieval.

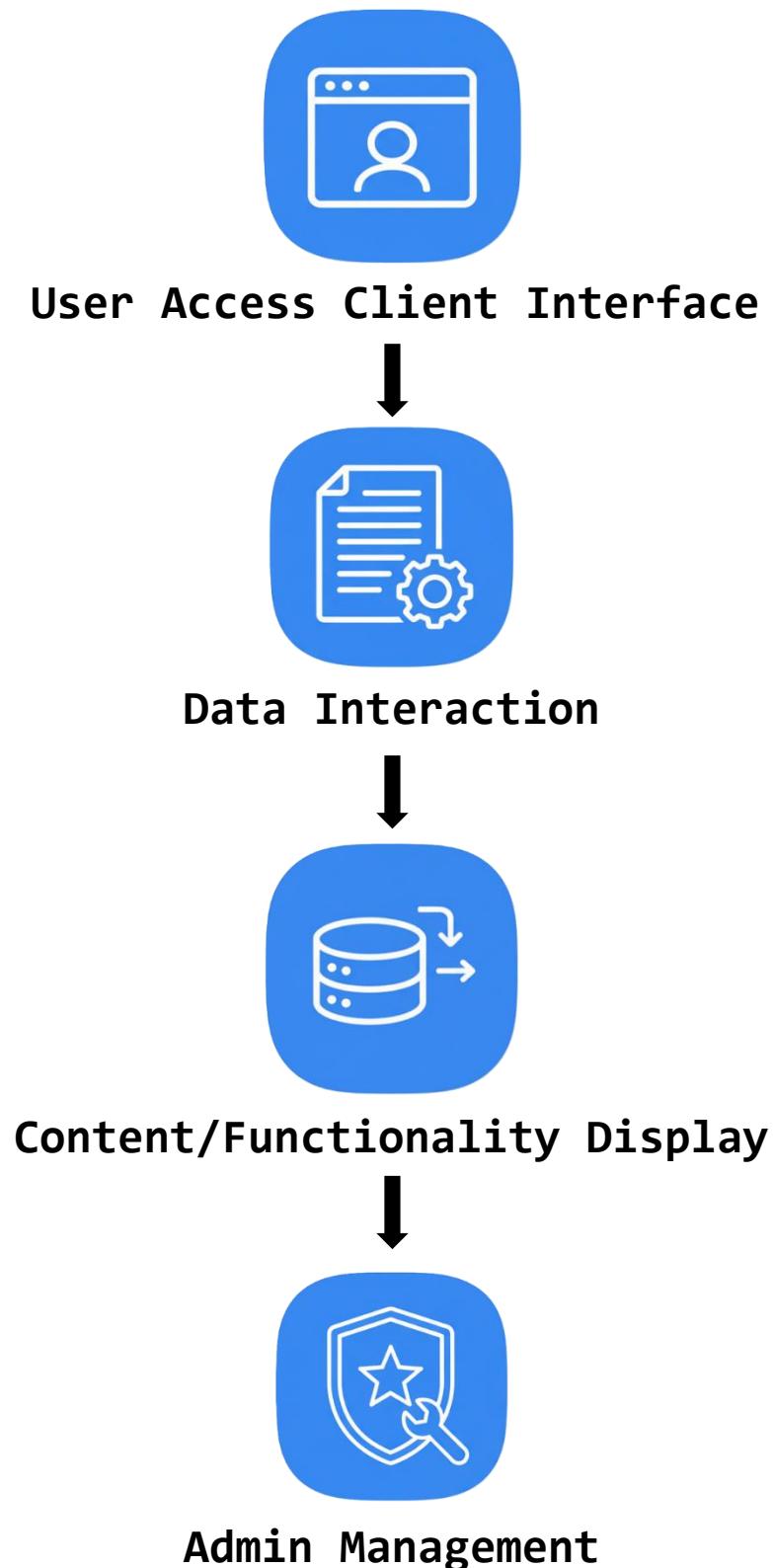
PROJECT PROFILE

TITLE	AIRSTRO
FRONTEND	React.JS, Tailwind CSS
BACKEND	Node.JS, Express.JS
DATABASE	MongoDB
BROWSER	CHROME, FIREFOX, SAFARI
GUIDE BY	Ms. Sanskruti Ramani
SUBMITTED TO	Ms. Sanskruti Ramani

