PROJECT REPORT FORMAT

1. Introduction

1.1 Project Overview

FlightFinder is a web application designed to help users search, compare, and book flights across multiple airlines in one seamless platform.

1.2 Purpose

The project aims to simplify air travel planning by providing a user-friendly interface, real-time flight data, and secure booking capabilities.

2. Ideation Phase

2.1 Problem Statement

Current flight booking methods are often fragmented. Users must visit multiple airline websites, manually compare prices, and manage bookings in separate portals.

2.2 Empathy Map Canvas

Think & Feel: Users want peace of mind—easy search, simple booking flow.

See & Hear: Overwhelmed by airline deals and pop-ups.

Say & Do: “I wish this were easier to compare at once.”

Pain: Switching tabs, hidden fees, slow checkout.

Gain: Instant comparisons, upfront cost visibility, one-click booking.

2.3 Brainstorming

Aggregate flight data via API

Filters: date, passenger count, class, price

Authentication for personalized features

Contact form for support

Multi-screen UI for user journey

3. Requirement Analysis

3.1 Customer Journey Map

Users: Signup → Login → Search flights → Compare → Enter details → Confirm booking → Contact support

3.2 Solution Requirement

User authentication

Real-time flight search and filter

Payment integration

Contact form

Responsive design

3.3 Data Flow Diagram

Client ↔ Server: endpoints for login, search, booking, support

DB: Users, Flights, Bookings, Messages

3.4 Technology Stack

Frontend: React.js

Backend: Node.js/Express

Database: MongoDB or PostgreSQL

APIs: Third-party flight data, authentication

Payment Gateway: Stripe/PayPal

4. Project Design

4.1 Problem-Solution Fit

Aggregates flight info from multiple airlines and streamlines booking—solving fragmentation and usability issues.

4.2 Proposed Solution

A React frontend with user authentication, searching/filtering flights, adding passengers, secure payment, and support contact.

4.3 Solution Architecture

Frontend (React) ↔ Backend (Express, API endpoints) ↔ Database

Third-party flight data & payment gateway integrations

5. Project Planning & Scheduling

5.1 Project Planning

1. **Week 1**: Requirements gathering, UI mockups
2. **Week 2–3:** Authentication, flight search & filtering
3. **Week 4:** Passenger form, contact form
4. **Week 5:** Payment integration + booking flow
5. **Week 6:** Testing, bug fixes, deployment

6. Functional and Performance Testing

6.1 Performance Testing

Verified search speed and pagination

Payment flow tested with test cards

Form validation and error handling

7. Results

7.1 Output Screenshots (in order)

1. Homepage (logged in)

Buttons for Round-Trip/One-Way/Multi-City, date pickers, passenger count, class selector.

2. Flight Listings

Shows available flights with prices, airlines, duration, booking buttons.

3. Contact Form Submission

Shows confirmation message and summary after sending a request.

4. Passenger Details Form

Fields for multiple passengers, pre-filled user info and ability to remove passengers.

5. Payment Summary Page

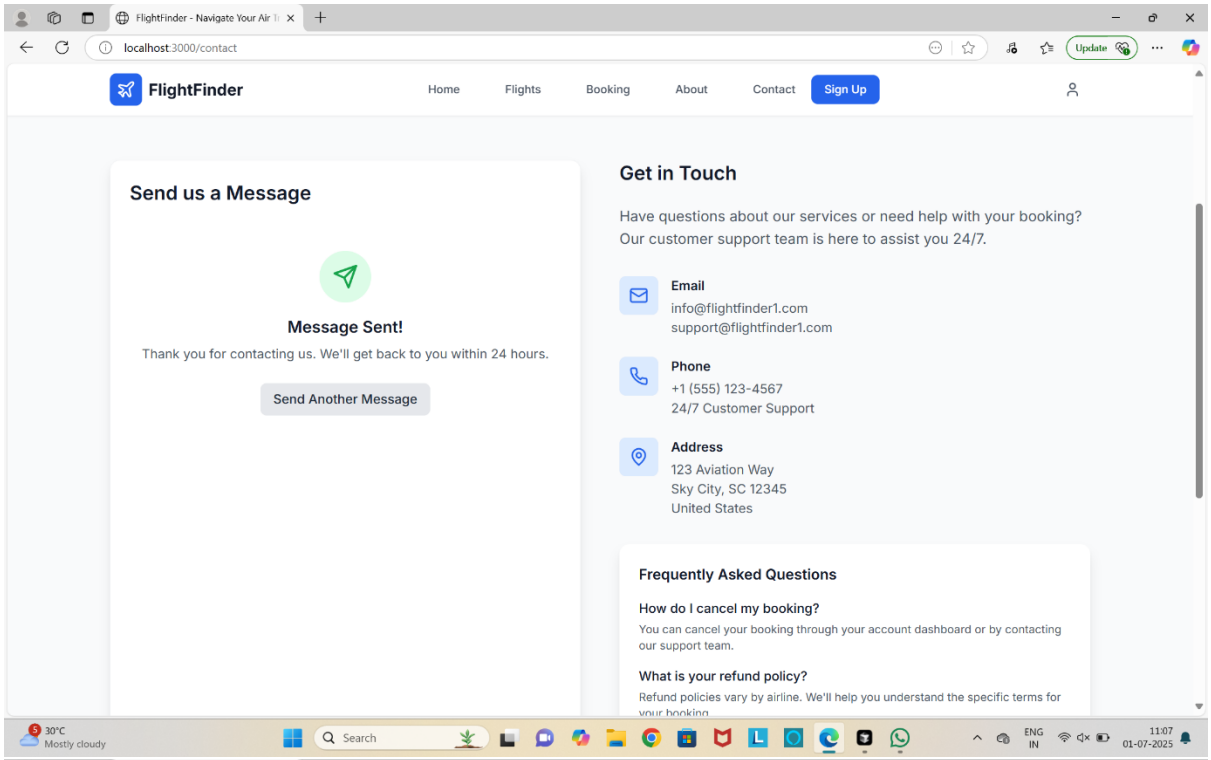
Input for card details and shows total summary including taxes and fees.

6. Contact Form Pre-Submission

Input fields filled with user's details ready to send a query.

7. About Us Page

Overview of FlightFinder's mission and features.


