**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 24 June 2025 |
| Team ID | LTVIP2025TMID56176 |
| Project Name | FlightFinder: Navigating Your Air Travel |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | **User Registration** | - Registration through Form- Registration through Gmail- Registration through LinkedIn |
| FR-2 | **User Confirmation** | - Confirmation via Email- Confirmation via OTP |
| FR-3 | **Flight Search & Filter** | - Search flights by source, destination, date, class- Filter by direct flights, preferred airlines, departure time |
| FR-4 | **Booking & Payment** | - Seat selection on seat map- Secure payment gateway integration- Generate e-ticket & booking confirmation |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

| **NFR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | **Usability** | The application should have an intuitive and user-friendly interface, allowing travelers to easily search, filter, and book flights with minimal steps. |
| NFR-2 | **Security** | User data (e.g., passwords, payment details) must be securely stored and transmitted using encryption (e.g., HTTPS, SSL/TLS). Implement secure authentication and authorization mechanisms. |
| NFR-3 | **Reliability** | The system must handle errors gracefully and provide consistent service, ensuring flight search, booking, and payment processes complete without failure under normal conditions. |
| NFR-4 | **Performance** | The app should load search results within 2–3 seconds and complete booking transactions quickly to ensure smooth user experience. |
| NFR-5 | **Availability** | The system should maintain at least 99% uptime so users can access flight booking services anytime. |
| NFR-6 | **Scalability** | The solution must support growth in number of users, flights, and bookings, handling peak loads (e.g., holiday seasons) by scaling backend resources as needed. |