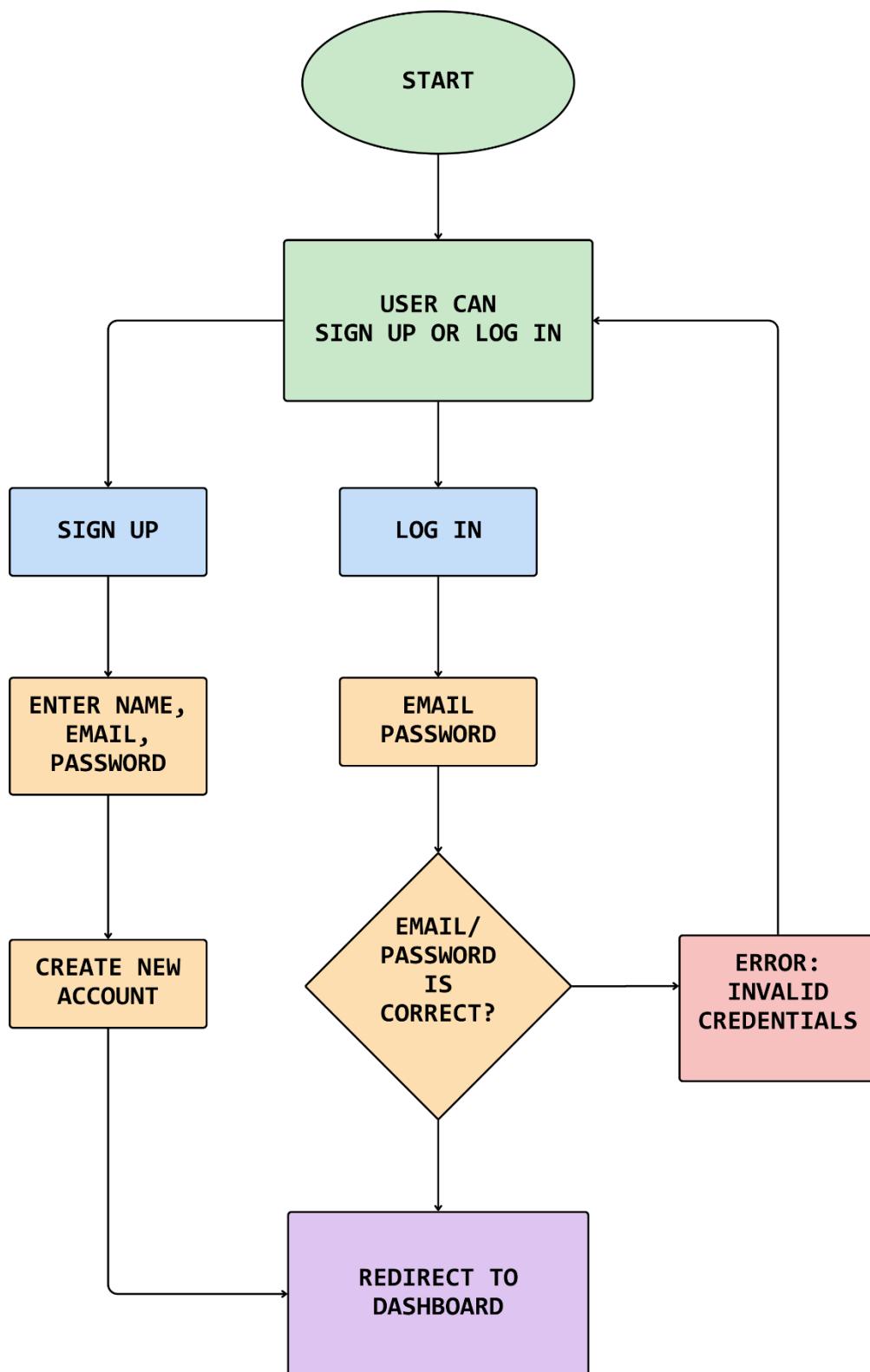
PROJECT TARGET USER



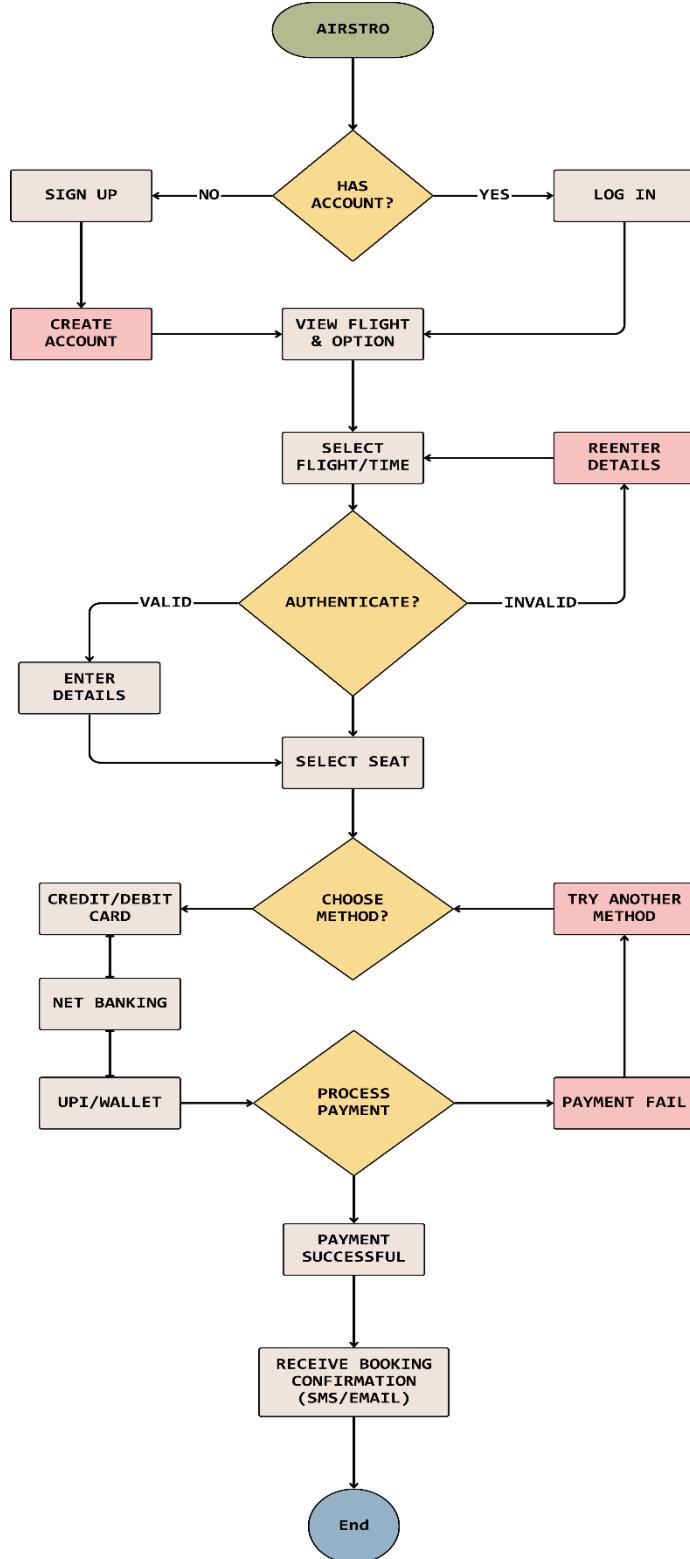
