

Project Design Phase
Solution Architecture

Date	26 -05-2025
Team ID	LTVIP2025TMID59024
Project Name	Flightfinder-navigating your air travel options
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture for *FlightFinder* ensures a scalable, secure, and user-friendly platform for travelers to explore and book flight options. The system is built on the **MERN stack** with separate modules for **user**, **airline**, and **admin** roles.

The architecture emphasizes:

- Seamless flight search and booking functionality
- Real-time flight status and availability updates
- Secure user, airline, and admin authentication
- Scalable backend APIs with RESTful architecture
- Structured data flow between frontend, backend, and database
- Role-based dashboards with conditional rendering (e.g., user bookings, airline management, admin controls)
- Admin oversight for managing airlines, promotions, and system visibility

Example - Solution Architecture Diagram:

