

## FlightFinder – Project Overview

### Team Members

**Team ID:** LTVIP2025TMID56654

**Team Size :** 4

**Team Leader :** Veeranjaneyulu Vipparla

**Team member :** Bandi Sirisha

**Team member :** Pulusu Mohan Linga Reddy

**Team member :** Sreeram Jahnava

**Project Name:** FlightFinder

### Project Description

FlightFinder is a full-stack flight booking web application built using the MERN stack (MongoDB, Express.js, React.js, Node.js). It allows users to search for flights, book tickets, select seats, and manage their bookings. The platform also includes dashboards for Admins and Airline Operators to handle flight listings, approvals, and statistics.

### Key Features

- User registration & login (including Google OAuth)
- Search flights by source, destination, and date
- Seat selection and booking confirmation
- Role-based dashboards: User, Admin, Operator
- Admin approval for new operators
- Flight and booking management system
- Secure cookie-based authentication
- Zustand for global state management

## Tech Stack

- Frontend: React + Vite, Zustand, React Router, Font Awesome
- Backend: Node.js, Express.js
- Database: MongoDB with Mongoose
- Authentication: JWT, Cookies, Google OAuth
- Deployment: Render, GitHub, MongoDB Atlas

## Summary

FlightFinder demonstrates the integration of multiple modern web development technologies in a single project. It is scalable, responsive, and user-friendly. This project showcases real-world features with a clean UI, secure backend, and proper role-based management.