**Project Design Phase**

**Proposed Solution Template**

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| Date | 23rd May 2025 |
| Team ID | LTVIP2025TMID20428 |
| Project Name | FlightFinder |
| Mentor Name | Dr Shaik Salma Begam |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in the proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Travelers, especially those with tight schedules or budget constraints, often struggle to find the best flight options quickly and affordably. There’s also a lack of real-time tracking, booking transparency, and personalized recommendations in many platforms. |
|  | Idea / Solution description | A modern, user-friendly flight booking platform built using React (with Bootstrap), Express.js, and MongoDB. It enables users to search, filter, and book flights efficiently, with features like booking history, real-time updates, authentication, and flight tracking. |
|  | Novelty / Uniqueness | Unlike generic travel sites, this app focuses on simplicity, speed, and user-centric features such as minimal-step booking, personalized suggestions based on travel history, and live tracking of bookings. |
|  | Social Impact / Customer Satisfaction | Enhances travel planning by providing transparent, affordable, and fast booking options, improving convenience for students, frequent travelers, and underserved regions with limited travel agents. |
|  | Business Model (Revenue Model) | Revenue can be generated through affiliate flight partnerships, booking service fees, ad placements, and premium services (early check-ins, travel insurance, or seat preferences). |
|  | Scalability of the Solution | Built on scalable MERN stack technologies (React, Express, MongoDB Atlas), the app can handle increasing user loads, expand to international flight APIs, and support mobile-first experiences in future updates. |

**our Solution: A Modern Flight Booking Platform**

we're proposing a modern, user-friendly flight booking platform built with **React (with Bootstrap)** for the frontend, **Express.js** for the backend, and **MongoDB** for the database. This **MERN stack** application would allow users to efficiently search, filter, and book flights. Key features would include:

* **Booking History:** Easily review past trips.
* **Real-time Updates:** Get the latest information on flight status.
* **User Authentication:** Secure and personalized user accounts.
* **Flight Tracking:** Keep an eye on your booked flights.

**What Makes our Platform Unique?**

Unlike many generic travel sites, your app emphasizes **simplicity, speed, and user-centric features**. This means:

* **Minimal-step Booking:** A streamlined process to get your tickets fast.
* **Personalized Suggestions:** Recommendations based on your travel history.
* **Live Tracking of Bookings:** Stay informed every step of the way.