**Requirement Gathering and Analysis Phase**

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

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| --- | --- |
| Date | 06 July 2024 |
| Team ID | PNT2022TMID SWTID1720010842 |
| Project Name | Book a Doctor |
| Maximum Marks | 2 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 | Select doctor  Choose date and time  Confirm appointment |
| FR-4 | Appointment Management | View appointments  Reschedule appointment  Cancel appointment |
| FR-5 | Doctor Availability Management | Set availability  Update availability |
| FR-6 | Patient Management | View medical history  Update personal information |
| FR-7 | Doctor Management | Add new doctor  Update doctor information |
| FR-8 | Notifications | Appointment reminder via Email  Appointment reminder via SMS |
| FR-9 | Reports | Generate appointment reports  Generate patient reports |

**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 system should have an intuitive and user-friendly interface for easy navigation. |
| NFR-2 | **Security** | The system should ensure data protection through encryption and secure authentication mechanisms (e.g., SSL, two-factor authentication). |
| NFR-3 | **Reliability** | The system should provide consistent performance and accurately handle transactions without failure. Regular backups should be maintained. |
| NFR-4 | **Performance** | The system should respond to user actions within 2 seconds under normal load conditions. |
| NFR-5 | **Availability** | The system should be available 99.9% of the time, ensuring minimal downtime. |
| NFR-6 | **Scalability** | The system should handle an increasing number of users and transactions without degrading performance. The architecture should support horizontal and vertical scaling. |