FlightFinder - Navigate Your Air
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Home
Flights
Booking
About
Contact
Sign Up
Send us a Message
Message Sent!
Thank you for contacting us. We'll get back to you within 24 hours.
Send Another Message
Get in Touch
Have questions about our services or need help with your booking? Our customer support team is here to assist you 24/7.
Email
info@flightfinder1.com
support@flightfinder1.com
Phone
+1 (555) 123-4567
24/7 Customer Support
Address
123 Aviation Way
Sky City, SC 12345
United States
Frequently Asked Questions
How do I cancel my booking?
You can cancel your booking through your account dashboard or by contacting our support team.
What is your refund policy?
Refund policies vary by airline. We'll help you understand the specific terms for
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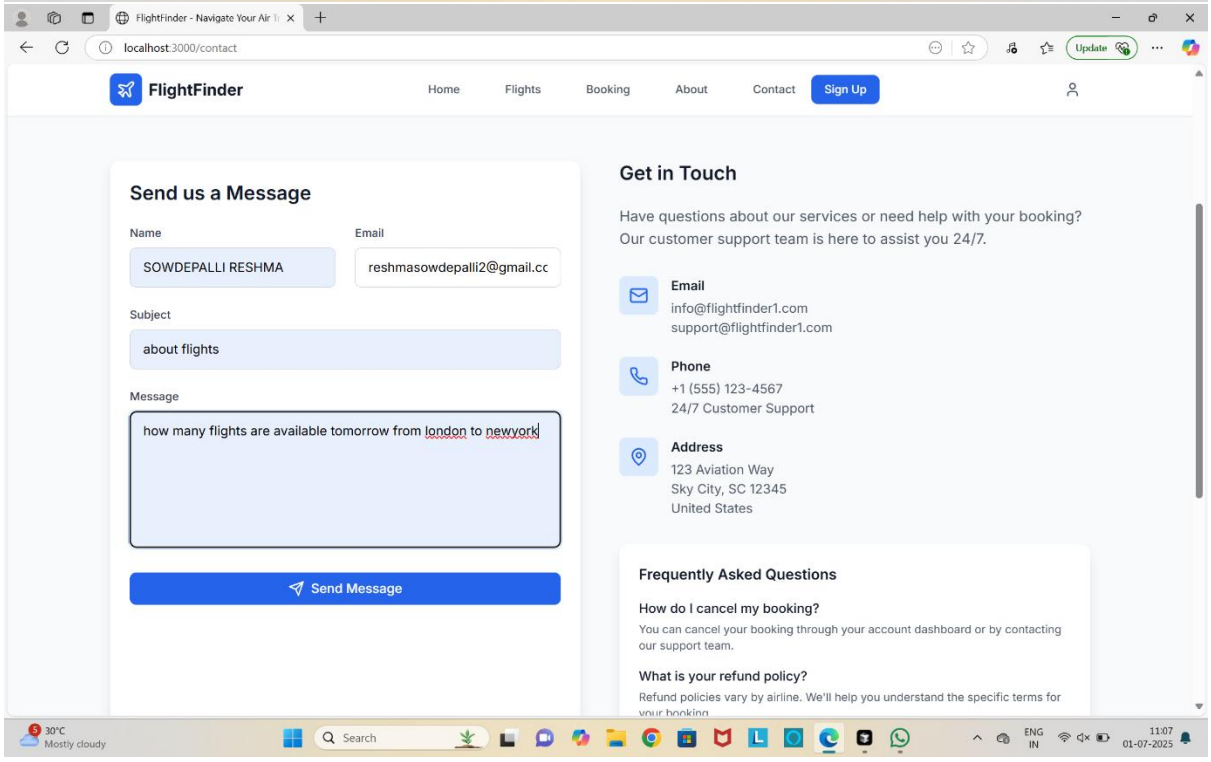
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Update
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About
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Sign Up
Send us a Message
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Email
reshmasowdepalli2@gmail.cc
Subject
about flights
Message
how many flights are available tomorrow from london to newyork
Send Message
Get in Touch
Have questions about our services or need help with your booking? Our customer support team is here to assist you 24/7.
Email
info@flightfinder1.com
support@flightfinder1.com
Phone
+1 (555) 123-4567
24/7 Customer Support
Address
123 Aviation Way
Sky City, SC 12345
United States
Frequently Asked Questions
How do I cancel my booking?
You can cancel your booking through your account dashboard or by contacting our support team.
What is your refund policy?
Refund policies vary by airline. We'll help you understand the specific terms for
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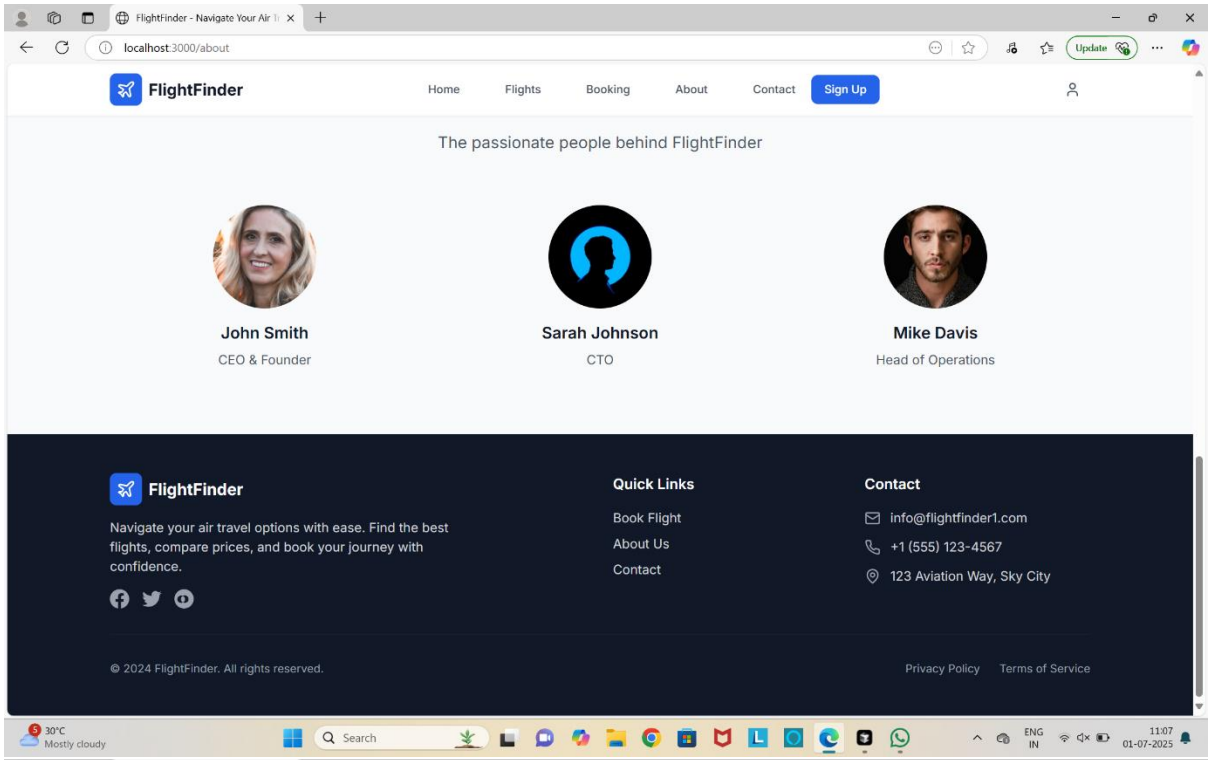
FlightFinder - Navigate Your Air
localhost:3000/about
Update
FlightFinder
Home
Flights
Booking
About
Contact
Sign Up
The passionate people behind FlightFinder
John Smith
CEO & Founder
Sarah Johnson
CTO
Mike Davis
Head of Operations
FlightFinder
Navigate your air travel options with ease. Find the best flights, compare prices, and book your journey with confidence.
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About Us
