Eye Care Management System

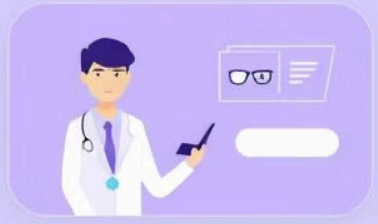
This presentation outlines the development of an Eye Care Management System designed to revolutionize patient flow and management within hospital eye units. We aim to digitalize key processes, ensuring seamless communication and reducing inefficiencies for patients, receptionists, doctors, and opticians.

Addressing Inefficiencies in Eye Care

Current Challenges

The existing appointment process is highly inefficient, leading to long queues and manual paperwork. Patients face delays in treatment, frustration, and the risk of losing important documents. This outdated system significantly impacts patient satisfaction and operational effectiveness.

Our objective is to develop a comprehensive Eye Care Management System to enhance patient flow. It will digitalize appointment scheduling, prescription tracking, and eyewear collection, fostering seamless communication among all stakeholders.



System Requirements

Patient Management

Register patients, schedule appointments, track medical history, and send reminders.

Doctor Module

Manage diagnoses, issue prescriptions, and update medical records.

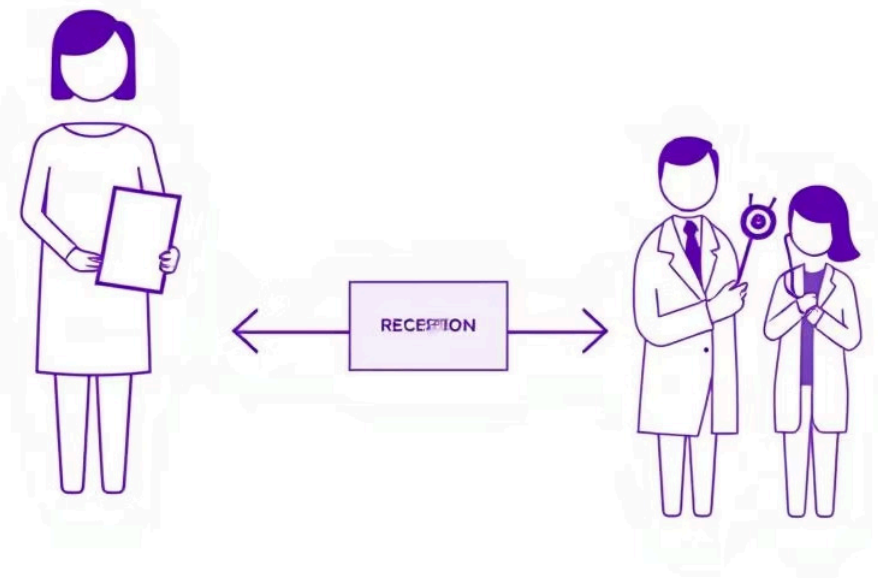
Receptionist Module

Handle admissions, scheduling, and payment tracking.

Optician Module

Receive digital prescriptions and manage eyewear production.

Non-functional requirements include robust security with role-based access, fast response times for all operations, and a user-friendly interface accessible from both mobile and desktop devices.



Key System Interactions

Patient Registration

Patients sign up, providing personal and medical history details.

Appointment Scheduling

Patients book appointments, receptionists manage schedules.