PROJECT OVERVIEW / FEATURES



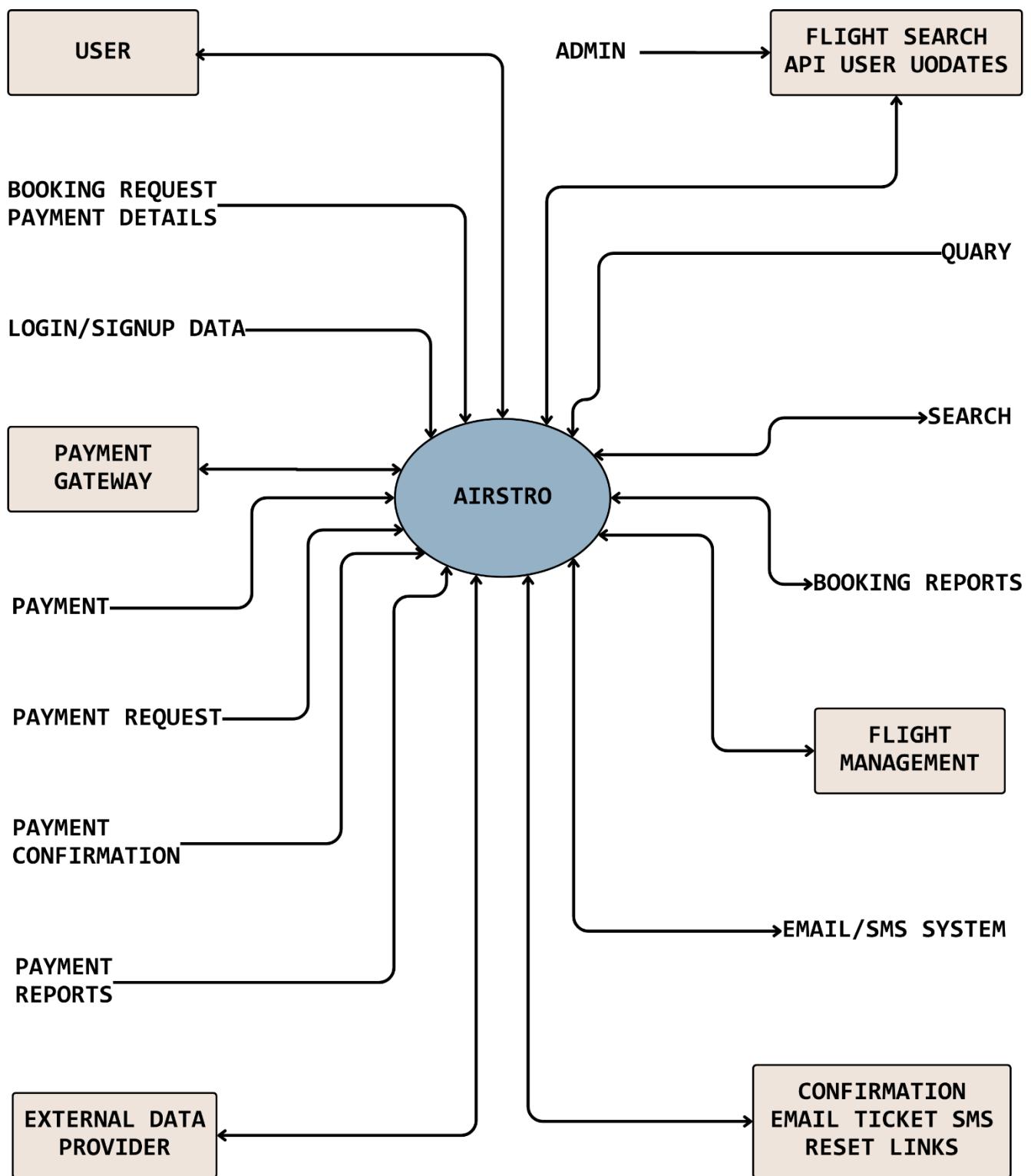
SIGN UP/LOG IN



