ONLINE APPOINTMENT FOR HEALTHCARE CLINIC

Functional Requirements Document (FRD)

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1. **Introduction**
   1. **Purpose**

This document defines the functional requirements for the Online Appointment Booking System for the Healthcare Clinic. It expands upon the high-level business requirements outlined in the BRD.

* 1. **Scope**

This system will allow patients to book, reschedule, and cancel appointments online. It includes role-based access for patients, doctors, and clinic admins. Reporting and notification features are also part of the scope.

1. **Functional Requirements**
   1. **Overview**

The Online Healthcare Appointment Booking System will deliver a range of features designed to enhance the patient experience and optimize the scheduling workflow for clinic staff and doctors. The following sections outline the detailed functionalities the system must support, as derived from the Business Requirements Document (BRD).

* 1. **Functional Requirements Table**

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Description | Priority | Dependencies |
| FR-001 | Appointment Booking | Must Have | FR-005 |
| FR-002 | Rescheduling & Cancellation | Must Have | FR-001, FR-006 |
| FR-003 | Doctor Manual Override | Must Have | FR-006 |
| FR-004 | Appointment Reminders | Must Have | FR-001 |
| FR-005 | Real-time Doctor Availability | Must Have | Doctor Schedules |
| FR-006 | Role-Based Access | Must Have | User Management |
| FR-007 | Reporting & Analytics | Should Have | FR-001, FR-002 |
| FR-008 | Audit Logs | Must Have | FR-002, FR-003 |

Each requirement listed above is described in more detail in the subsections below.

* + 1. **FR-001 Appointment Booking**
       1. Patients can book appointments via a web interface.
       2. Only available time slots are shown based on doctor availability.
       3. Overlapping or duplicate appointments are not allowed.
       4. Confirmation via SMS/email is sent after booking.
    2. **FR-002 Rescheduling & Cancellation**
       1. Patients can reschedule or cancel their appointments.
       2. Rescheduling is allowed only if done at least 24 hours in advance.
       3. System logs all changes with timestamps.
    3. **FR-003 Doctor Manual Override**
       1. Doctors can manually adjust their schedules.
       2. Overrides are logged in the audit trail.
    4. **FR-004 Appointment Reminders**
       1. SMS and email reminders are sent 24 hours and 1 hour before the appointment.
       2. Configurable based on user preference.
    5. **FR-005 Real-time Doctor Availability**
       1. The system shows available time slots based on doctor's working hours and existing bookings.
    6. **FR-006 Role-Based Access**
       1. **Admin:** Full access to scheduling, reporting, and system settings.
       2. **Doctor:** View/edit personal schedule, view patient appointments.
       3. **Patient:** Book/reschedule/cancel own appointments.
    7. **FR-007 Reporting & Analytics**
       1. Daily/weekly appointments report.
       2. No-show rates report.
       3. Peak booking hours report.
    8. **FR-008 Audit Logs**
       1. Every change to appointment status, user role updates, and manual overrides is logged with user, timestamp, and action.

1. **User Roles & Permissions**
2. **UI Behavior & Validations**
3. **Business Rules (from BRD)**
4. **Non-Functional Requirements**
5. **Assumptions & Dependencies**
6. **Appendices**

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**Appendix ‘A’**

**System Context Diagram**