Contact
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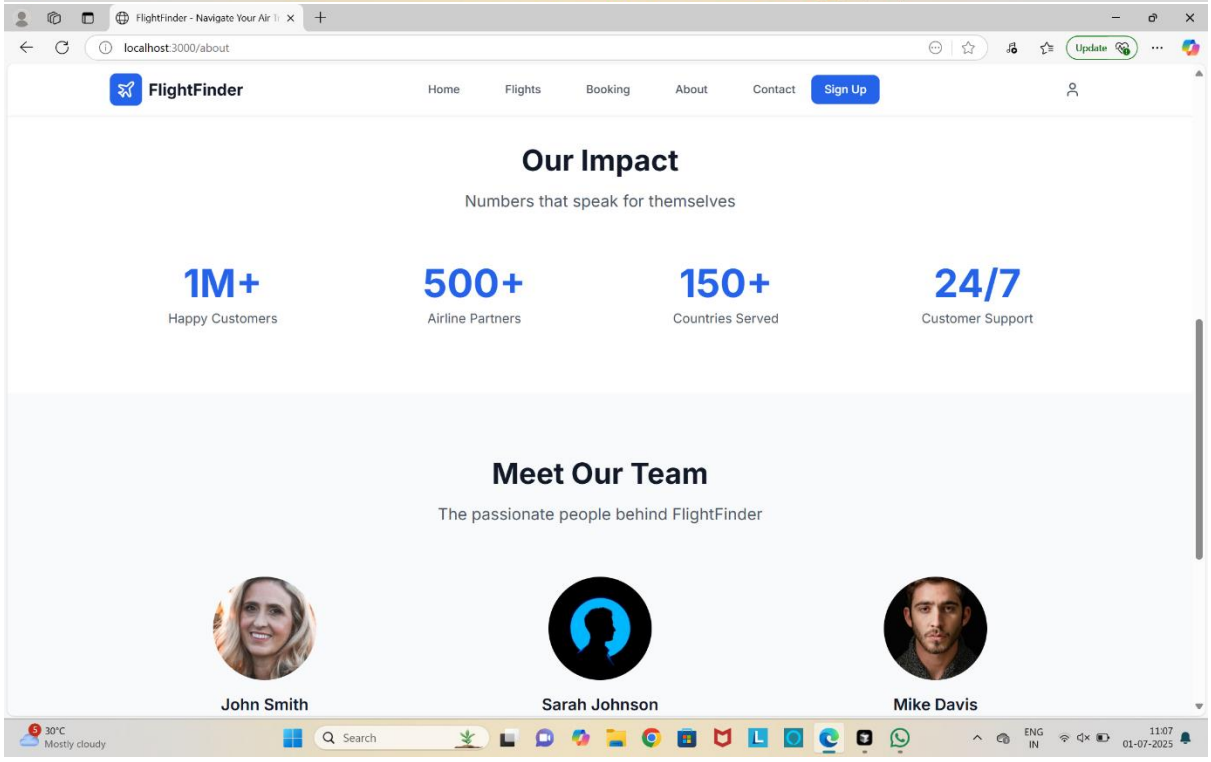
FlightFinder - Navigate Your Air
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Update
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Booking
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Contact
Sign Up
Our Impact
Numbers that speak for themselves
1M+
Happy Customers
500+
Airline Partners
150+
Countries Served
24/7
Customer Support
Meet Our Team
The passionate people behind FlightFinder
John Smith
Sarah Johnson
Mike Davis
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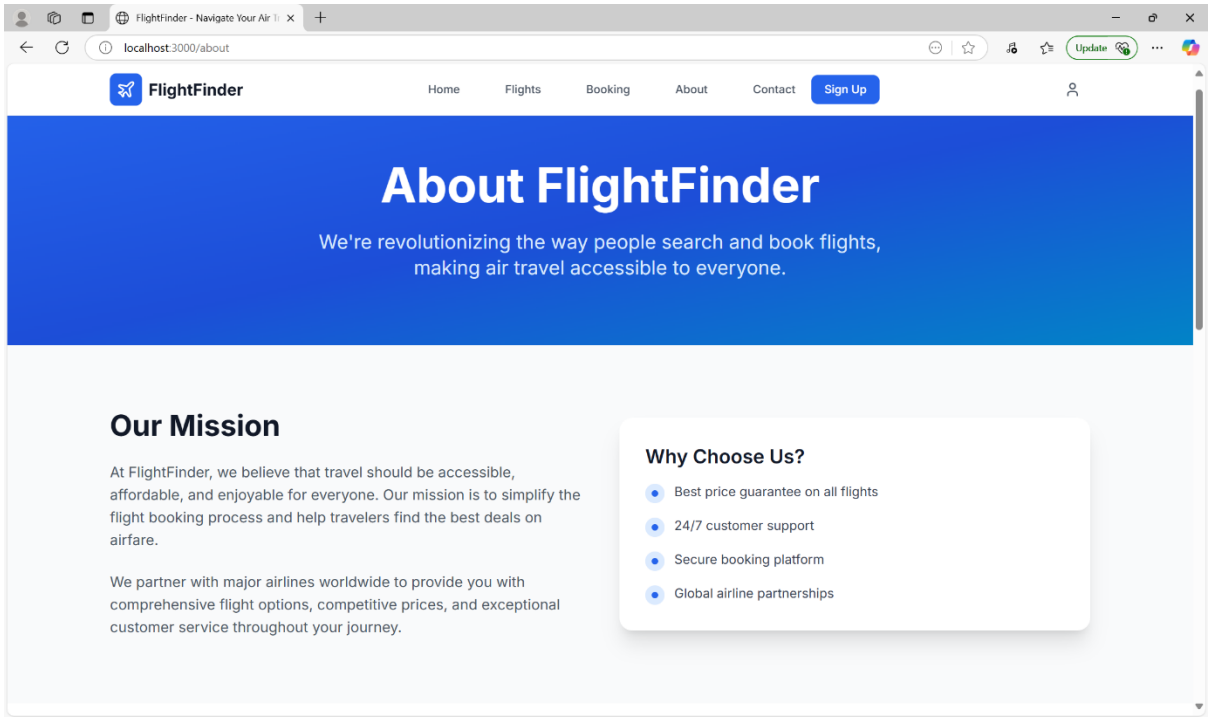
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Update
FlightFinder
Home
Flights
Booking
About
Contact
Sign Up
About FlightFinder
We're revolutionizing the way people search and book flights, making air travel accessible to everyone.
Our Mission
At FlightFinder, we believe that travel should be accessible, affordable, and enjoyable for everyone. Our mission is to simplify the flight booking process and help travelers find the best deals on airfare.
