# Hospital Appointment System

**System Overview**

The Hospital Appointment System will help to manage patient appointments in a hospital or clinic and that an administrator can use to add new doctors to the staff, create new patient records, and manage staff schedules.

**Problem Statement**

The **Hospital Appointment System** is for receptionists to book appointments only during available time slots. 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.
   * Adjust schedules as needed for holidays or special events.
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

**Use cases need to complete**

1. Schedule Appointment

When a receptionist is logged into the system, he/she can see the appointments and selects the option to schedule a new appointment, they are presented with a form to enter the patient ID, doctor selection, and appointment date/time. After submitting the form, the system checks for available time slots and confirms the booking.

2. Check In/Out appointment

When a patient arrives for their appointment, the receptionist check in the patient and after a patient's appointment is completed, the receptionist checks out their appointment and save the appointment history. If patients request to cancel their appointment the receptionist would cancel the appointment.

3. Manage Doctors / Register Them

When an administrator is logged into the system and selects the option to manage doctors, they can add a new doctor or edit/remove an existing one by filling out a form with fields for doctor ID, name, specialty, and availability, with the system persisting the doctor’s information.

4. Manage Patients / Create Patient Record

When an administrator is logged into the system and selects the option to manage patients, they can create a new patient record or edit/remove an existing record by filling out a form with fields for patient ID, name, contact information, and medical history, and the system will persist the patient’s information.

5. Manage Staff Schedules

When an administrator is logged into the system and selects the option to manage staff schedules, they can choose a doctor to adjust their schedule and set or modify their working hours and availability, with the system saving the updated schedule.

6. Add Prescription

When a doctor is logged into the system after seeing a patient, they can select the option to add a prescription, search for the patient by name or ID, enter prescription details including medication, dosage, and instructions, and the system saves the prescription in the patient’s medical record.