**Project Design Phase-II**

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

|  |  |
| --- | --- |
| Date | 09 June 2025 |
| Team ID | LTVIP2025TMID59290 |
| Project Name | FlightFinder: Navigating Your Air Travel Options |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **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 & Booking | |  | | --- | |  |   Search Flights by Source, Destination, Date  Filter by Airline, Price, Time  Book Flights with Passenger Details and Payment |
| FR-4 | Booking History | View Past Bookings  View Upcoming Bookings |
| FR-5 | Live Flight Tracking | Track Flight by Booking Reference or Flight Number |
| FR-6 | Admin & Support Management | Admin: Add/Edit/Delete Flights  Admin: Manage User Accounts (Block/Delete) |

**Non-functional Requirements:**

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | |  | | --- | | The application should provide an intuitive and  user-friendly interface on both web and  mobile platforms. |  |  | | --- | |  | |
| NFR-2 | **Security** | |  | | --- | | User data must be protected using secure  authentication, encryption, and access control  mechanisms. |  |  | | --- | |  | |
| NFR-3 | **Reliability** | The system must consistently perform intended operations without failure during regular usage. |
| NFR-4 | **Performance** | The system should respond to user actions (e.g., search, booking) within 2 seconds under normal load. |
| NFR-5 | **Availability** | The system should be available 99.9% of the time, excluding scheduled maintenance. |
| NFR-6 | **Scalability** | The system must scale to handle increasing numbers of users, bookings, and concurrent sessions. |