**Project Design Phase-II**

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

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| Date | **27 June 2025** |
| Team ID | **LTVIP2025TMID60609** |
| Project Name | **DocSpot: Seamless Appointment Booking for Health.** |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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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 | **User Login** | - Login via Email & Password - Login via Gmail/Facebook - Forgot Password/Reset Flow |
| FR-4 | **Doctor Listing & Filtering** | - View doctor list - Filter by specialty, location, availability, ratings |
| FR-5 | **Appointment Booking** | - Book available time slot - Reschedule or cancel appointment - Receive booking confirmation |
| FR-6 | **Teleconsultation** | - Join video call via app - In-call chat and file sharing (optional) |
| FR-7 | **Admin Panel** | - Add/edit/delete doctors - Manage time slots - View all appointments |
| FR-8 | **Notifications** | - Email/SMS for registration, booking, cancellation - Appointment reminders |
| FR-9 | **User Dashboard** | - View profile, past & upcoming appointments - Edit profile information |

**Non-functional Requirements:**

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

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| **NFR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Interface should be intuitive, responsive, and mobile-friendly for all user types. |
| NFR-2 | **Security** | All data must be encrypted; implement authentication, password hashing, and role-based access. |
| NFR-3 | **Reliability** | System must be consistently available with minimal downtime and robust error handling. |
| NFR-4 | **Performance** | Pages and APIs should load within 2 seconds; video calls should support low-latency streaming. |
| NFR-5 | **Availability** | Ensure 99.9% uptime during service hours; fallback for booking during maintenance. |
| NFR-6 | **Scalability** | Architecture should support growing number of users, doctors, and concurrent appointments. |