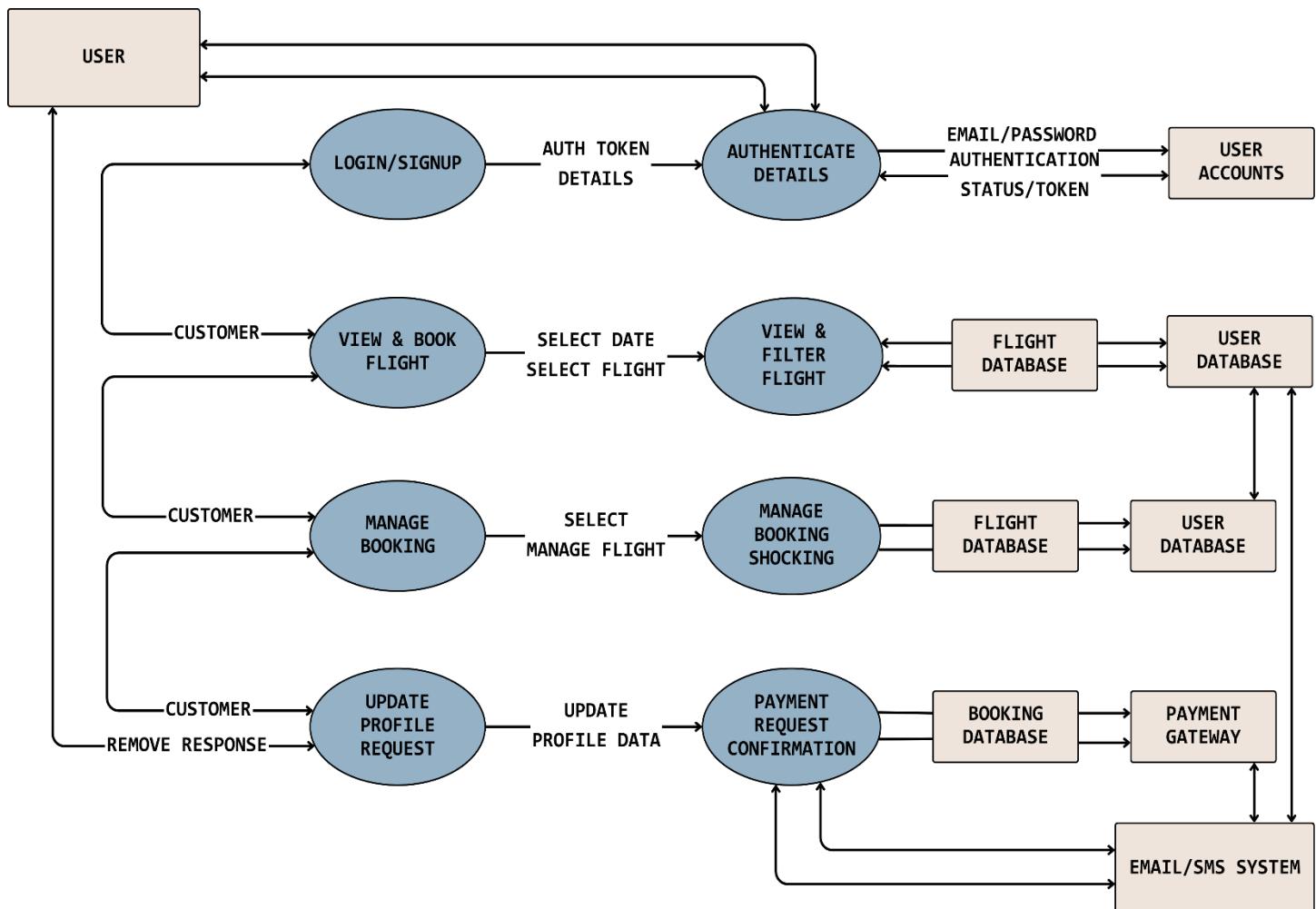
USER PROCESS FLOW DIAGRAM



0 LEVEL DIAGRAM



USER DIAGRAM



Project Instructions:

- **Database & Cache Configuration**

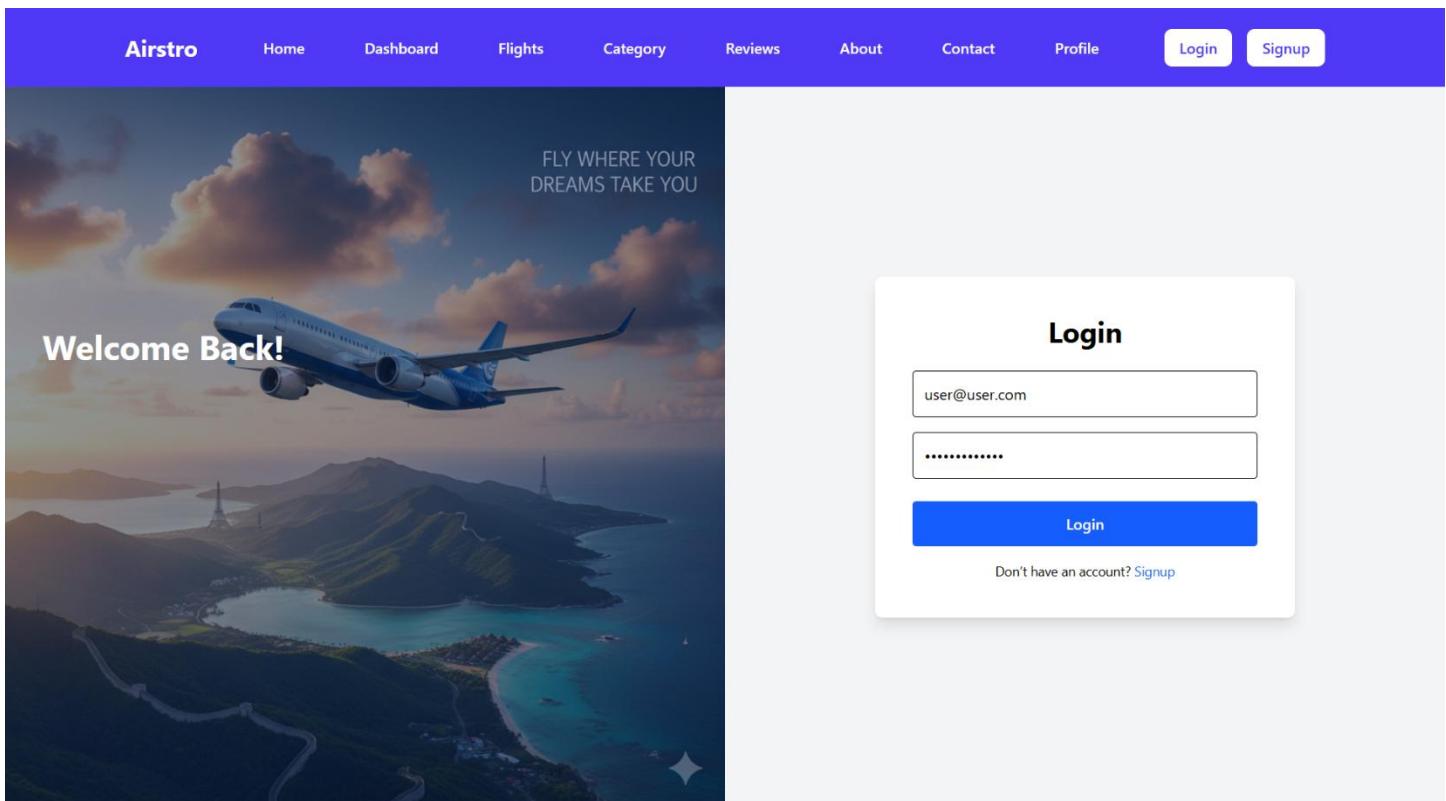
- Update MongoDB and Redis connection details in the project configuration using environment variables.
- `MONGO_URI=mongodb+srv://<username>:<password>@cluster0.mongodb.net/yourDB`
`REDIS_HOST=127.0.0.1`
`REDIS_PORT=6379`

- **Email Service Setup**

- Use an official email service (SendGrid, Gmail SMTP, or Mailtrap for testing) for OTPs and notifications. Configure credentials in environment variables:
- `EMAIL_USER=your-email@example.com`
`EMAIL_PASS=your-email-password`

- **Environment & Running the Project**

- Store sensitive credentials (MongoDB URI, Redis, and SMTP credentials) in a `.env` file in the server folder.
- Make sure `.env` is added to `.gitignore` to avoid committing sensitive data.

