**Project Design Phase-II**

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

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| Date | 15 JUNE 2025 |
| Team ID | LTVIP2025TMID46308 |
| Project Name | DOC SPOT |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

| **FR No.** | **Functional Requirement (Epic)** | **Sub-Requirements (Stories / Features)** |
| --- | --- | --- |
| **FR-1** | User Registration | - Register via traditional form (email & password) - Register using Gmail - Register using LinkedIn |
| **FR-2** | User Verification | - Account confirmation via email link - Account verification via OTP (optional) |
| **FR-3** | Appointment Booking | - Search doctors by specialization and location - View doctor profiles and available time slots - Book appointments with selected doctors |
| **FR-4** | Dashboard Access | - View upcoming appointments - Get real-time notifications (approvals, rejections, reminders) - Access past appointment history |

**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 provide an intuitive and responsive user interface for all user roles (patient, doctor, admin), accessible across devices. |
| **NFR-2** | Security | All user data must be encrypted. Authentication should use secure tokens (JWT), and sensitive API routes must be protected through proper access control. |
| **NFR-3** | Reliability | The system should operate without crashing or unexpected behavior under normal usage. It must handle exceptions gracefully and auto-recover from failures. |
| **NFR-4** | Performance | The app should load within 3 seconds on standard connections and handle concurrent access by multiple users without performance degradation. |
| **NFR-5** | Availability | The system should maintain **99.5% uptime**, especially during peak working hours. Scheduled maintenance should be minimized and notified in advance. |
| **NFR-6** | Scalability | The architecture should support future growth, including more users, doctors, features (like video consultations), and traffic without redesign. |

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