

Hospital Management System

Models

1. Department

- name (CharField)
- location (CharField)

2. Doctor

- name (CharField)
- specialization (Select Key)
- phone (CharField)
- email (EmailField)
- department (ForeignKey)

3. Patient

- name (CharField)
- age (IntegerField)
- gender (CharField with choices: Male, Female, Other)
- phone (CharField)
- address (TextField)
- doctor (ForeignKey)

4. Appointment

- patient (ForeignKey → Patient)
- doctor (ForeignKey → Doctor)
- appointment_date (DateTimeField)
- status (CharField with choices: Pending, Completed, Cancelled)

Tasks

1. Implement **CRUD operations** for all models (Department, Doctor, Patient, Appointment).
2. **Relationship handling:**
 - Each department can have **many doctors**.
 - Each doctor can have **many patients**.
 - Each patient can book **many appointments** with a doctor.
3. Create pages to:
 - View all doctors under a department.
 - View all patients of a doctor.
 - View all appointments of a patient.
4. **Bonus:**
 - When a doctor is deleted, their patients and appointments should also be deleted (on_delete=CASCADE).
 - Display a doctor's profile showing their department, patients, and upcoming appointments.