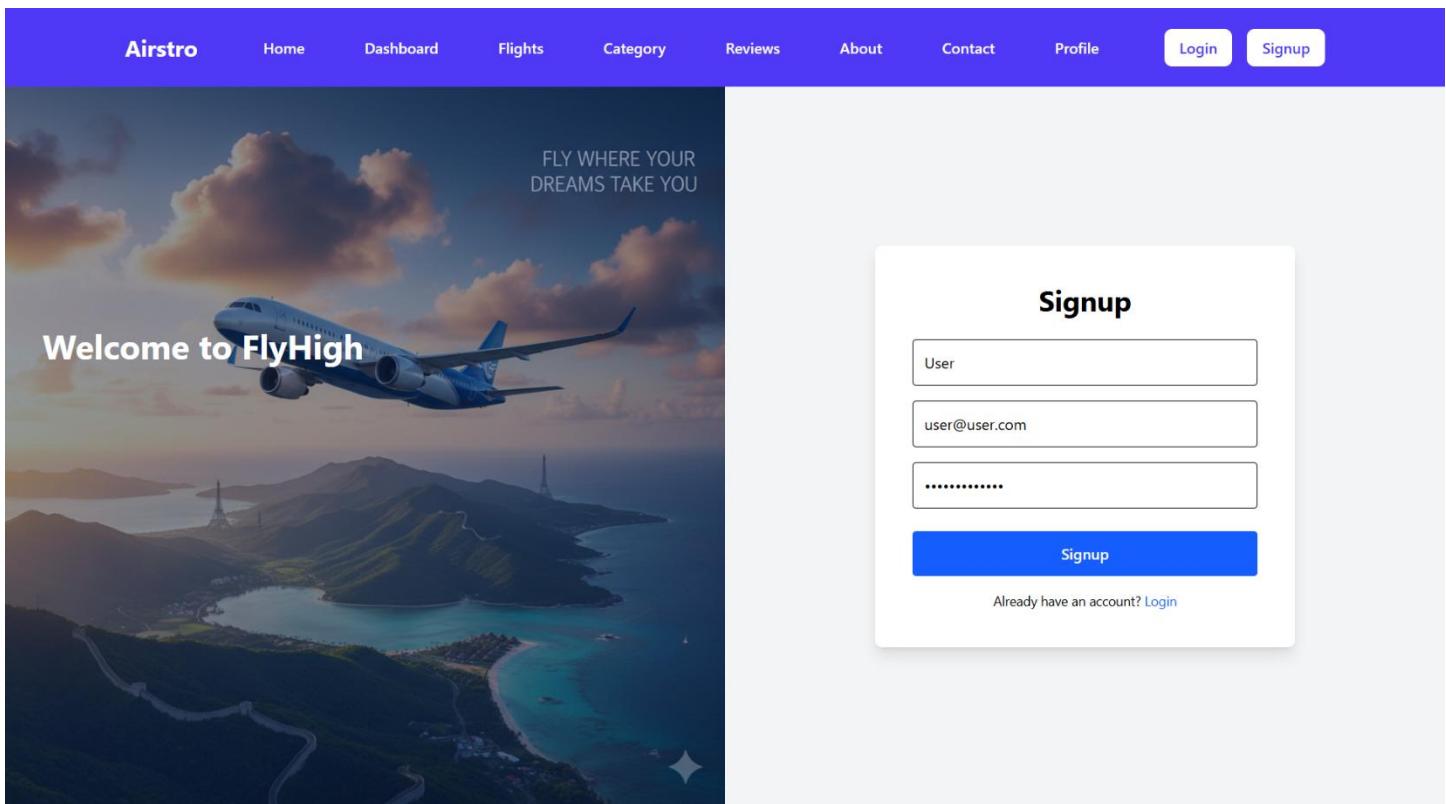


The login page features a large background image of a blue airplane flying over a coastal landscape with mountains and a winding road. Overlaid on the image are the text "Welcome Back!" and "FLY WHERE YOUR DREAMS TAKE YOU". At the top, a purple navigation bar includes the Airstro logo and links for Home, Dashboard, Flights, Category, Reviews, About, Contact, Profile, Login, and Signup.

