MEDSYNC

Intelligent Hospital Operations Platform

Transforming hospital management & patient engagement

🌟Introduction

- Modern hospitals struggle with fragmented data systems
- No predictive tools for patient surges or equipment demand
- Manual processes → slow decisions & higher costs

🧩 Problem Statement

- Lack of unified data view
- Inefficient patient management & resource allocation
- Hospitals operate in silos with no visibility into nearby hospital capacity during peak loads or emergencies

Our Solution: MedSync ERP

- Dynamic OPD Queue Management
- Live Bed Availability Dashboard
- Rule-Based Admission Workflow
- Inventory Usage Tracking
- Low-stock alerts
- Inter-Hospital Capacity Sharing (APIs)

tools to power the hospital

- **Admin**: manage staff & machines, track bed usage, see real-time analytics
- **Doctors**: patient info, prescriptions, e-sign surgical docs or lab reports
- **Nurses**: view patient vitals, log notes, schedule medicine reminders
- **Pharmacists**: review prescription requests, confirm availability, update stock
- **Receptionists**: add patients, assign doctors, manage appointments & beds

Tech & Architecture

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Frontend: Next.js

Backend/Database: Firebase (Firestore & Auth)

AI module (predictive analytics)

Why Choose Us?

Program 1

Data-assisted predictions using historical averages

Program 3

Empowers patients with full visibility over their care journey

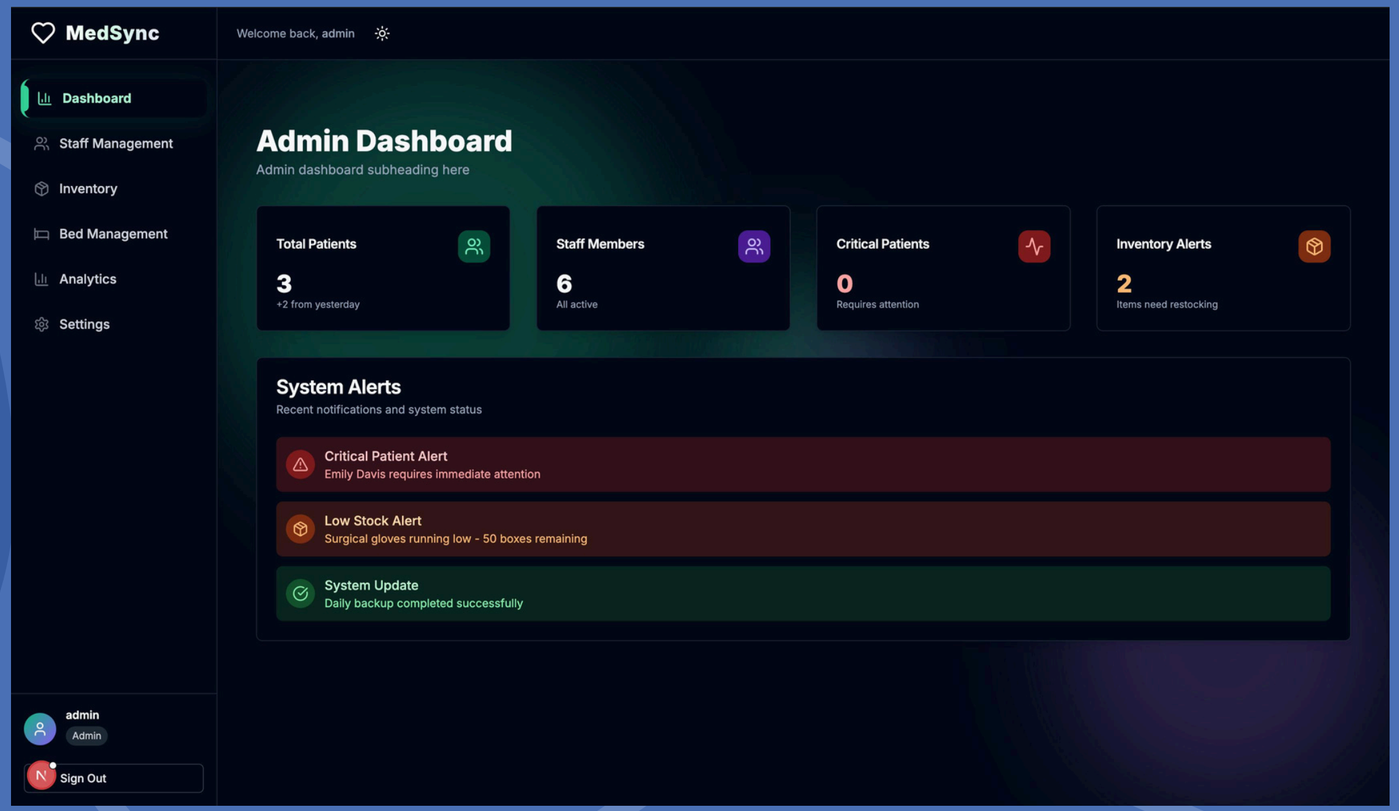
Program 2

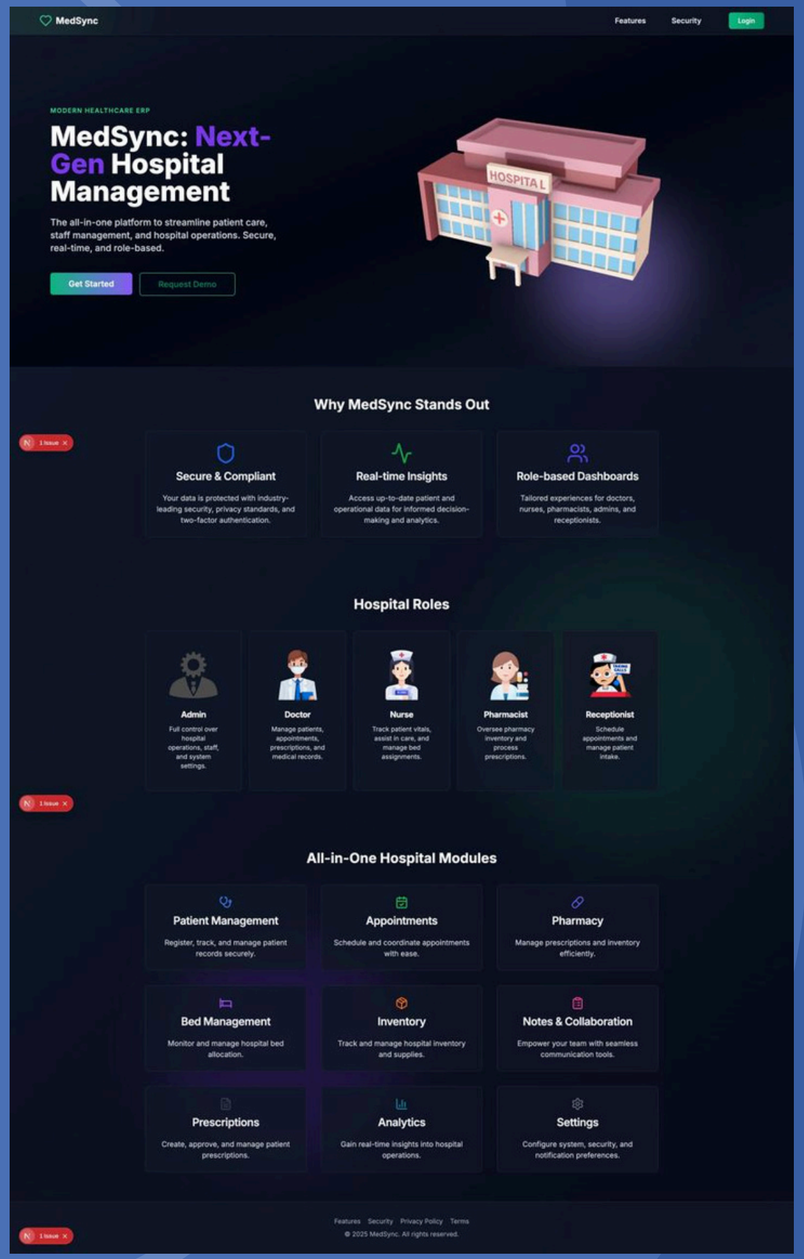
Real-time data prevents delays & reduces human errors

Program 4

Scalable & modular: fits clinics, hospitals, diagnostic centers

USER INTERFACE





Next phase: smarter care with AI

- Predict readmission risk & alert staff early
- Auto-assign doctors based on specialization & patient profile
- Chatbot for basic queries, symptom checking, appointment booking
- AI-driven alerts for low medicine stock or equipment issues

THANK YOU