

Hospital Management System (HMS)

System Overview

HMS is a modern, Hospital Management System (HMS) designed to replace expensive, outdated enterprise healthcare software. It provides comprehensive tools for managing patients, doctors, appointments, billing, inventory, and administrative tasks.

Technology Stack

Frontend	Vue3 JS / Next JS, TypeScript, Tailwind CSS
Backend	FastAPI (Python 3.11+), Pydantic,
Database	MARIADB / PostgreSQL (production)
Authentication	JWT with bcrypt password hashing
State Management	React Server Components, Zustand, React Query
UI Components	Radix UI, Framer Motion, Recharts
Deployment	Docker, Nginx (reverse proxy)

High-Level Architecture

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