1. Admin Dashboard

I already have an existing Admin Dashboard built in CodeIgniter 4. Update it to include the following features without breaking the current functionality:

1. User Management

- Manage all users and roles (Doctor, Nurse, Lab Staff, Pharmacy Staff, Accountant, Receptionist, IT Staff).
- Add, edit, deactivate users.
- Assign roles and permissions per user.

2. System Settings & Logs

- Access system configuration and audit logs.
- Monitor overall activity in the hospital management system.

3. Assignments & Workflow

- Assign doctors, nurses, lab staff, pharmacy staff, and receptionist to patients or tasks.
- Monitor pending orders, appointments, and financial transactions.

Database

- Update or create tables as needed for users, roles, assignments, logs.
- Add migration files only for new or altered tables; do not remove existing data.

UI / Layout

- Keep the existing design.
- Add sections/buttons for assignments, role management, and system monitoring.

2. Doctor Dashboard

I already have an existing Doctor Dashboard built in CodeIgniter 4. Update it to include the following features without breaking the current functionality:

1. Patient List / Overview

- Display all active patients assigned to the doctor.
- Include patient name, age, gender, room/bed, status (admitted, outpatient, discharged), last visit date, and alerts (allergies, critical labs).
- Make it searchable and filterable.

2. Patient Medical Records (EMR)

- Enable viewing of past medical history, allergies, current medications, vital signs history, and lab/radiology results.

3. Doctor's Orders

- Allow creation of lab tests, radiology/imaging, medications, and procedures orders.
- Show status (Pending, In Progress, Completed) per order.

4. Lab / Pharmacy Integration

- Add notifications when lab results are ready or medications are prepared.
- Allow doctor to approve/reject orders if necessary.

5. Appointments & Schedule

- Show daily consultation schedule and upcoming appointments.
- Allow rescheduling or cancellation.

6. Notes / Prescriptions

- Add field for progress/consultation notes.
- Enable generation of prescriptions or referrals.

Database

- Update existing tables or add migration files as needed for patients, medical records, orders, labs, pharmacy, appointments, and notifications.
- Only add/alter what's needed; do not remove existing data.

UI / Layout

- Keep the existing design.

- Add sections/buttons for new features.
- Optional: dashboard charts for patient load, pending orders, lab trends.

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3. Nurse Dashboard

I already have an existing Nurse Dashboard built in CodeIgniter 4. Update it to include the following features without breaking the current functionality:

1. Assigned Orders

- Display all doctor orders assigned to the nurse.
- Include patient info, order type, priority, and status (Pending, In Progress, Completed).
- Make it searchable and filterable.

2. Patient Care Updates

- Update patient vitals, administer medications, perform procedures.
- Add progress notes visible to the doctor.

3. Notifications

- Receive alerts for new orders, critical patient updates, or lab results.
- Notify doctors when tasks are completed or if urgent attention is needed.

Database

- Update or create tables for nurse assignments, vitals, progress notes, notifications.
- Add migration files only for new or altered tables.

UI / Layout

- Keep the existing design.
- Add sections/buttons for assigned orders, patient updates, and notifications.

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4. Lab Staff Dashboard

I already have an existing Lab Staff Dashboard built in CodeIgniter 4. Update it to include the following features without breaking the current functionality:

1. Lab Orders

- Display pending lab tests requested by doctors.
- Include patient info, test type, priority, and status.
- Make it searchable and filterable.

2. Update Test Status

- Update status of lab tests (In Progress, Completed).
- Upload results to patient records.

3. Notifications

- Notify doctors when lab results are completed.

Database

- Update or create tables for lab orders, test results, and notifications.
- Add migration files only for new or altered tables.

UI / Layout

- Keep existing design.
- Add sections/buttons for pending tests, status updates, and notifications.

5. Pharmacy Staff Dashboard

I already have an existing Pharmacy Dashboard built in CodeIgniter 4. Update it to include the following features without breaking the current functionality:

1. Prescription Orders

- Display prescriptions/orders from doctors.
- Include patient info, medication, quantity, and status.
- Make it searchable and filterable.

2. Update Medication Status

- Mark medications as prepared, ready, or dispensed.
- Notify doctors and nurses when medications are ready.

Database

- Update or create tables for prescriptions, medication stock, and notifications.
- Add migration files only for new or altered tables.

UI / Layout

- Keep existing design.
- Add sections/buttons for prescription management and notifications.

6. Accountant / Finance Dashboard

I already have an existing Accountant Dashboard built in CodeIgniter 4. Update it to include the following features without breaking the current functionality:

1. Billing & Charges

- Generate charges for consultations, lab tests, procedures, and medications.
- Link charges automatically to doctor orders, lab results, and pharmacy requests.

2. Payments & Transactions

- Record payments and update pending invoices.
- Generate financial reports per patient or department.

Database

- Update or create tables for charges, payments, and invoices.
- Add migration files only for new or altered tables.

UI / Layout

- Keep existing design.
- Add sections/buttons for billing, payments, and reports.

7. Receptionist Dashboard

I already have an existing Receptionist Dashboard built in CodeIgniter 4. Update it to include the following features without breaking the current functionality:

1. Patient Registration

- Register new patients and update existing patient info.
- Include basic patient demographics and contact info.

2. Appointment Scheduling

- Schedule appointments and manage patient queues.
- Show doctor/nurse availability.
- Notify staff of patient arrivals.

Database

- Update or create tables for patient registration, appointments, and notifications.
- Add migration files only for new or altered tables.

UI / Layout

- Keep existing design.
- Add sections/buttons for registration, scheduling, and notifications.

8. IT Staff Dashboard

I already have an existing IT Staff Dashboard built in CodeIgniter 4. Update it to include the following features without breaking the current functionality:

1. System Monitoring

- Monitor connectivity and uptime for all modules.
- View logs, errors, and alerts across the system.

2. User Support

- Assist with user access, troubleshooting, and system issues.

3. Integration Checks

- Ensure workflows between roles are functioning properly (doctor → nurse → lab → pharmacy → accountant).

Database

- Update or create tables for system logs, error tracking, and support tickets.
- Add migration files only for new or altered tables.

UI / Layout

- Keep existing design.
- Add sections/buttons for monitoring, logs, and user support.