HOSPITAL BOOKING SYSTEM

Project Overview:

Hospital Booking Management is a web-based application with three main modules: Admin, Doctor, and Patient. The system aims to streamline the booking process between patients and doctors, making it efficient for both parties. The admin manages doctor approvals, patient bookings, and overall system functionality. Doctors can view their appointments and patient details, while patients can book appointments with doctors from different departments.

General Requirements:

- The system must be mobile-responsive, providing an optimal user experience on various devices.

- The system should have 1 admin, at least 2 doctors, 3 or 3+ patients per doctor, and a Minimum of 4 Departments like Cardiology. Pediatrics, Gynecology, and Orthopedics

User Registration:

- The registration form must have live form validation for fields like name, email, and password.
- Passwords must meet minimum security requirements (e.g., minimum length, special characters, numbers).
- Email addresses must be unique, and the system should display an error if the email is already registered.
- Upon successful registration, the user must receive a confirmation email to the user with the randomly generated **6-digit number** as a password with **Patient ID** and can later reset the password as needed.

User Login:

- Users must have the option to reset their passwords using a secure and user-friendly password reset process and it must have the proper form live validation as mentioned above in registration.

- Users should have the ability to update their profile information and should be able to reset their passwords securely.

Admin Features:

- Add, delete, and view doctors, patients, and departments

- The admin should have the ability to review and approve or disapprove doctor registrations as received as notification in the admin dashboard.

- Admin can effortlessly manage the list of doctors and departments, ensuring the database remains up-to-date and organized.

- Access to detailed patient information consulted per doctor allows the admin to oversee the appointment flow effectively.

- The admin can view patient booking details and provide approval or disapproval, ensuring a well-organized appointment schedule.

- The admin should have access to the status of each patient appointment, indicating whether the patient has been "consulted" or "not consulted" for the booked day.

- Each doctor can receive a maximum of five appointments per day. The system should enforce this limit to ensure balanced schedules and optimal time allocation for doctors, promoting efficient patient care.

Doctors Features

- Doctors should be able to complete their registration using the registration form, and a system-generated password will be sent to their provided email.

- If needed, doctors can reset their passwords through the reset function.

- The doctor's dashboard must have a clear overview of upcoming and current-day appointments.

- Instant patient appointments must be received on the doctor's dashboard as a notification.

- Patient personal details must be accessible from the doctor's dashboard.

Patient Features

- Patients must register with the system using personal information before they can proceed to book appointments.

- Appointment booking is exclusively available to registered patients, enhancing system security and accountability.

- A system-generated password, accompanied by a unique patient ID, must be sent to patients via email after the registration process.

- Password reset functionality is required for resetting the auto-generated password.

- The booking form must have, patient ID (Fetch Automatically), department selection, personal details, and desired appointment date.

- If the booking limit of five appointments per doctor has been exceeded, the system should proactively notify patients during the booking process. A notification will alert the patient that no slots are available and suggest the next available date for booking.