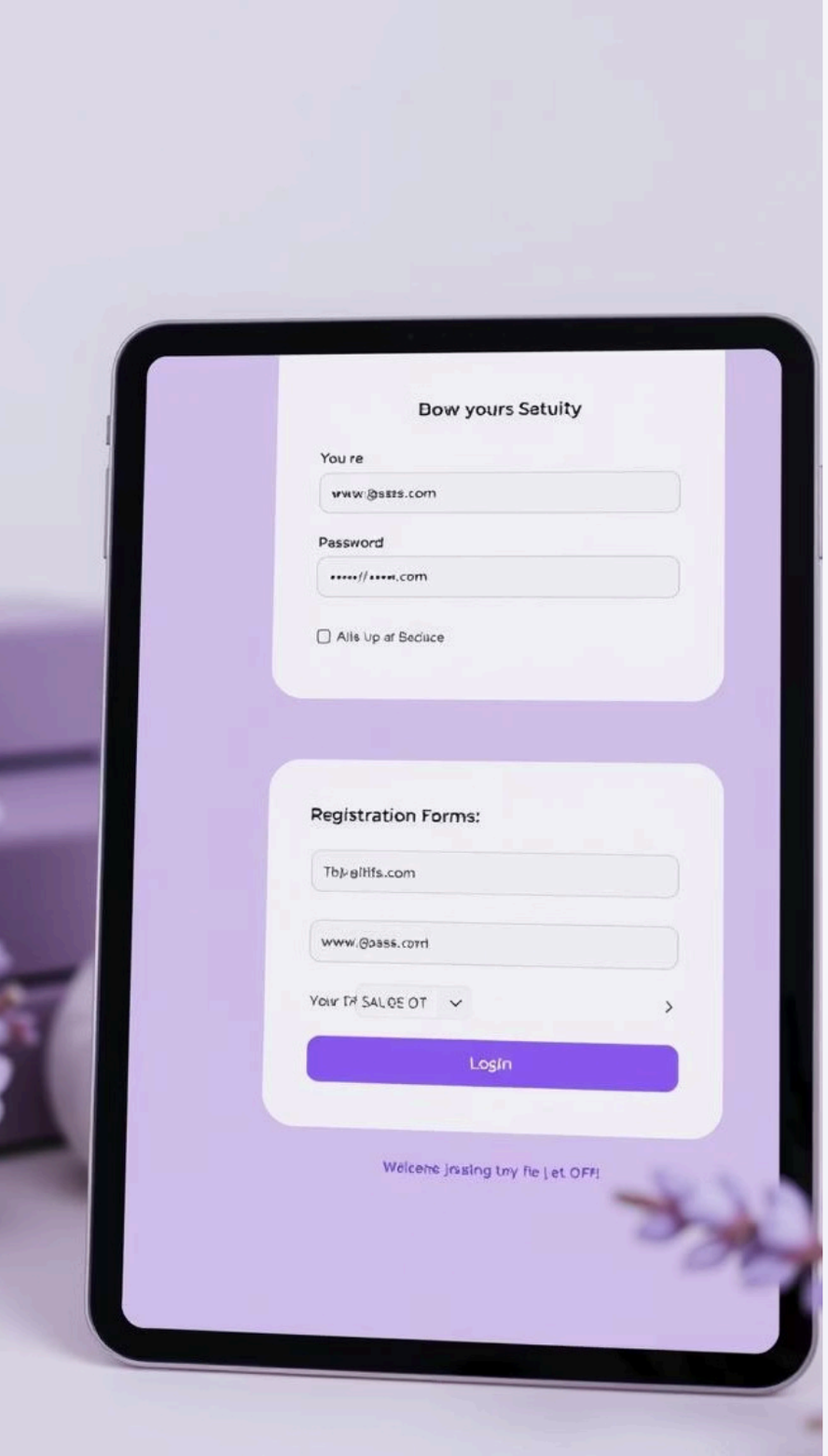
Doctor Consultation

Doctors diagnose, prescribe, and update records.

Eyewear Order

Opticians receive digital prescriptions and manage production.

The system also includes a notification system for reminders and queue management to reduce waiting times, enhancing overall patient experience.



User Authentication & Access

Sign Up Form

Collects personal, account, and brief medical history, including consent.

Sign In Form

Simple username/email and password fields with a "Forgot Password" link.

OTP Verification

Secure one-time password entry with expiration timer and resend option.

Forgot Password

Multi-step process for account identification, verification, and password reset.

These authentication forms ensure secure and streamlined access for all users, maintaining data privacy and system integrity.

Patient Dashboard Features

Home Page

Welcome, upcoming appointments, quick actions, notifications.

Appointment Booking

Service type, doctor, date picker, time slots, reason for visit.

