Flight Booking Application USE MERN STACK



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Introduction to the MERN Stack

MongoDB

Database for storing flight data, user information, and bookings.

React

Frontend framework for creating a dynamic and responsive user interface.

Flight Search & Booking

Core functionality allowing users to search for flights and make reservations.

Express.js

Backend framework for handling API requests and server-side logic.

Node.js

JavaScript runtime environment for executing the serverside code.

User Accounts

User registration, login, and profile management capabilities.



Overview of the Flight Booking Application

- 1 User Registration and Authentication
- Flight Search and Availability
- 3 Itinerary Management and Updates
- 4 Notifications and Reminders

User Registration and Authentication

Secure Sign-up

Implement user registration with email verification and password hashing

Seamless Login

Allow users to log in securely using their registered credentials

Password Recovery

Provide a mechanism for users to reset their forgotten passwords



Flight Search and Availability

Flight Search

Allow users to search for flights based on origin, destination, and travel dates

Availability Check

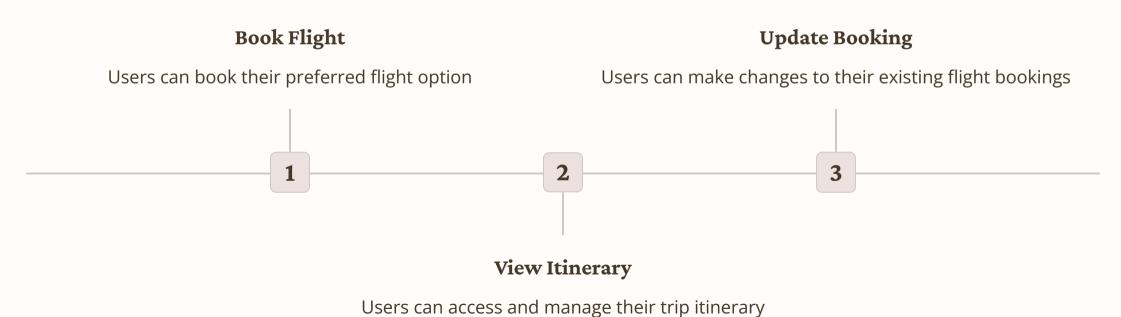
Display real-time flight availability and pricing information

