**Project Design Phase**

**Problem-Solution Fit**

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| Date | 22 June 2025 |
| Team ID | LTVIP2025TMID20428 |
| Project Name | FlightFinder |
| Mentor Name | Dr Shaik Salma Begam |
| Maximum Marks | 2 Marks |

**Problem-Solution Fit for Flight Finder:**

**Problem:**

Modern travelers often face **frustration, confusion, and inefficiency** while trying to book flights due to:

* Scattered flight information across multiple booking platforms
* Lack of **real-time fare updates**, especially for budget-conscious travelers
* Overwhelming user interfaces that make comparisons difficult
* Limited **personalization** in suggestions and search results
* Poor **post-booking experience** (no trip tracking, booking history, or updates)

These issues impact not only frequent flyers and professionals, but also students and occasional travelers who need **speed, clarity, and affordability** in their flight booking process.

**Solution**

*FlightFinder* is a modern, user-friendly flight search and booking application built using the **MERN stack (MongoDB, Express.js, React, Node.js)**, designed to simplify travel planning by offering:

* **Real-time flight search** with intuitive filters (date, route, price, airline)
* **Secure login options** via email, Google OAuth
* **Booking history, notifications, and email confirmations**
* **Simplified UI/UX** for both mobile and desktop users
* **Smart suggestions** based on past bookings and preferences
* **Scalability** for future features like loyalty rewards, chat support, and travel packages

With *FlightFinder*, users can book flights with **confidence, speed, and convenience**, eliminating the stress from travel planning.