# Hospital Appointment System

**System Overview**

The Hospital Appointment System will help manage patient appointments, and do simple operations for both receptionists and administrators.

**Problem Statement**

Without a proper system, manual booking processes can result in overlapping appointments, scheduling errors, and time conflicts, leading to patient dissatisfaction and operational delays. Receptionists need a reliable way to schedule appointments that align with doctors’ availability and specialties, while ensuring each session is appropriately timed.

The **Hospital Appointment System** aims to streamline this process by enabling receptionists to book appointments only during available time slots, based on the relevant doctor's specialty. Each patient session will have a fixed duration of one hour to maintain consistency. Additionally, receptionists will be able to manage appointment statuses by marking them as **"IN"** (checked-in), **"OUT"** (completed), or **"CANCELLED"** to track the patient's visit in real-time.

On the administrative side, the system will allow administrators to manage doctor profiles, including their specialties, working hours, and schedules. Administrators will also have control over staff management, including adjustments for holidays or special events, ensuring smooth coordination. Full access to all appointment and patient information will be provided to administrators, allowing them to oversee operations effectively and maintain accurate records.

This solution will reduce scheduling conflicts, improve staff coordination, and enhance the overall patient experience through efficient management and real-time information access.

For Receptionists:

1. Schedule Appointments:
   * Ability to book appointments for patients with available doctors.
   * Option to view and search for available time slots.
   * View Appointment Schedules:
     1. Access daily, weekly, or monthly schedules for all doctors.
     2. View patient details for upcoming appointments.
2. Check Patients In/Out/Cancel:
   * Mark patients as checked in when they arrive.
   * Update appointment status upon completion.

For Administrators:

1. Manage Doctors:
   * Add new doctors with their specialties and availability.
   * Edit or remove doctor profiles.
2. Manage Staff Schedules:
   * Set working hours and availability for doctors.
3. Access Patient Records:
   * View patient histories, including previous appointments and medical notes.
   * Manage patient information (add, edit, or remove).

For Doctor:

1. Add history to patient record