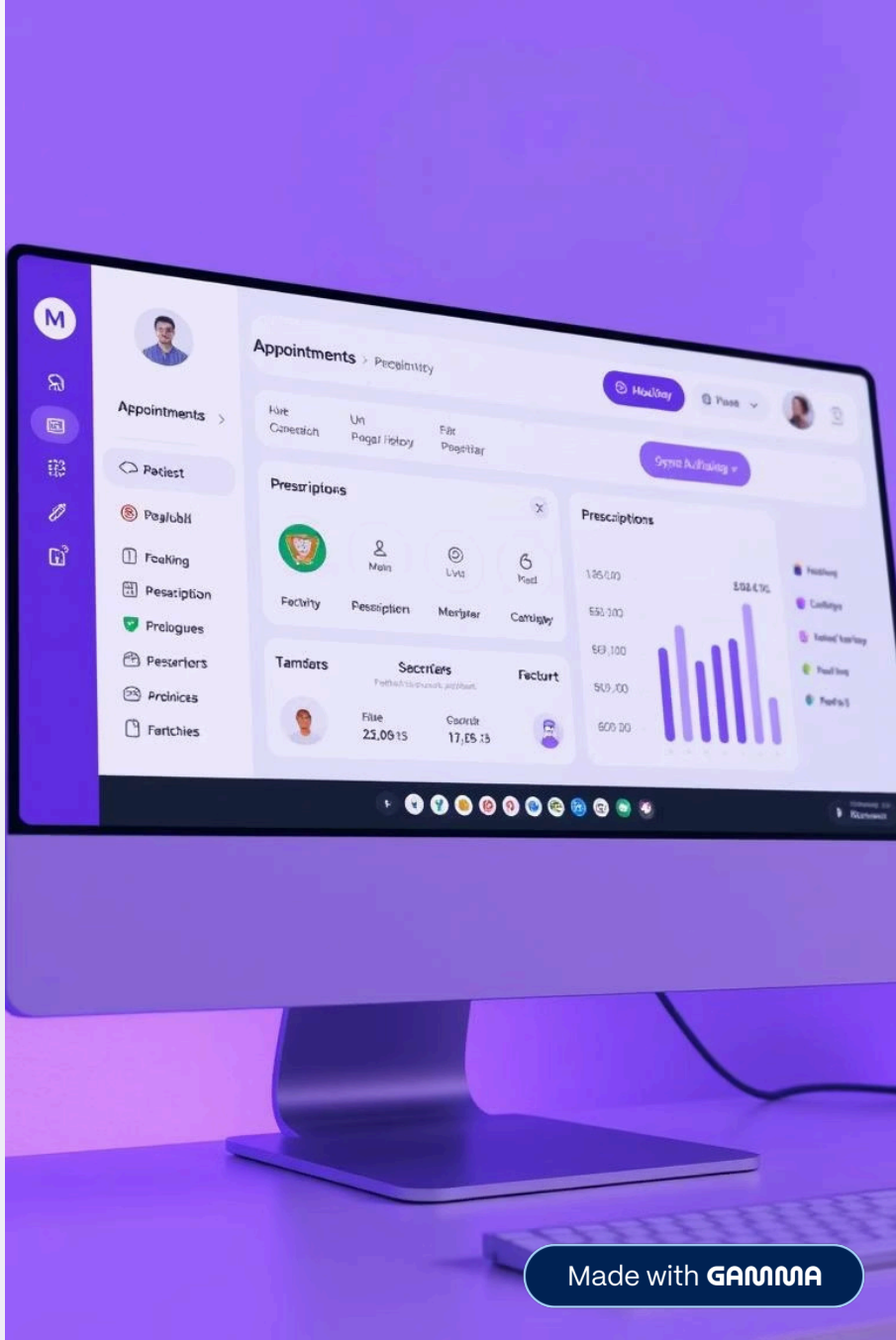
Medical History

Previous conditions, family history, medications, allergies, surgeries.

Prescription View

List of prescriptions, detailed view, status, renewal, download options.

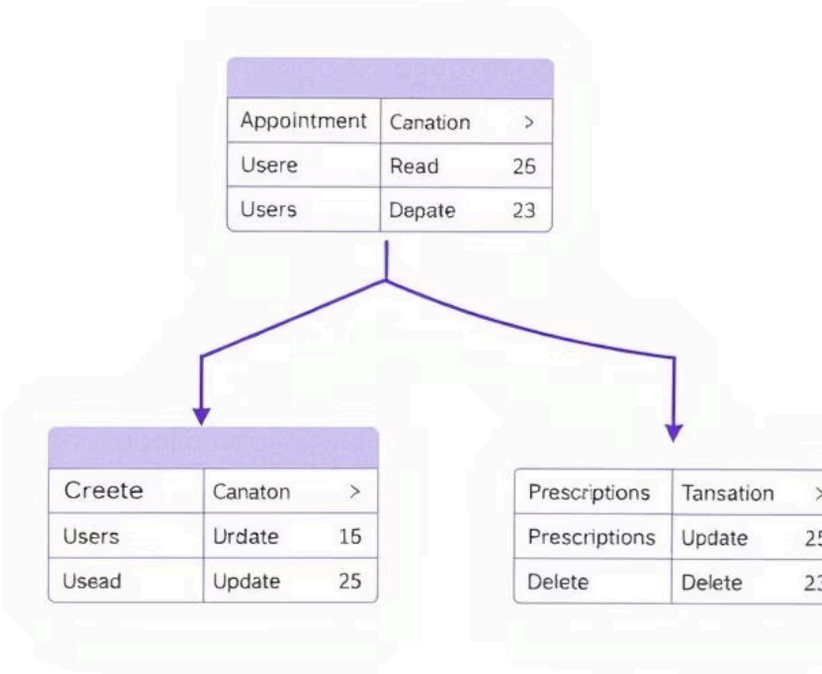
The patient dashboard also includes eyewear order tracking, payment history, and options to contact the optician, providing a comprehensive self-service portal.



Module-Specific Data Access (CRUD)

Patient	Appoint ments	Yes	Yes (own)	Yes (cancell ation)	No
Doctor	Medical History	Yes	Yes	Yes	No
Recepti onist	Patients	Yes	Yes	Yes	No
Optician	Eyewea rOrders	Yes	Yes	Yes	No
Admin	All Tables	Yes	Yes	Yes	Yes

This table summarizes the Create, Read, Update, and Delete (CRUD) permissions for each user type across key database tables, ensuring data integrity and role-based access control.



Development Team Division

Developer 1: Patient Module

Focuses on appointment booking, medical history, and prescription access.

Developer 2: Doctor Module

Handles examination recording, prescription creation, and appointment management.

Developer 3: Receptionist Module

Manages patient registration, appointment scheduling, and payment processing.

Developer 4: Optician Module

Concentrates on eyewear creation, production tracking, and collection management.

Developer 5: Admin + Integration

Oversees user management, reporting, and ensures seamless system-wide integration.

This division minimizes overlap and potential merge conflicts, allowing each developer to specialize in a specific user role and streamline the development process for the Eye Care Management System.