Project Design Phase-II
Solution Requirements (Functional & Non-functional)

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

Functional Requirements:

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 No.	Non-Functional Requirement	Description
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.