**Project Design Phase-II**

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

|  |  |
| --- | --- |
| Date | 15 JUNE 2025 |
| Team ID | LTVIP2025TMID46320 |
| 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 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 | |  | | --- | |  |  |  | | --- | | Appointment Booking | | |  | | --- | | Search doctors by specialization/location |  |  |  |  | | --- | --- | --- | |  |  | View doctor profile and availability |  |  |  |  | | --- | --- | --- | |  |  | Book appointment with preferred doctor | |
| FR-4 | Dashboard Access | View upcoming appointments  Notifications for approvals & cancellations  Access past appointment history |

**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 be user-friendly with a clean UI and intuitive navigation for all user types (patients, doctors, admin). |
| NFR-2 | **Security** | User data must be securely stored using encryption; login should be protected by authentication tokens (JWT); sensitive APIs should be access-controlled. |
| NFR-3 | **Reliability** | |  | | --- | |  |  |  | | --- | | The system should operate without failure under expected usage; it should handle common exceptions and restore from crashes gracefully. | |
| NFR-4 | **Performance** | The application should load within 3 seconds and handle multiple users without significant slowdown. |
| NFR-5 | **Availability** | The platform should be available 99.5% of the time, especially during working hours. Downtime should be minimized. |
| NFR-6 | **Scalability** | |  | | --- | |  |  |  | | --- | | The system should support future increase in users, doctors, and appointments without requiring major redesign. | |