**Project Design Phase-II**

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

| Date | 30 August 2025 |
| --- | --- |
| Team ID | LTVIP2025TMID61036 |
| Project Name | DocSpot: Seamless Appointment Booking for Health |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

**Functional Requirements – Appointment Booking Platform**

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| **FR-1** | **User Authentication** | Sign up, Login, Password Reset OAuth login using Google / Apple / Health ID |
| **FR-2** | **Doctor & Clinic Discovery** | Search doctors by specialty, location, availability Filter by ratings, fees, consultation type (online/offline) |
| **FR-3** | **Appointment Booking & Management** | Patients can book, reschedule, or cancel appointments Doctors/clinics can manage schedules and availability |
| **FR-4** | **Notifications & Reminders** | SMS/Email/App reminders for upcoming appointments Instant updates on changes/cancellations |
| **FR-5** | **Payments & Invoicing** | Online payment integration (cards, UPI, wallets) Generate invoices/receipts for patients |
| **FR-6** | **Telehealth Integration** | Secure video consultation module File sharing (lab reports, prescriptions) |
| **FR-7** | **Reviews & Feedback** | Patients can rate and review doctors/clinics Doctors can respond to feedback |

**Non-functional Requirements:**

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

| **NFR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| **NFR-1** | **Usability** | The platform should offer a clean, intuitive UI for patients and doctors of all ages. |
| **NFR-2** | **Security** | All patient data and medical records must be encrypted (HIPAA/GDPR compliance). Role-based access and secure authentication required. |
| **NFR-3** | **Reliability** | Appointment booking, reminders, and telehealth sessions must work consistently under all conditions. |
| **NFR-4** | **Performance** | Search results, booking actions, and notifications should be near-instant. Pages should load within 2 seconds. |
| **NFR-5** | **Availability** | The system should maintain **99.9% uptime**, especially for telehealth services. |
| **NFR-6** | **Scalability** | Must handle high traffic during peak hours and support rapid onboarding of doctors across multiple regions. |
| **NFR-7** | **Compliance** | System should comply with healthcare data regulations and medical ethics policies. |