Filtering and Sorting

Provide options to filter and sort search results by various criteria



Itinerary Management and Updates



6 Made with Gamma

Notifications and Reminders



Flight Confirmation

Users receive email confirmation for their bookings



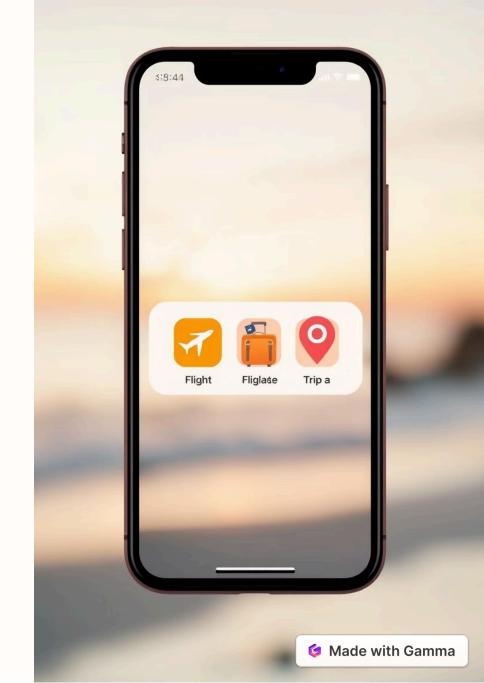
Trip Reminders