We partner with major airlines worldwide to provide you with comprehensive flight options, competitive prices, and exceptional customer service throughout your journey.
Why Choose Us?
Best price guarantee on all flights
24/7 customer support
Secure booking platform
Global airline partnerships
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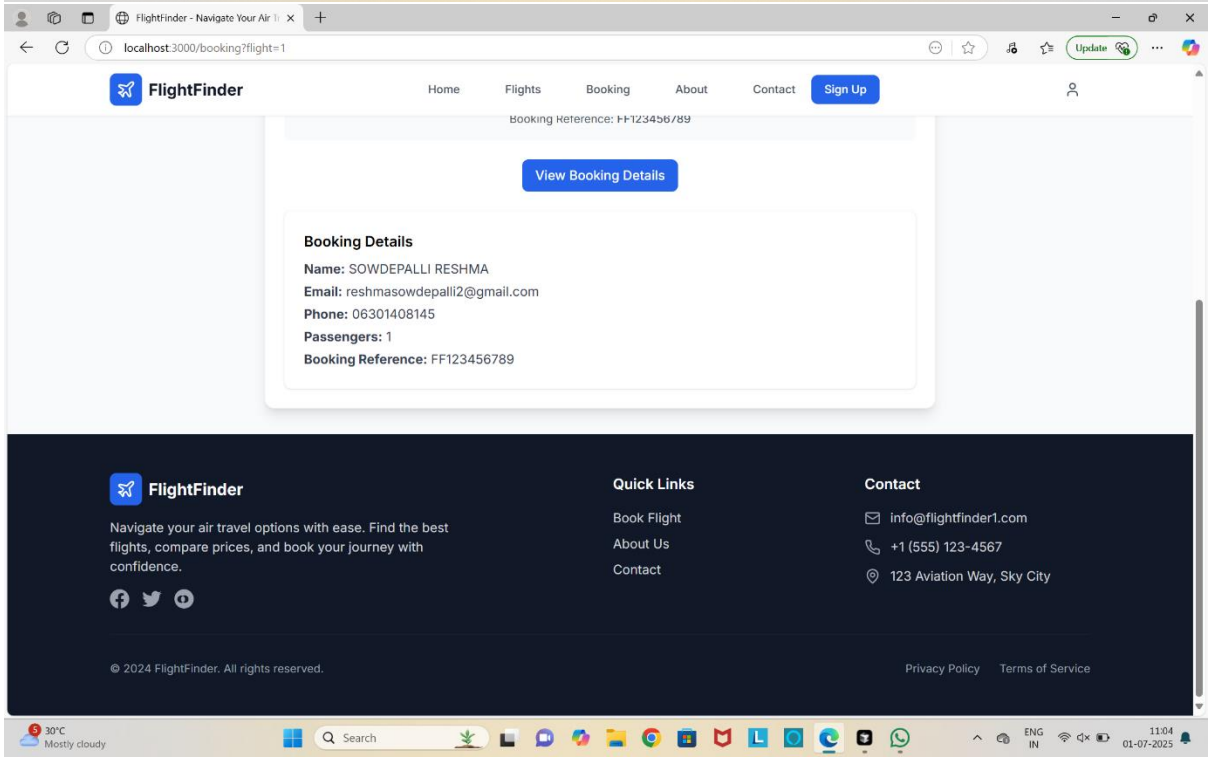
FlightFinder - Navigate Your Air
localhost:3000/booking?flight=1
Update
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About
Contact
Sign Up
Booking Reference: FF123456789
View Booking Details
Booking Details
Name: SOWDEPALLI RESHMA
Email: reshmasowdepalli2@gmail.com
Phone: 06301408145
Passengers: 1
Booking Reference: FF123456789
FlightFinder
Navigate your air travel options with ease. Find the best flights, compare prices, and book your journey with confidence.
Quick Links
Book Flight
About Us
Contact
Contact
info@flightfinder1.com
+1 (555) 123-4567
123 Aviation Way, Sky City
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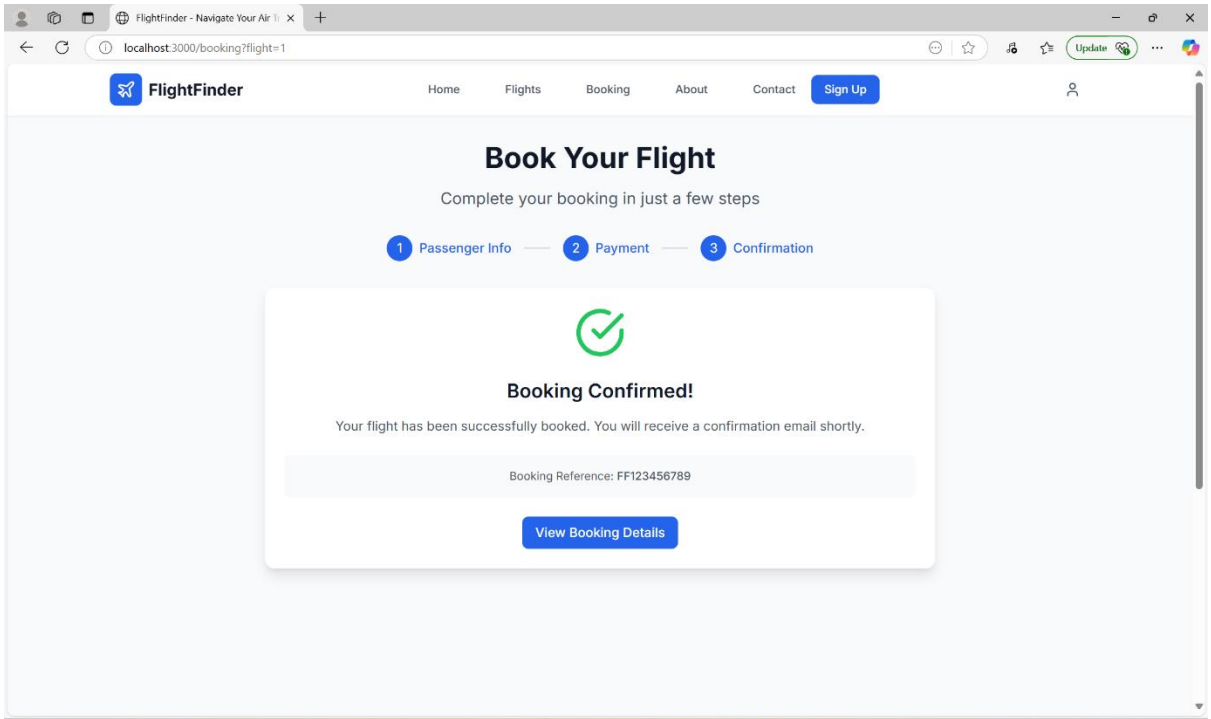
FlightFinder - Navigate Your Air
localhost:3000/booking?flight=1
Update
FlightFinder
Home
Flights
Booking
About
Contact
Sign Up
Book Your Flight
Complete your booking in just a few steps
