**Project Design Phase-II**

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

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| Date | 31 January 2025 |
| Team ID | SWTID1743353335 |
| Project Name | Book a doctor using MERN |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

The 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 & Login | Registration through form and mail |
| FR-2 | User Confirmation | NA |
| FR-3 | Role-Based Dashboard | Patient Dashboard: Search Doctors, Book Appointments  Doctor Dashboard: Manage Availability, View Appointments  Admin Dashboard: Approve Doctors, Manage Users |
| FR-4 | Appointment Booking | Select Doctor and Slot  Book Appointment  View Booking Status |
| FR-5 | Payment Integration | Initiate Payment via Gateway (Stripe)  Confirm Payment  Link Payment Status with Appointment |
| FR-6 | User Management by Admin | Add/Remove/Deactivate Users  Verify Doctor Credentials  Monitor Platform Activity |

**Non-functional Requirements:**

The following are the non-functional requirements of the proposed solution

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Clean, intuitive, and responsive user interface for all roles |
| NFR-2 | **Security** | Secure login with JWT, encrypted passwords, and HTTPS |
| NFR-3 | **Reliability** | Account security and reliable booking flow |
| NFR-4 | **Performance** | Fast API response, optimized database queries, and efficient backend |
| NFR-5 | **Availability** | Hosted on reliable platforms with minimal downtime |
| NFR-6 | **Scalability** | Easily extendable to support more users |