



HOSPITAL MANAGEMENT SYSTEM PROJECT PROPOSAL



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Project Overview

Our project aims to develop a digital hospital management platform that streamlines patient care, appointment scheduling, and hospital operations. The system connects patients, doctors, and hospital staff through a centralized platform, improving efficiency, accuracy, and accessibility of healthcare services.

Problem Statement

Many hospitals still rely on manual or partially digital systems for managing patient records, appointments, and staff coordination. This leads to long waiting times, misplaced records, inefficient communication, and increased workload for hospital staff, negatively impacting patient experience and care quality.

Proposed Solution

The proposed solution is an integrated hospital management system that allows patients to register, book appointments, and access medical information online, while enabling doctors and administrators to manage schedules, patient records, and hospital resources efficiently through a secure digital platform.

Key Features

- Patient registration and secure login
- Online appointment booking and scheduling
- Electronic medical records management
- Doctor and staff management system
- Real-time notifications and appointment reminders
- Role-based access control for data security
- Admin dashboard for hospital operation

Feasibility Analysis

The project is feasible due to the availability of open-source technologies, healthcare APIs, and secure database systems. With modern development tools and proper security measures, the system can be implemented within the allocated time and resources while ensuring data privacy and reliability.

Innovation

The platform integrates smart scheduling and data-driven insights to reduce patient waiting times and optimize doctor availability. Future enhancements may include AI-assisted symptom analysis and automated patient flow management to further improve hospital efficiency.

Impact Assessment

The system enhances hospital efficiency by reducing administrative overhead, minimizing errors, and improving communication. Patients benefit from faster service and better access to healthcare, while hospitals achieve improved operational management and service quality.

Additional Information

Preliminary analysis indicates strong demand for digital healthcare solutions in hospitals. Feedback from patients and healthcare professionals highlights the need for centralized, secure, and user-friendly systems to manage hospital services. The platform can be expanded to include telemedicine, online payments, and pharmacy integration. add technologies used

Technologies Used

The hospital management website will be developed using simple and reliable web technologies. HTML will be used to design the structure of web pages, while CSS will be used to style the website and make it visually attractive. JavaScript will be used to add interactivity such as form validation, appointment booking, and notifications.

For data storage and management, MySQL will be used as the database to store patient details, appointment records, and staff information securely

- Frontend: HTML, CSS, JavaScript
- Backend: PHP
- Database: MySQL
- Tools: XAMPP, VS Code