

## 1. Introduction

The Hospital Management System (HMS) is designed to automate and manage hospital operations such as patient registration, appointment scheduling, medical records management, billing, inventory, and staff administration. The system aims to improve efficiency, accuracy, and accessibility of hospital services.

## 2. System Overview

The system will be used by administrators, doctors, patients, and hospital staff. It provides centralized access to hospital data through role-based authentication.

## 3. Stakeholders

Hospital Administrators

Doctors

Patients

Hospital Staff

System Administrators

## 4. User Types

Admin

Doctor

Patient

Staff

## 5. Functional Requirements

FR-01: The system shall allow patients to register and manage profiles.

FR-02: The system shall allow patients to book and cancel appointments.

FR-03: The system shall allow doctors to view assigned appointments.

FR-04: The system shall allow doctors to record diagnoses and treatment notes.

FR-05: The system shall manage patient medical records.

FR-06: The system shall manage prescriptions and medications.

FR-07: The system shall process billing and payments.

FR-08: The system shall manage hospital inventory.

FR-09: The system shall allow administrators to manage users and roles.

## 6. Non-Functional Requirements

Performance: Response time < 2 seconds

Security: Authentication required

Availability: 24/7 availability

Reliability: Regular backups

Usability: Easy to learn and use