

HOSPITAL MANAGEMENT

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Abstract:

The **Hospital Management App** is a cloud-based solution designed to streamline hospital operations and improve the quality of healthcare delivery. The application provides an integrated platform for managing patient records, appointments, billing, inventory, and staff workflows. It ensures data accessibility and security, enabling real-time communication and collaboration among healthcare professionals and patients. Leveraging cloud technology, the app is scalable, cost-effective, and compliant with healthcare standards like HIPAA and GDPR. By automating routine tasks and providing actionable insights through analytics, the app enhances operational efficiency, reduces administrative burdens, and focuses on improving patient care.

Overview:

- Managing hospitals efficiently using technology
- Digitalization of patient records and prescriptions
- Enhancing security with two-factor authentication

why this project?

- Eliminating paperwork
- Quick access to patient history
- Efficient hospital administration

Technological stack:

- **Backend: Node.js, Express.js**
- **Frontend: html css**
- **Database: MongoDB**

System Modules:

1.Admin Module

- **Manage hospital data, doctor approvals, and reports**
- **Oversee patient and doctor activities**
- **Secure data storage and backup**

2. Doctor Module

- **Access patient history, prescriptions, and reports**
- **Generate and store digital prescriptions**
- **Communicate with patients**

3. patient Module

- **Register and manage personal details**
- **View medical history and prescriptions**
- **Book appointments**

Uniqueness & Key Features:

Digitalized Patient Records – No need for manual paperwork
Secure Access Control – Two-factor authentication for safety
Efficient Doctor-Patient Communication
Hospital Admin Oversight – Centralized management
Cloud Storage & Backup – Prevents data loss