

Project Design Phase

Solution Architecture

Date	26 June 2025
Team id	LTVIP2025TMID20321
Project Name	Flight Finder
Maximum Marks	2 Marks

Objective:

To bridge the gap between the user-facing booking experience and backend management by implementing a modular full-stack solution.

Key Components:

Layer	Description
Frontend (React)	User-facing pages, admin dashboards, flight search, booking forms.
Backend (Node.js + Express)	API handling, authentication, CRUD for users, flights, and bookings.
Database (MongoDB)	Stores users, flights, bookings, and approval statuses.
Authentication	Role-based: user, admin, flight operator.
Deployment	Local development with optional cloud deployment (e.g., Heroku, Vercel).

Flow Summary:

1. User registers/logins → views flights → books → booking saved in MongoDB.
2. Admin/operator logs in → views dashboards → adds or edits flights.
3. Booking and user data are filtered per role and fetched via REST API endpoints.

SB Flights – Full Stack Web Application

