Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date: 24 June 2025

Team ID: LTVIP2025TMID57557

Project Name: Flight Booking System

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 & Selection | Search flights by location/date View flight details Select preferred flight |
| FR-4 | Booking Management | Enter passenger details Review & confirm booking Generate booking reference |
| FR-5 | Payment Processing | Enter payment info Confirm payment Generate receipt |
| FR-6 | Booking History & Cancellation | View past bookings Cancel booking with reason Issue refund (if applicable) |

# Non-Functional Requirements:

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

|  |  |  |
| --- | --- | --- |
| FR No. | Non-Functional Requirement | Description |
| NFR-1 | Usability | The system should have a clean, user-friendly UI and support responsive design across devices. |
| NFR-2 | Security | Use HTTPS, password hashing, CORS, and OAuth for secure user authentication. |
| NFR-3 | Reliability | The system should ensure successful booking confirmation and recovery on failure. |
| NFR-4 | Performance | Pages should load under 2 seconds. API responses within 1s under normal load. |
| NFR-5 | Availability | System should maintain 99.9% uptime for core functionalities. |
| NFR-6 | Scalability | System should handle increase in bookings and user traffic using scalable architecture. |