### Overview of Software Requirements for Online Doctor Appointment Application

#### 2. Objectives

The primary objectives of the Online Doctor Appointment Application are:

- To provide a user-friendly interface for patients to book appointments with doctors.

- To allow doctors to manage their schedules and patient appointments effectively.

- To ensure secure handling of patient data and medical records.

- To facilitate communication between patients and healthcare providers.

- To provide notifications and reminders to patients and doctors about upcoming appointments.

#### 3. Scope

The scope of the Online Doctor Appointment Application includes:

- \*\*User Registration and Authentication\*\*: Allowing new users (patients and doctors) to sign up and existing users to log in securely.

- \*\*Profile Management\*\*: Enabling users to manage their personal and medical profiles.

- \*\*Appointment Scheduling\*\*: Providing functionality for patients to view available time slots and book appointments.

- \*\*Doctor Availability Management\*\*: Allowing doctors to set their available hours and manage their appointment slots.

- \*\*Notifications and Reminders\*\*: Sending automated notifications and reminders via email/SMS to users regarding their appointments.

- \*\*Payment Integration\*\*: Facilitating online payments for consultations where applicable.

- \*\*Search Functionality\*\*: Enabling patients to search for doctors based on specialization, location, and availability.

- \*\*Patient Feedback and Ratings\*\*: Allowing patients to rate and provide feedback on their consultations.

- \*\*Reports and Analytics\*\*: Providing doctors and administrators with insights and reports on appointment statistics and user engagement.

#### 4. User Roles

The application will cater to the following user roles:

- \*\*Patients\*\*: Individuals seeking medical consultations who can book, reschedule, and cancel appointments, manage their profiles, and provide feedback on their consultations.

- \*\*Doctors\*\*: Medical professionals who can manage their appointment schedules, view patient profiles, and receive feedback.

- \*\*Administrators\*\*: Users responsible for overseeing the system's operation, managing user accounts, handling disputes, and ensuring compliance with regulations.

#### 5. Key Features

**Feature 1: Book an Appointment**

#### Feature 2: Reschedule an Appointment

#### Feature 3: Receive Appointment Notifications

#### 8. Performance Requirements

The application should meet the following performance benchmarks:

- \*\*Scalability\*\*: Able to handle an increasing number of users and appointments without performance degradation.

- \*\*Reliability\*\*: High availability with minimal downtime.

- \*\*Response Time\*\*: Quick response times for booking and managing appointments, ideally within a few seconds.