

## **Hospital Appointment Booking System – A Web App for Scheduling Doctor Appointments**

The **Hospital Appointment Booking System** is a **web-based application** that allows patients to schedule doctor appointments efficiently. This project eliminates the need for **manual appointment scheduling** and provides a **seamless experience** for both doctors and patients.

Key features include:

- **User Registration & Patient Profiles** – Users can register, store medical history, and manage their profiles.
- **Doctor Directory & Specialization Search** – Patients can search for doctors by specialization, availability, and location.
- **Appointment Scheduling System** – Users can book, reschedule, or cancel appointments.
- **Automated Notifications & Reminders** – Email/SMS alerts for upcoming appointments.
- **Prescription & Medical History Management** – Doctors can store patient records securely.

The backend is developed using **Flask/Django with PostgreSQL/MySQL**, while the frontend uses **React.js/Vue.js**. **Role-based access control (RBAC)** ensures data security, with encryption techniques applied for sensitive medical information.

By **automating appointment scheduling**, this system improves **hospital efficiency, patient satisfaction, and overall healthcare service delivery**.