Student Health Innovations

# Hospital Management System

Built by students using React technology



# Challenges in Hospitals

Traditional hospitals face **significant hurdles** affecting patient satisfaction and operational efficiency through outdated processes and communication barriers.

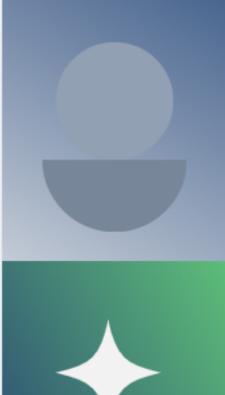
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Long queues lead to frustration for both patients and staff. 02

Delays in lab results hinder timely **medical decisions** and patient care. 03

Lack of digital communication results in inefficient interactions between patients and healthcare providers.





## Role-Based Digital Hospital Platform

Streamlining workflows and minimizing physical movement for enhanced healthcare efficiency and communication

Our platform revolutionizes hospital management through role-specific access and features.

By implementing a **role-based** approach, each user group—Admin, Doctor, Nurse, Lab Technician, and Patient—can efficiently access tailored dashboards, improving communication and reducing unnecessary **physical interactions** within the hospital environment.

### Key Functionalities of the Hospital Management System

Explore the essential features of our system:

- Easy appointment booking based on medical specialty
- Convenient digital prescriptions accessible to patients
- Fast lab report sharing through the platform
- Enhanced doctor-patient interaction for better care



### Role-Based Access Overview

Feature / Action	Admin	Doctor	Nurse	Lab Tech	Patient
ManageUsers	✓	×	×	×	×
Schedule Appointments	▼	₩.		×	•
View Patient Records	✓	✓	☑		✓
Update Patient Records	×	<b>V</b>		×	×
Upload Lab Results	×	×	×		ж
Access Lob Results	✓	☑	☑	₽	₽.
Prescribe Medication	×	✓	×	×	×
View Prescriptions	☑	✓	✓	×	₽.
Internal Messaging	☑	✓	✓	✓	✓
Generate Reports	<b>2</b>	✓	×	2	×



# **Patient Journey Timeline**



#### Appointment Booking

Patients can easily book appointments through the user-friendly digital platform.



Patients consult with doctors via a secure, digital communication channel.

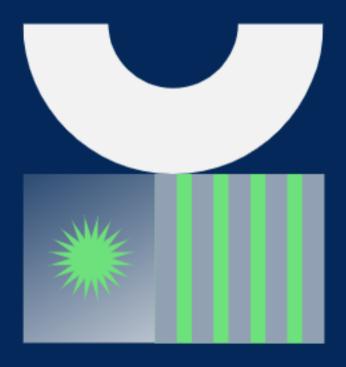
#### Treatment

After consultation, patients receive prescriptions and treatment plans digitally.

## Technologies Behind Our System

React, JSX, JavaScript, and essential development libraries empower our platform.

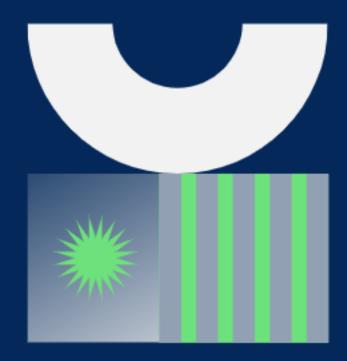
Our team utilized **React** for its componentbased architecture, **JSX** for efficient UI rendering, and **JavaScript** for robust functionality along with other relevant tools for optimal performance.



### Transforming Healthcare Through Technology

Reduced waiting time, enhanced communication, streamlined operations, scalability.

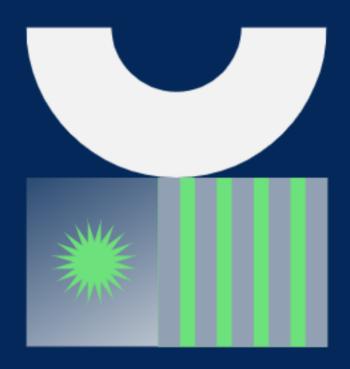
Our Hospital Management System significantly reduces waiting times while enabling better communication between patients and healthcare providers, enhancing overall operational efficiency and scalability for future growth.



### Future Plans for Hospital Management System

Exploring innovative features for enhanced patient care and operational efficiency in healthcare services.

Our vision includes implementing **telemedicine** for remote consultations, **payment integration** with M-Pesa, and **Al scheduling** to optimize patient appointments effectively.



# Get in Touch: We'd Love Your Support!

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