1 Passenger Info
2 Payment
3 Confirmation
Booking Confirmed!
Your flight has been successfully booked. You will receive a confirmation email shortly.
Booking Reference: FF123456789
View Booking Details
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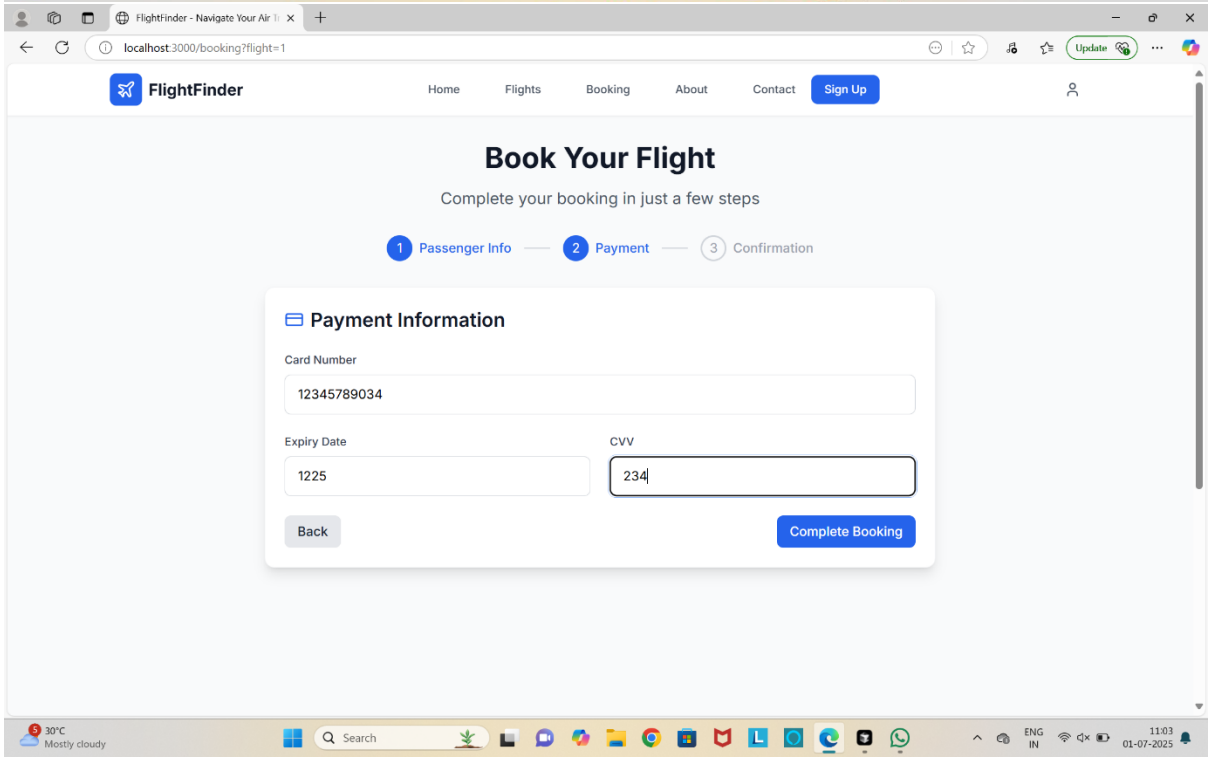
FlightFinder - Navigate Your Air
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Book Your Flight
Complete your booking in just a few steps
1 Passenger Info
2 Payment
3 Confirmation
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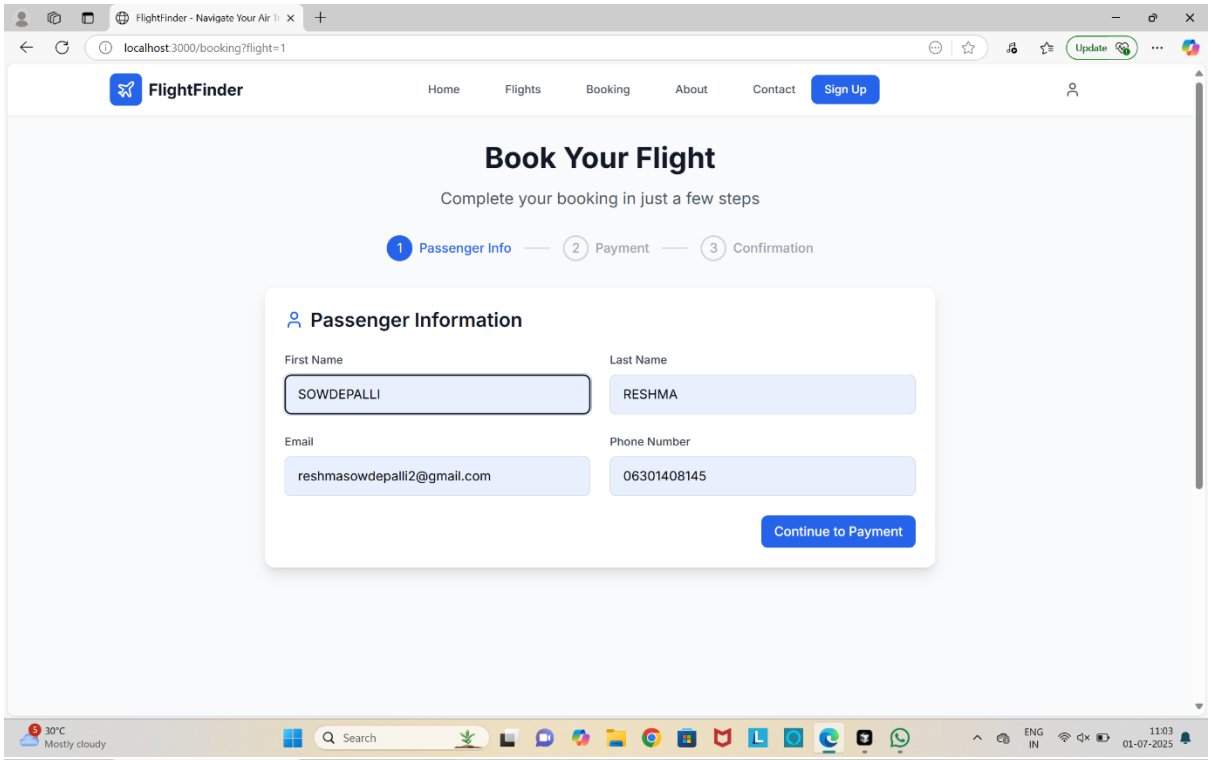
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Complete your booking in just a few steps
1 Passenger Info
2 Payment
3 Confirmation
Passenger Information
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Last Name
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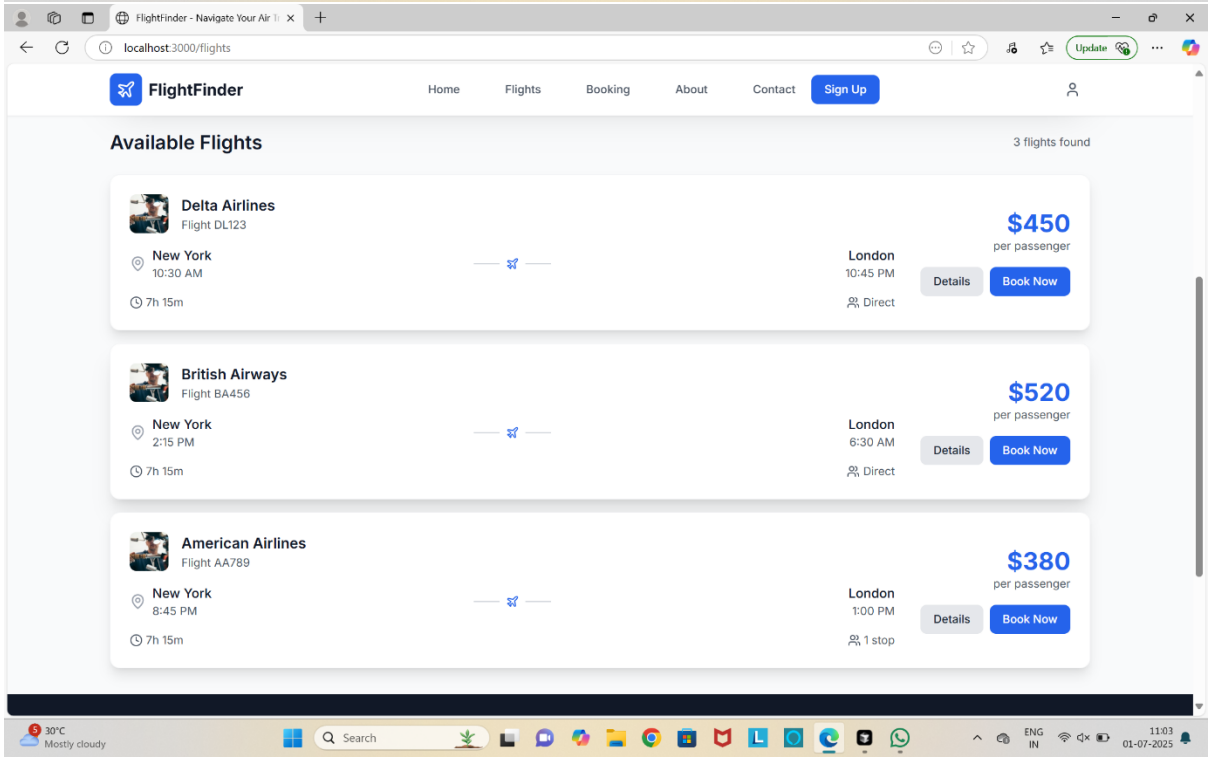
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Direct
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per passenger
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Book Now
British Airways
Flight BA456
New York
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London
