**Requirement Gathering and Analysis Phase**

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

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| --- | --- |
| Date |  |
| Team ID | SWTID1720026558 |
| Project Name | BOOK A DOCTOR USING MERN |
| Maximum 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 | Appointment Booking | View available doctors  Select doctor based on specialization and location  Bok an appointment with chosen doctor  Provide necessary documents (if required) |
| FR-4 | User Profile Management | Edit user profile details  View appointment history  Cancel or reschedule appointments |
| FR-5 | Doctor Management | Register as a doctor  Manage doctor profile  View scheduled appointments |
| FR-6 | Admin Dashboard | Approve doctor registrations  Monitor overall platform activities  Resolve user disputes and issues |

**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The application should have an intuitive and user-friendly interface to ensure ease of use for all types of users, including patients, doctors, and administrators. |
| NFR-2 | **Security** | The application should implement robust security measures to protect user data, prevent unauthorized access, and ensure secure transactions. This includes encryption of sensitive information and adherence to industry standards for data protection. |
| NFR-3 | **Reliability** | The application should operate reliably under normal conditions, with minimal downtime or disruptions. It should handle user interactions and data transactions consistently without errors. |
| NFR-4 | **Performance** | The application should perform efficiently and respond quickly to user actions, especially during peak usage times. Response times for loading pages, processing requests, and retrieving data should be optimized. |
| NFR-5 | **Availability** | The application should be highly available, ensuring access to users 24/7. It should have mechanisms in place to handle server failures or maintenance periods with minimal impact on users. |
| NFR-6 | **Scalability** | The application should be designed to scale easily as user traffic and data volumes increase. It should support adding new users, doctors, and appointments without significant performance degradation or system redesign. |