Login

Login

Don't have an account? [Signup](#)



The signup page features a large background image of a blue airplane flying over a coastal landscape with mountains and a winding road. Overlaid on the image are the text "Welcome to FlyHigh" and "FLY WHERE YOUR DREAMS TAKE YOU". At the top, a purple navigation bar includes the Airstro logo and links for Home, Dashboard, Flights, Category, Reviews, About, Contact, Profile, Login, and Signup.

Signup

Signup

Already have an account? [Login](#)

Fly Anywhere, Anytime with Airstro

Book flights effortlessly with best deals, secure payments, and instant confirmations. Explore destinations around the world with comfort and ease.

From (e.g., Delhi)

To (e.g., Mumbai)

10/05/2025 10/05/2025

1 Passenger

Economy

Latest Flights

Airline	Flight Details	Price	Action
Go First	From: Pune → To: Ahmedabad Departure: 09/10/2025, 11:45:00 Arrival: 09/10/2025, 13:00:00 Duration: 1h 15m Price: \$3200	<input type="button" value="Book Now"/>	
Vistara	From: Hyderabad → To: Delhi Departure: 08/10/2025, 18:00:00 Arrival: 09/10/2025, 20:15:00 Duration: 2h 15m Price: \$5600	<input type="button" value="Book Now"/>	
SpiceJet	From: Chennai → To: Kolkata Departure: 07/10/2025, 07:15:00 Arrival: 07/10/2025, 09:30:00 Duration: 2h 15m Price: \$3900	<input type="button" value="Book Now"/>	

Why Choose Airstro?

- ⚡
Fast Booking
 Instant flight search and booking. Get confirmed in seconds.
- \$
Best Price Guarantee
 Competitive flight prices. We constantly monitor fares so you don't have to.
- 🔒
Secure Payments
 Safe and reliable transactions. Your financial data is always protected.
- 📞
24/7 Support
 Assistance anytime for travelers. Our dedicated team is here to help, day or night.

Flight Reviews

Submit Your Review

Rating: ★★★★★

Write your review...

Loading reviews...

Airstro

Your seamless gateway to global travel. We make booking flights effortless, secure, and affordable. Explore the world with confidence.

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Contact Us

support@airstro.com
[+1 \(555\) 123-4567](tel:+15551234567)
 101 Aviation Plaza, Skyview City, CA 90210

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Aviation Dashboard Overview



Best Flights

IndiGo
Delhi → Mumbai
Departure: 06/10/2025, 08:30:00
Arrival: 06/10/2025, 10:45:00
Price: \$4500
Seats Available: 16

1 Book Now

Air India
Mumbai → Bangalore
Departure: 06/10/2025, 14:00:00
Arrival: 06/10/2025, 16:10:00
Price: \$5200
Seats Available: 12

1 Book Now

SpiceJet
Chennai → Kolkata
Departure: 07/10/2025, 07:15:00
Arrival: 07/10/2025, 09:30:00
Price: \$3900
Seats Available: 28

1 Book Now

Vistara
Hyderabad → Delhi
Departure: 08/10/2025, 18:00:00
Arrival: 08/10/2025, 20:15:00
Price: \$5600
Seats Available: 16

1 Book Now

Go First
Pune → Ahmedabad
Departure: 09/10/2025, 11:45:00
Arrival: 09/10/2025, 13:00:00
Price: \$3200
Seats Available: 9

1 Book Now

My Recent Bookings

IndiGo
Delhi → Mumbai
Seats: 1 | Price: **\$4500**
Date: 06/10/2025

Cancel Booking

Go First
Pune → Ahmedabad
Seats: 1 | Price: **\$3200**
Date: 09/10/2025

Cancel Booking

SpiceJet
Chennai → Kolkata
Seats: 1 | Price: **\$3900**
Date: 07/10/2025

Cancel Booking

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My Flights & Available Flights

My Booked Flights

IndiGo

Delhi → Mumbai
Departure: 06/10/2025, 08:30:00
Arrival: 06/10/2025, 10:45:00
Price: \$4500
Seats Booked: 1

[Cancel Booking](#)

Go First

Pune → Ahmedabad
Departure: 09/10/2025, 11:45:00
Arrival: 09/10/2025, 13:00:00
Price: \$3200
Seats Booked: 1

[Cancel Booking](#)

SpiceJet

Chennai → Kolkata
Departure: 07/10/2025, 07:15:00
Arrival: 07/10/2025, 09:30:00
Price: \$3900
Seats Booked: 1

[Cancel Booking](#)

All Flights

IndiGo

Delhi → Mumbai
Departure: 06/10/2025, 08:30:00
Arrival: 06/10/2025, 10:45:00
Price: \$4500
Seats Available: 16

[Book Now](#)

Air India

Mumbai → Bangalore
Departure: 06/10/2025, 14:00:00
Arrival: 06/10/2025, 16:10:00
Price: \$5200
Seats Available: 12

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Seats Available: 28

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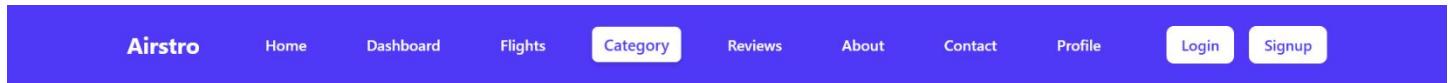
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Search Flights

Filter Flights

IndiGo

Delhi → Mumbai

Departure: 06/10/2025, 08:30:00

Arrival: 06/10/2025, 10:45:00

Price: \$4500

Seats Available: 16

[Book Now](#)

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Our Journey: Connecting Worlds

We believe in seamless travel, every time, everywhere.