6:30 AM
Direct
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American Airlines
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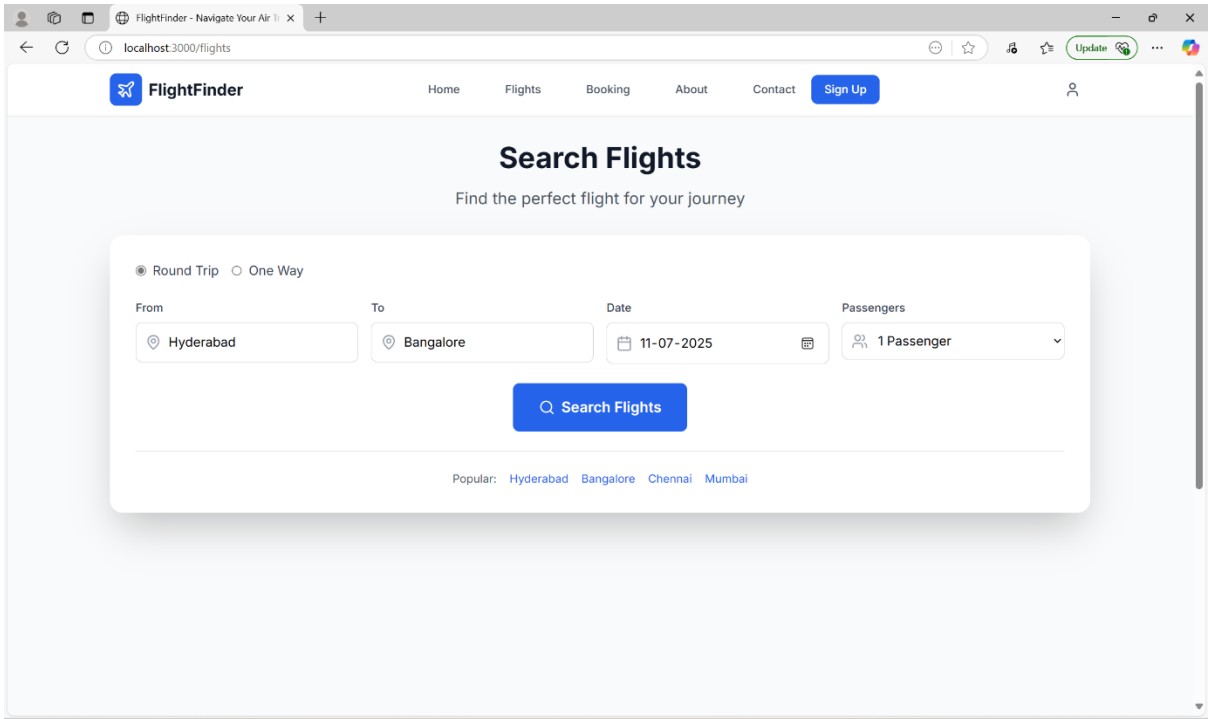
FlightFinder - Navigate Your Air
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Search Flights
Find the perfect flight for your journey
Round Trip
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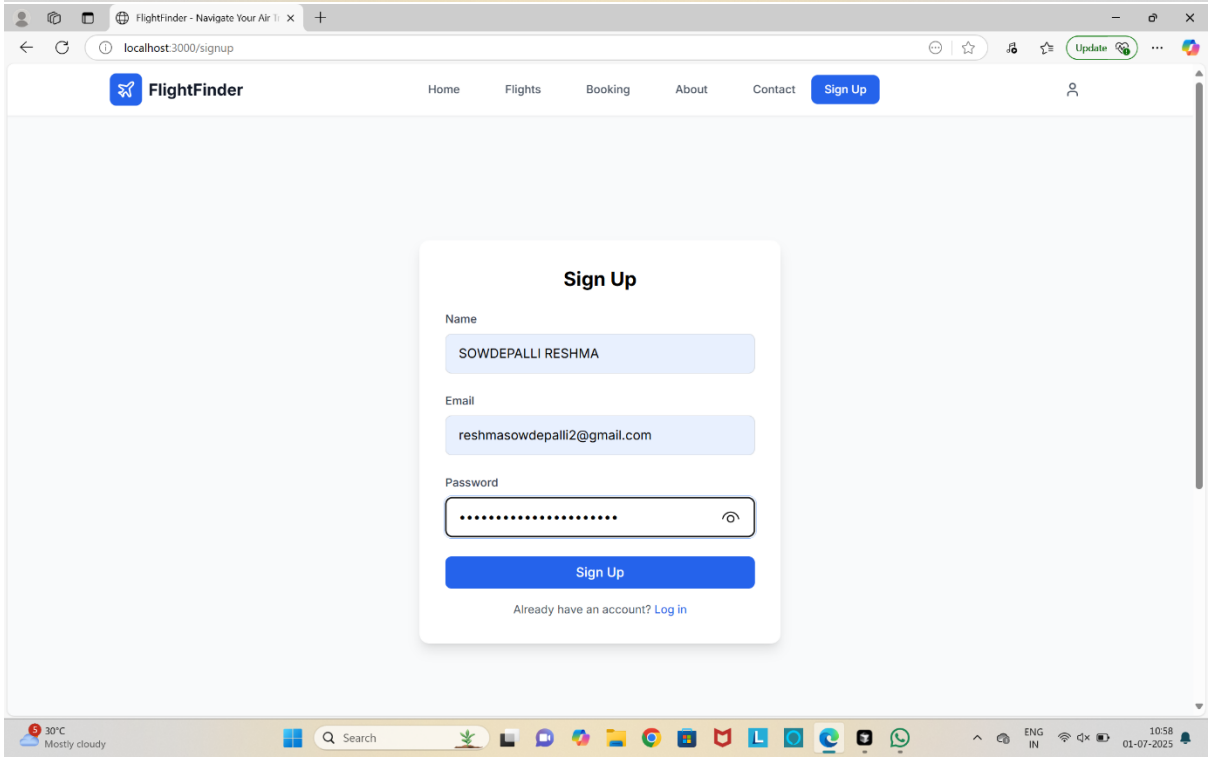
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Password
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Already have an account? Log in
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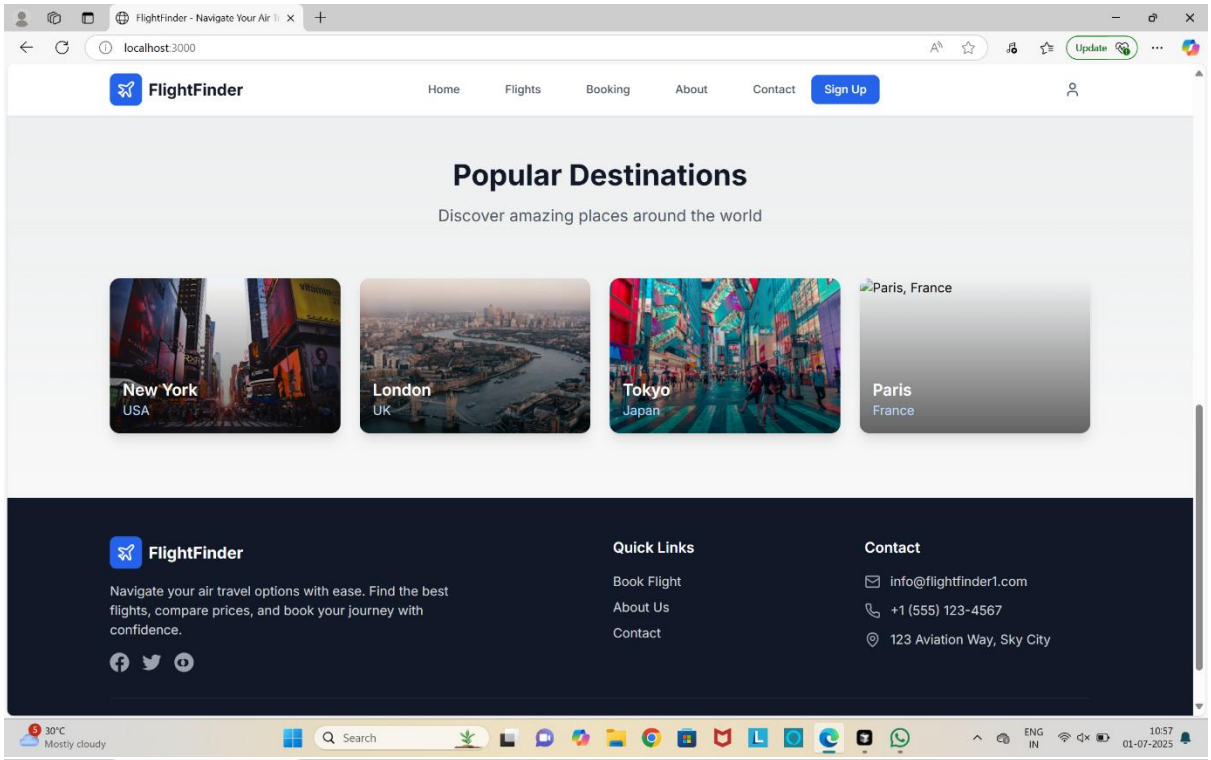
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Sign Up
Popular Destinations
Discover amazing places around the world
New York
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London
UK
Tokyo
Japan
Paris, France
Paris
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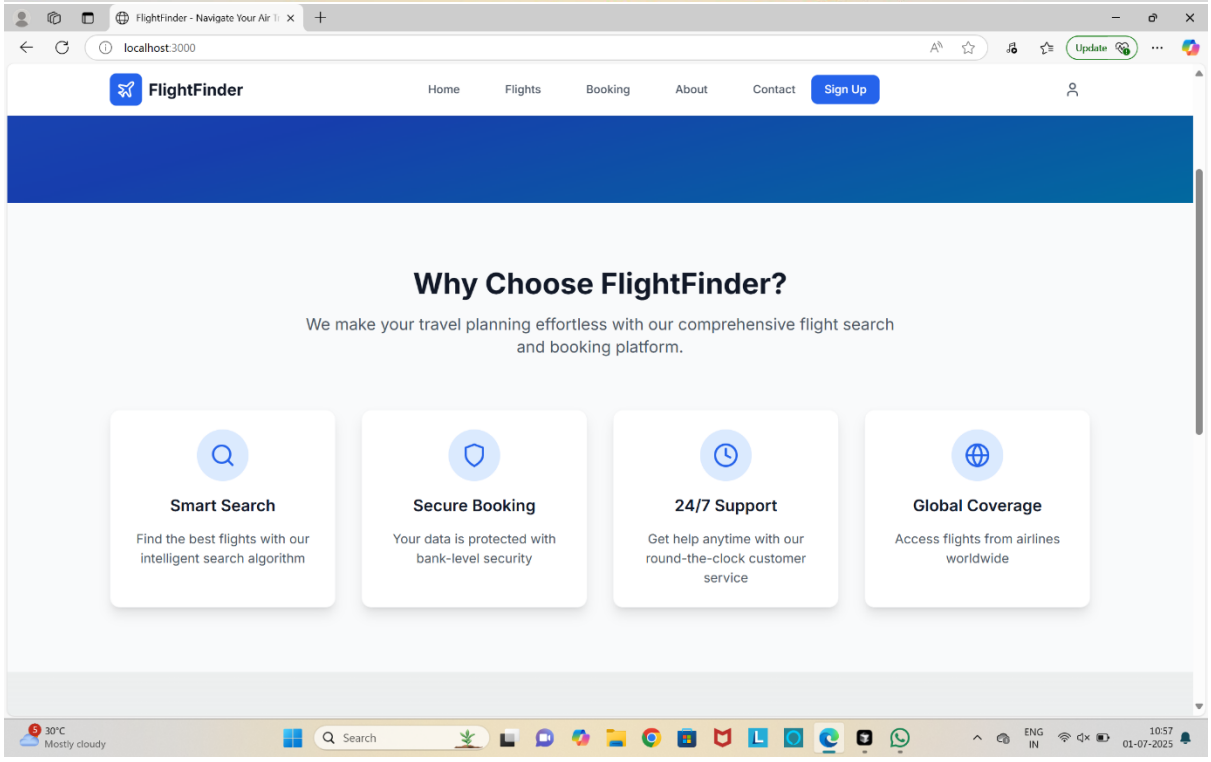
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Why Choose FlightFinder?
We make your travel planning effortless with our comprehensive flight search and booking platform.
