

Project Design Phase
Solution Architecture

Date	03-12-2025
name	m.sriram
Project Name	Flight Booking System
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture for the **Flight Booking System** ensures a highly secure, scalable, and user-friendly platform that enables seamless air ticket booking. The architecture focuses on fast search performance, real-time airline data updates, smooth payment transactions, and reliable ticket generation to ensure a satisfying user experience for passengers and quick management workflows for admins.

- Seamless flight search and booking experience
- End-to-end ticket lifecycle: search → details → payment → ticket
- Scalable authentication system for both passengers and admin users
- Secure online payments and instant ticket / PNR generation
- Real-time airline data sync for availability and pricing
- Reliable notifications via SMS / Email for confirmations and updates
- Centralized management of flights, schedules, and booking records

Example - Solution Architecture Diagram:

