

Project Design Phase
Problem – Solution Fit

Date	03-12-2025
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Project Name	Flight Booking System
Maximum Marks	2 Marks

Problem – Solution Fit Overview:

The Problem–Solution Fit ensures that the **Flight Booking System** addresses real travel booking challenges faced by passengers and airline management. This validation confirms that the platform is solving the correct problems before scaling the solution further.

Purpose:

- Make it easier for passengers to search and book flights quickly and conveniently.
- Provide **accurate real-time flight availability and pricing** from airlines.
- Offer **secure online payment** and instant ticket generation (PNR).
- Maintain a **centralized system** for bookings, cancellations, and travel history.
- Enabled admin users to **manage flight schedules, pricing, and seat inventory**.
- Reduce travel booking errors, delays, and dependency on third-party agents.

Problem Statement:

Many airline passengers and travel administrators face challenges such as:

- Difficulty finding the right flights matching date, price, and destination
- Lack of transparency in pricing, seat availability, and schedules
- Delayed or failed payment and ticket confirmation
- No unified place to manage previous bookings and cancellations
- Airline staff struggle to manually maintain flight records and updates
- Poor user experience when booking via agents or outdated systems

Solution:

Flight Booking System, a user-friendly web platform, offers:

- End-to-end digital booking: search → select → enter details → pay → ticket
- Secure online payment and instant PNR / E-ticket generation
- Real-time flight data integration with airline systems
- Passenger booking history, cancellation support, and refund tracking
- Admin dashboard for managing flights, schedules, and pricing
- Responsive UI for smooth usage on mobile and desktop
- Automated notifications for booking confirmations and schedule changes