Users get timely notifications about their upcoming trips

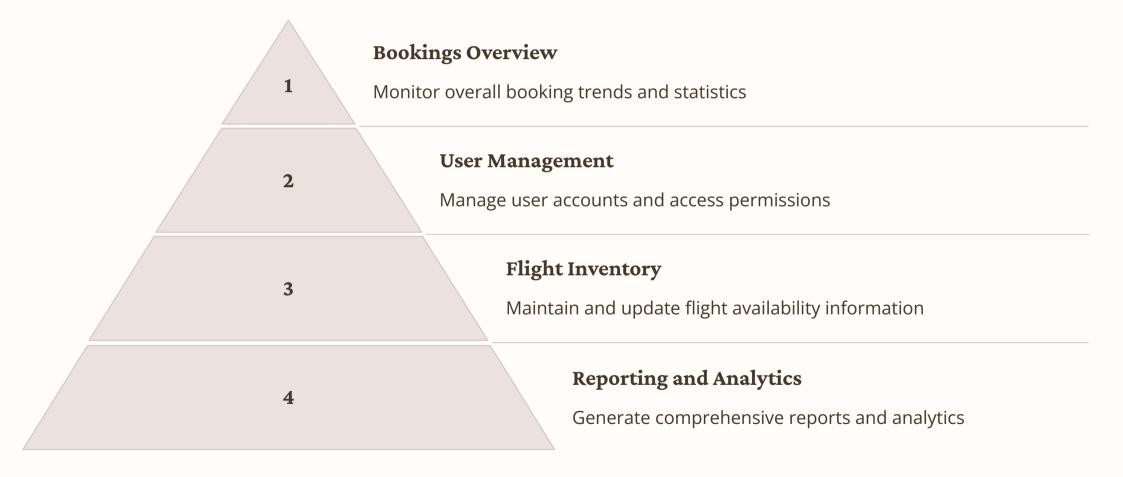


Mobile Alerts

Users can opt-in for push notifications on their mobile devices



Admin Dashboard and Analytics



Execution Part

1 Backend Development

Implement the server-side logic using Express and Node.js

2 Frontend Development

Build the user interface with React and supporting technologies

Database Integration

Integrate the MongoDB database to store and retrieve data

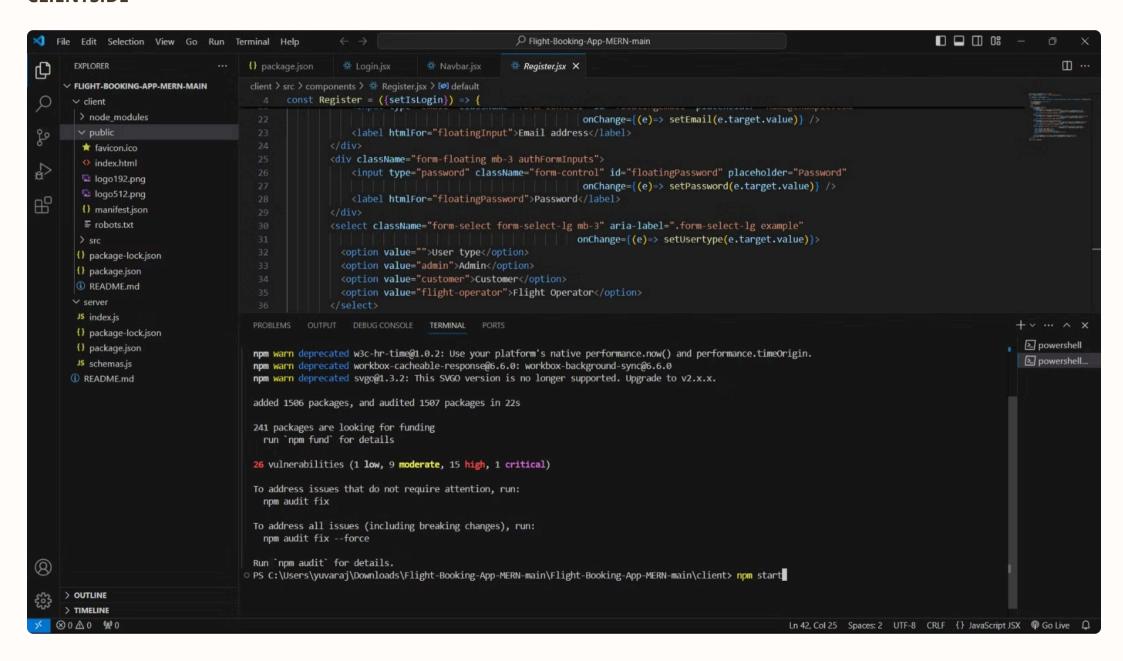
_____ Testing and Deployment

Conduct comprehensive testing and deploy the application



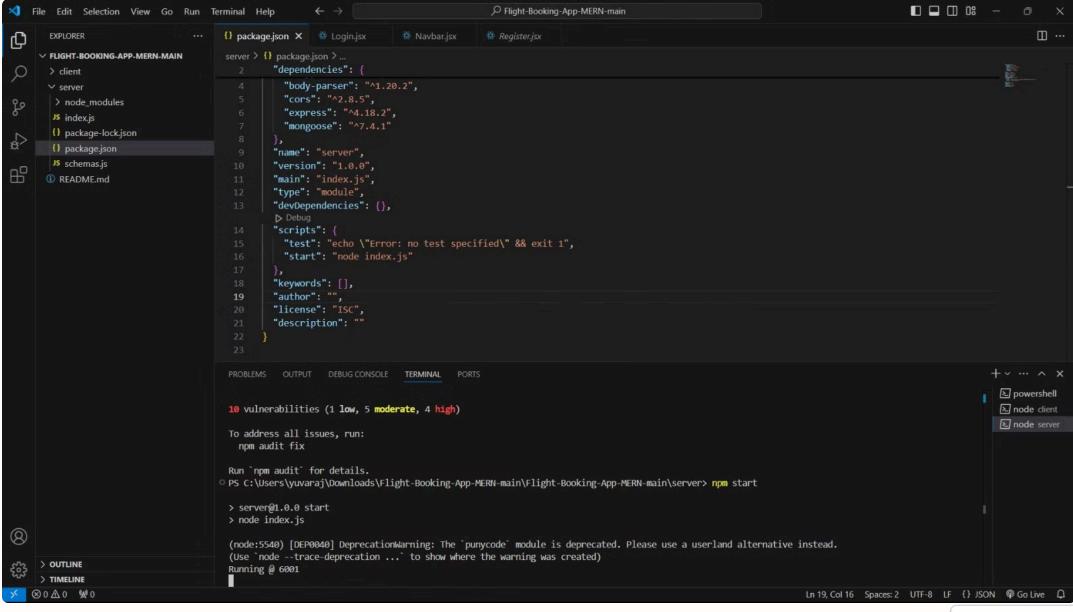
Execution

CLIENTSIDE



Execution

Serverside



Software Interfaces

HOME PAGE

LOGIN PAGE

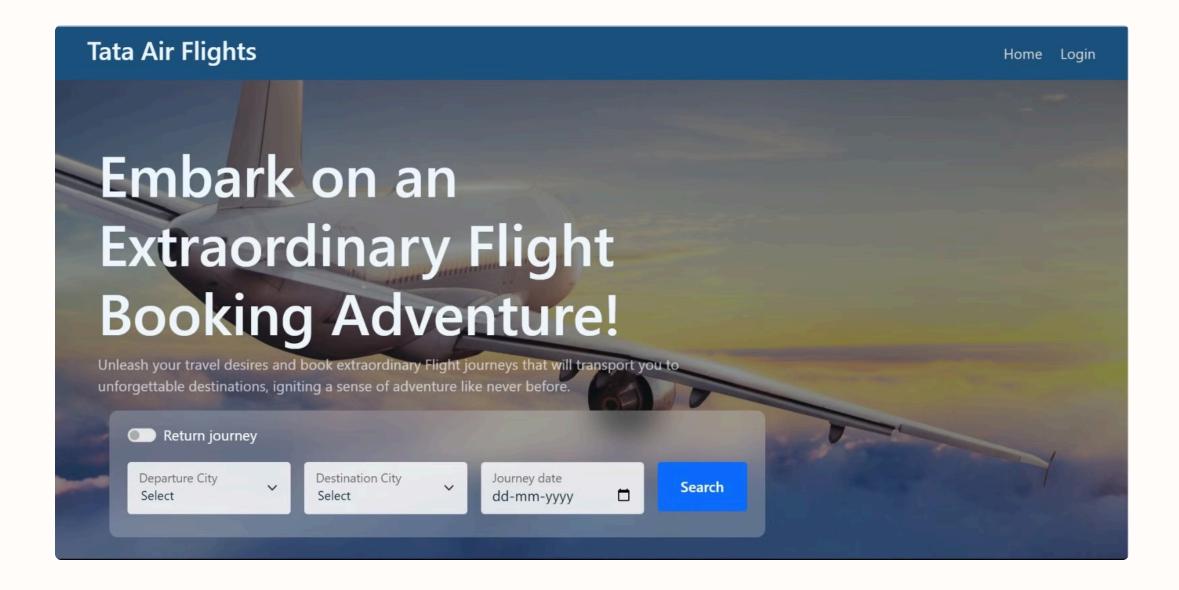
REGISTRATION PAGE

ADMIN INTERFACE

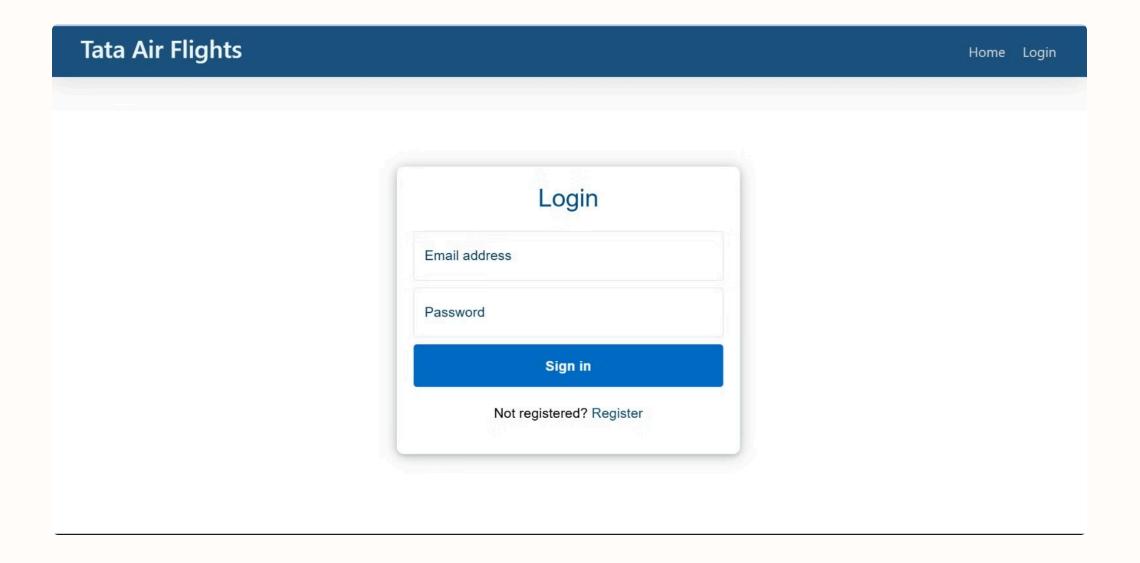
OPERATOR INTERFACE

CLIENT INTERFACE

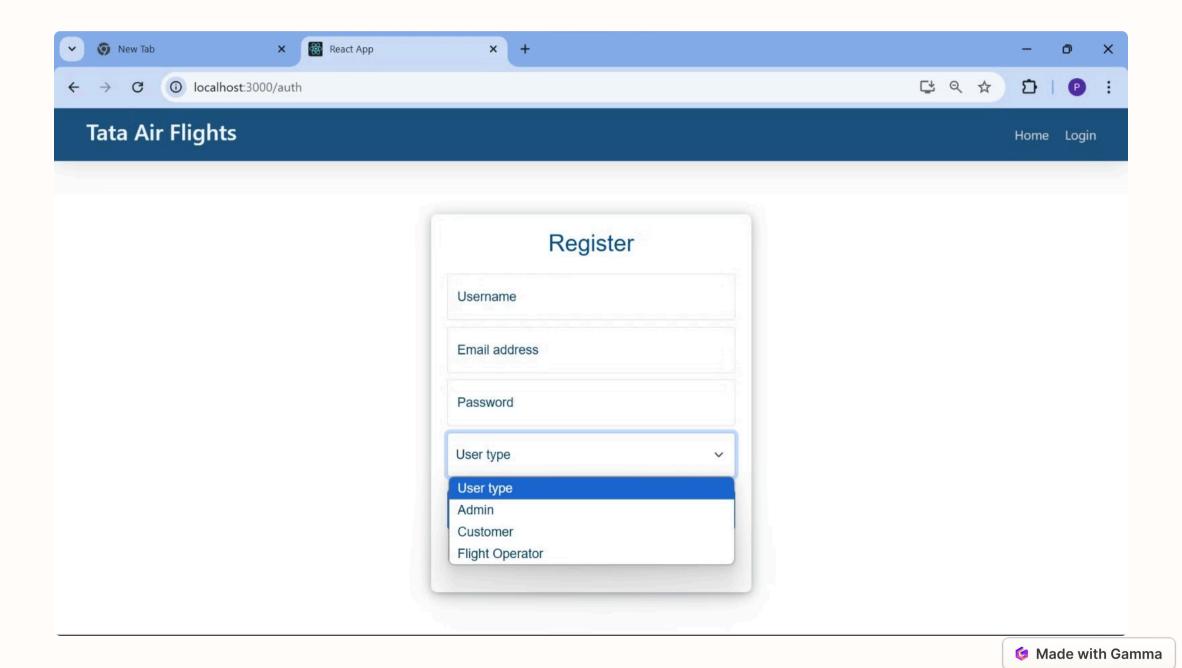
HOMEPAGE



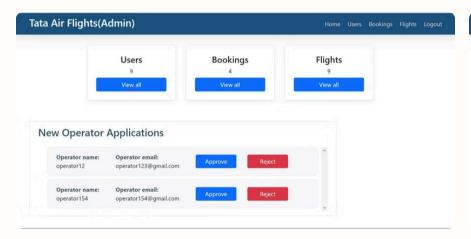
LOGIN PAGE

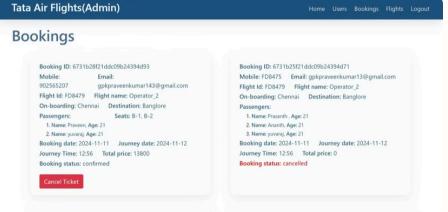


REGISTRATION PAGE

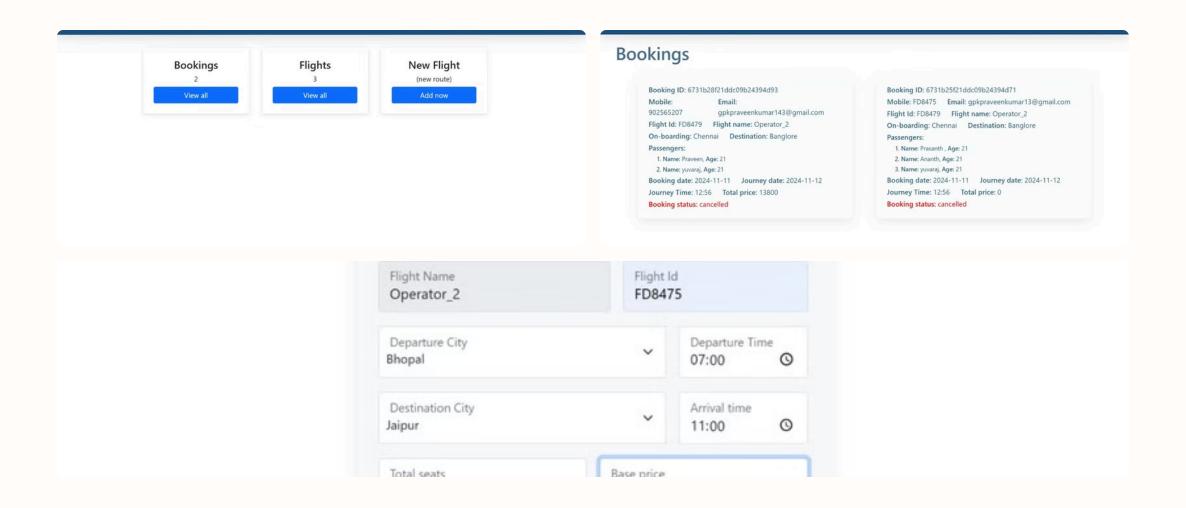


ADMIN INTERFACE

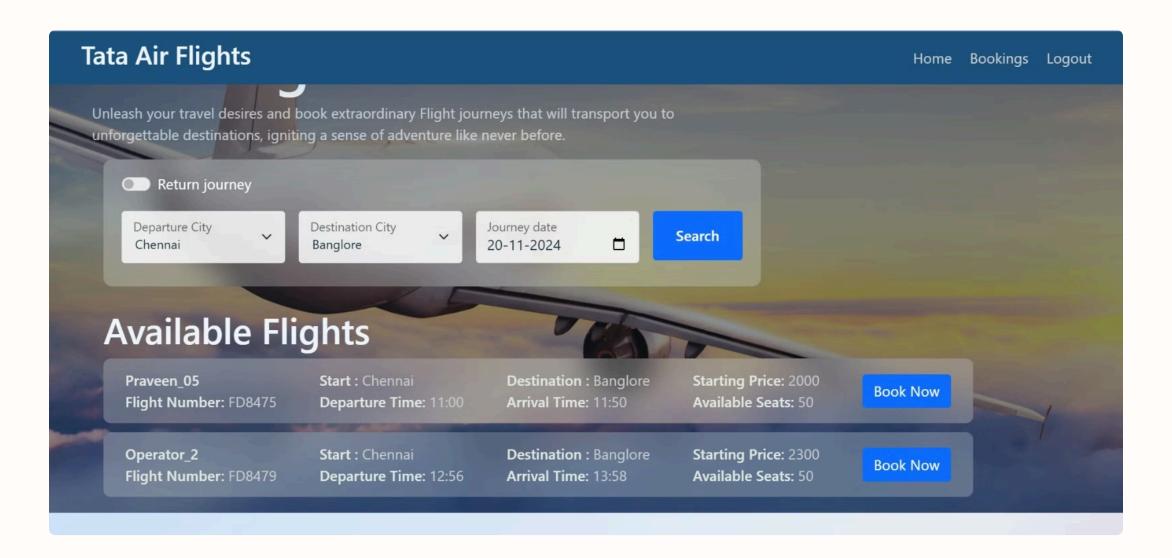


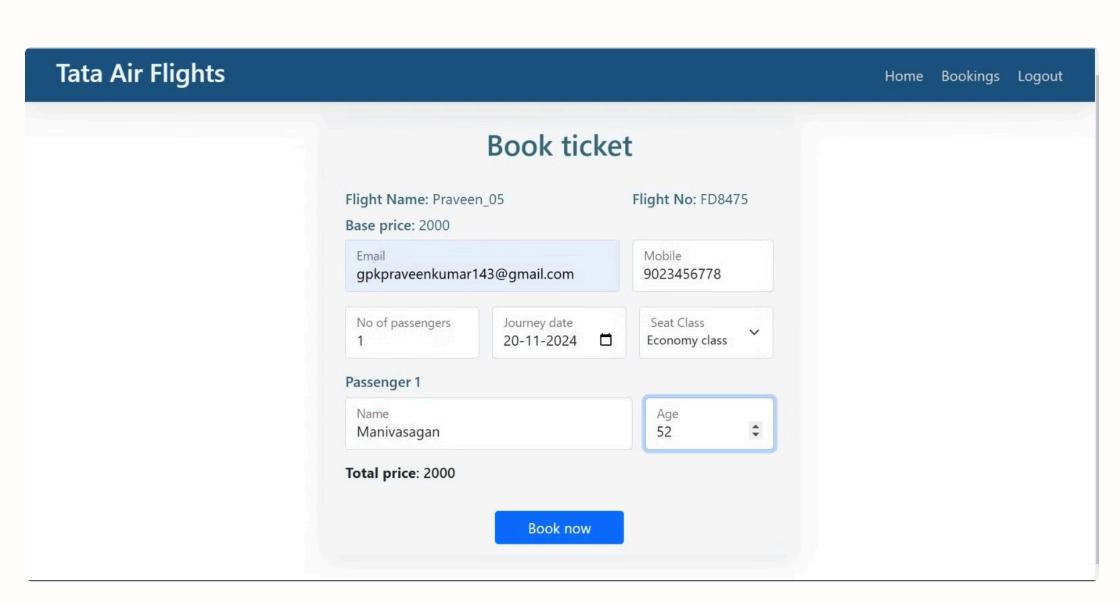


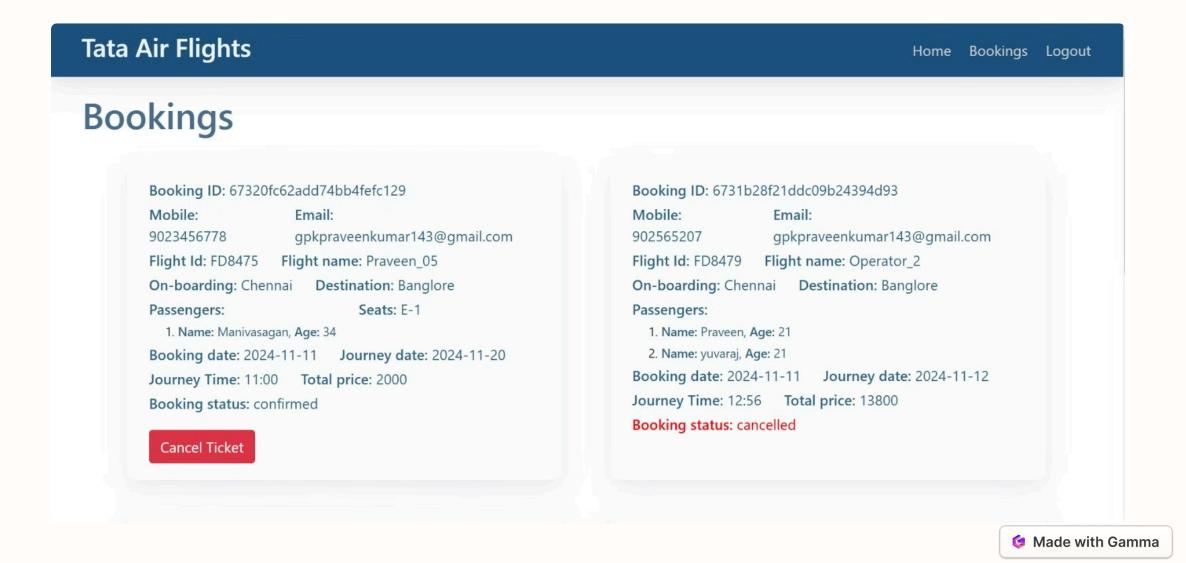
OPERATOR INTERFACE



CLIENT INTERFACE









Conclusion and Future Enhancements

Streamlined Experience

Seamless flight booking and management for users

Efficient Administration

Comprehensive tools for administrators to manage the application

Scalable and Extensible

Designed to handle growth and support future feature additions