**Project Design Phase**

**Proposed Solution Template**

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| --- | --- |
| Date | 26-06-2025 |
| Team ID | LTVIP2025TMID46399 |
| Project Name | FlightFinder |
| Maximum Marks | 2 Marks |

Proposed Solution for FlightFinder: Navigating Your Air Travel Options:

This section outlines the proposed solution for the 'FlightFinder: Navigating Your Air Travel Options' project by mapping the core problem, the idea being implemented, its novelty, social impact, and potential business model.  
FlightFinder: Navigating Your Air Travel Options is a web-based flight booking management platform designed to replace outdated disjointed airline booking systems with a fast, transparent, and accountable digital workflow for flight booking resolution.  
The following table summarizes the key parameters of the proposed solution.

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| **S. No.** | **Parameter** | **Description** |
| **1** | **Problem Statement** (Problem to be solved) | Many organizations and airlines rely on outdated or manual flight booking systems, leading to lost flights, slow responses, lack of transparency, and frustrated users. FlightFinder: Navigating Your Air Travel Options addresses this gap by providing a centralized platform for flight booking registration, tracking, and resolution. |
| **2** | **Idea / Solution Description** | FlightFinder: Navigating Your Air Travel Options is a full-stack flight booking management system built with React (frontend), Node.js & Express (backend), and MongoDB (database). It provides role-based dashboards for users, airline representatives, and admins to ensure seamless flight booking handling, status tracking, and resolution. Real-time communication and flight filtering and booking flows are integrated to reduce resolution time and improve accountability. |
| **3** | **Novelty / Uniqueness** | • End-to-end digital flight booking lifecycle in one platform • Real-time status tracking and automated alerts • Admin-controlled assignment and escalation • Role-based access and data-driven dashboards • Future-ready: WebRTC-based chat, analytics, and reports |
| **4** | **Social Impact / Customer Satisfaction** | • Enhances user trust in airline services • Builds transparency and reduces delays in flight booking handling • Enables responsive governance and public flight booking process • Promotes safety and accountability in institutions • Reduces flight booking abandonment rate and supports timely resolution |
| **5** | **Business Model (Revenue Model)** | Freemium model: Core flight booking handling is free for users • Enterprise SaaS licensing for travel agencies, airlines, or corporate portals • Add-on services for flight analytics, loyalty programs, or branded white-label deployments |

The proposed solution, FlightFinder: Navigating Your Air Travel Options, offers a complete digital transformation of traditional flight booking management workflows. By identifying the inefficiencies in disjointed airline booking systems and bridging them with automation, transparency, and real-time interaction, the platform ensures a smoother experience for both users and admins.

Its modular, scalable design makes it suitable not just for small organizations but also for large-scale deployments like municipal services, universities, or enterprise support systems. The inclusion of features like real-time tracking, workload-based airline representative assignment, and future-ready integration (WebRTC, analytics) highlights the project’s long-term viability.

Moreover, the potential for revenue generation via SaaS licensing and freemium services opens up avenues for sustainability and expansion. This strong alignment between user need, innovation, and execution makes FlightFinder: Navigating Your Air Travel Options a solution with both immediate value and future scalability.