Our Core Mission



Global Access

To offer the widest network of flight options, ensuring travelers can reach any corner of the globe affordably and easily.



Price Excellence

Providing best-in-class deals and transparent pricing, guaranteeing that every booking offers maximum value without hidden fees.



Customer Trust

Building trust through 24/7 dedicated support, instant confirmations, and reliable, secure payment infrastructure.

Our Achievements



Top Travel Awards

Recognized as the best travel service platform 3 years in a row.



Over 1M Happy Customers

Trusted by travelers worldwide for seamless booking experiences.



Global Flight Network

Flights connecting 500+ destinations across 100+ countries.

Meet Our Team



Monu Sharma
CEO



Ravi Kumar
CTO



Anjali Verma
Marketing Head



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City, CA 90210

Project Data Object

User :

user_id	name	email	password	role
1	Rahul Gadhiya	rahul@gmail.com ↗	rahul123	passenger
2	Priya Sharma	priya@gmail.com ↗	priya123	passenger
3	Amit Patel	amit@gmail.com ↗	amit123	passenger
4	Sneha Joshi	sneha@gmail.com ↗	sneha123	passenger
5	Rakesh Kumar	rakesh@gmail.com ↗	rakesh123	passenger

Admin :

user_id	name	email	password	role
1	Rahul Gadhiya	rahul@gmail.com ↗	rahul123	passenger
2	Priya Sharma	priya@gmail.com ↗	priya123	passenger
3	Amit Patel	amit@gmail.com ↗	amit123	passenger
4	Sneha Joshi	sneha@gmail.com ↗	sneha123	passenger
5	Rakesh Kumar	rakesh@gmail.com ↗	rakesh123	passenger

Flights :

flight_id	flight_name	source	destination	departure_time	arrival_time	seats_available	price
1	Air India 101	Mumbai	Delhi	2025-10-05 06:00	2025-10-05 08:00	150	5000
2	Indigo 202	Delhi	Bangalore	2025-10-06 09:00	2025-10-06 12:00	120	4500
3	SpiceJet 303	Mumbai	Chennai	2025-10-05 14:00	2025-10-05 16:30	100	4800
4	GoAir 404	Bangalore	Delhi	2025-10-07 07:00	2025-10-07 10:00	130	5200
5	Vistara 505	Delhi	Mumbai	2025-10-08 18:00	2025-10-08 20:00	160	5500

Booking :

booking_id	user_id	flight_id	seats_booked	booking_date
1	1	2	2	2025-10-01
2	2	1	1	2025-10-01
3	3	3	3	2025-10-01
4	4	5	2	2025-10-01
5	5	4	1	2025-10-01

Payment:

payment_id	booking_id	amount	payment_mode	status
1	1	9000	Credit Card	Completed
2	2	5000	UPI	Completed
3	3	14400	Net Banking	Pending
4	4	11000	Credit Card	Completed
5	5	5200	UPI	Completed

Project Summary/References :

Summary :

- Airstro is a full-stack car rental web application built with Node.js, Express.js, MongoDB, and JavaScript.
- Users can register, log in, browse cars, and book vehicles for specific time slots.
- Admins can manage cars, update details, and track bookings in real-time.
- The system uses CRUD operations, authentication, and RESTful APIs for seamless functionality.
- It demonstrates a complete, secure, and user-friendly rental management system.

 **References:**

Here are some useful resources that helped in building this project:

- **Node.js Official Documentation :**

<https://nodejs.org/en/docs/>

- **Express.js Documentation :** <https://expressjs.com/>

- **MongoDB Documentation :** <https://www.mongodb.com/docs>

- **Mongoose ODM Tutorial :** <https://mongoosejs.com/docs/>

- **JavaScript Basics (MDN) :**

[https://developer.mozilla.org/en-](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide)

US/docs/Web/JavaScript/Guide

- **RESTful API Design (GeeksforGeeks) :**

<https://www.geeksforgeeks.org/rest-api-design-best-practices/>

- **CRUD Operations in Node.js & MongoDB (GeeksforGeeks) :**

<https://www.geeksforgeeks.org/crud-operations-using-nodejs-and-mongodb/>