**Requirement Analysis**

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

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| --- | --- |
| Date | 27-06-2025 |
| Team ID | LTVIP2025TMID46688 |
| Project Name | DocSpot |
| Maximum Marks | 4 Marks |

**Functional and Non-Functional Requirements – DocSpot**

**Functional Requirements**

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| **S.No** | **Requirement** | **Description** |
| 1 | User Registration | Users can register with name, email, and password |
| 2 | User Login | Registered users can log in securely |
| 3 | Apply as Doctor | Users can submit doctor applications for admin review |
| 4 | Admin Dashboard | Admin can view, approve, or reject doctor applications |
| 5 | Doctor Dashboard | Approved doctors can log in and view their appointments |
| 6 | User Dashboard | Users can view upcoming/past appointments and manage bookings |
| 7 | Appointment Booking | Users can book appointments with available doctors |
| 8 | Notification System | Users and doctors receive notifications for booking and approval updates |
| 9 | JWT Authentication | Secure login and route protection using JWT tokens |
| 10 | Role-Based Access | Different dashboards accessible based on user type (user/doctor/admin) |

**Non-Functional Requirements**

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| **S.No** | **Requirement** | **Description** |
| 1 | Performance | Pages and APIs should load within 2–3 seconds |
| 2 | Security | Passwords hashed using bcrypts; JWT for secure sessions |
| 3 | Scalability | System should support future modules like prescriptions or teleconsultation |
| 4 | Availability | Application should be accessible 24/7 without crashes |
| 5 | Usability | User-friendly interface that requires minimal guidance |
| 6 | Maintainability | Code should be modular and easy to debug or extend |
| 7 | Responsiveness | Works on desktops, tablets, and smartphones seamlessly |
| 8 | Compatibility | Supports all major modern browsers (Chrome, Firefox, Edge, Safari) |