Smart Search
Find the best flights with our intelligent search algorithm
Secure Booking
Your data is protected with bank-level security
24/7 Support
Get help anytime with our round-the-clock customer service
Global Coverage
Access flights from airlines worldwide
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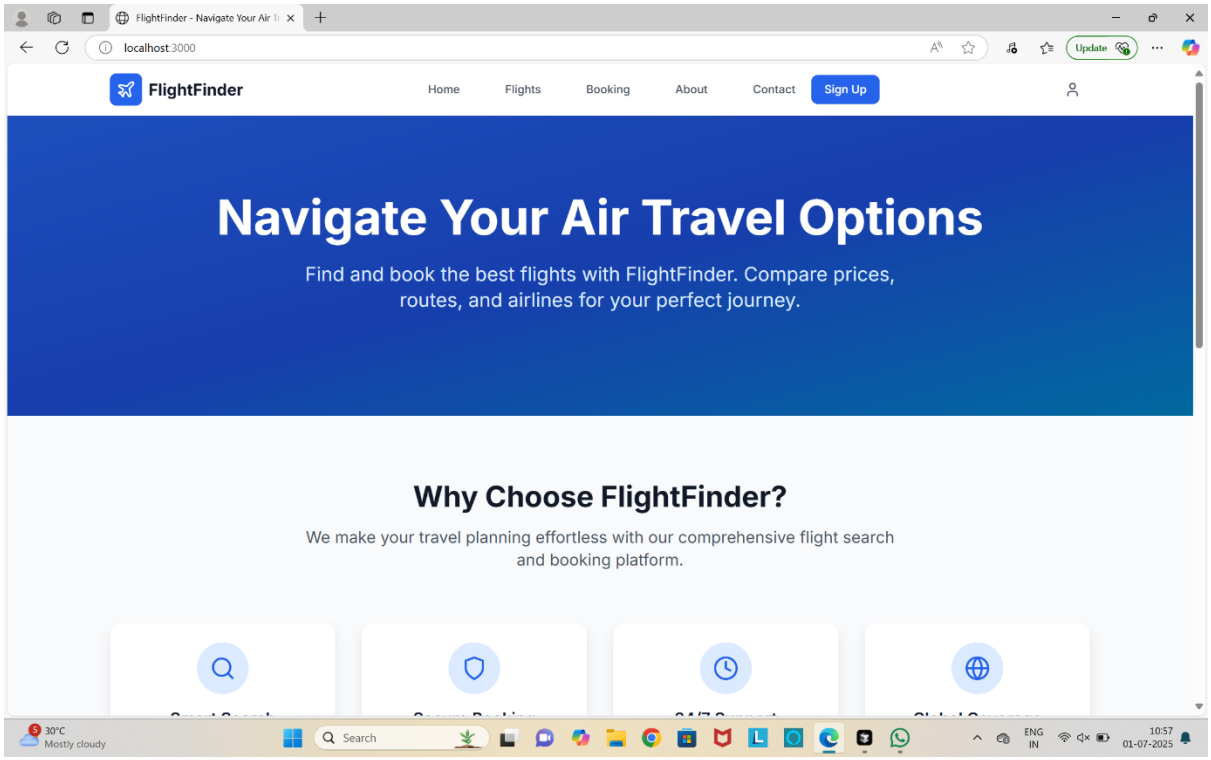

8. Advantages & Disadvantages

Advantages

Unified flight search

Quick comparisons and sorting

Secure, user-friendly booking

Responsive and intuitive UI

Disadvantages

Dependent on third-party APIs

No multi-city booking or seat selection yet

Payment gateway simulated (needs real integration)

9. Conclusion

FlightFinder delivers a compelling experience for flight search and booking with essential features covered. The UI is clean, the booking flow is logical, and user support is built-in.

10. Future Scope

Add multi-city booking

Seat selection, booking history

Real payment gateway

Mobile app version

Detailed booking confirmations & email notifications

11. Appendix

Source Code: [Reshma-sowdepalli/Flightfinder-Navigating-Your-Air-Travel-Options]

Project Demo: C:\Users\reshm\Videos\Captures