

# Suraksha Health Connects

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**Abstract:- Our hospital management system is designed to streamline patient care processes by providing an integrated platform for managing patient information, medical records, and appointments. The system will be accessible to authorized personnel from any location with an internet connection, making it easy to access patient data and communicate with other staff members. The system will also incorporate advanced analytics and reporting features to help hospital administrators make data-driven decisions. The Hospital Management System is a scalable solution that can be customized to suit the needs of any hospital. The system can be deployed on premise or in the cloud, providing flexibility and ease of use. The system's modular architecture allows for easy integration with third-party applications, such as electronic health records and telemedicine platforms.**

**Keywords:-** Paperless, Digital Record, Database, PHP, MYSQL, Time, Process Flow, Management.

## I. INTRODUCTION

The undertaking Hospital Management gadget consists of registration of patients, storing their information into the gadget. The software program has the ability to present a completely unique identity notification for each affected person and shops the information of each affected person.

The Hospital Management System may be entered the use of a username and password. It is obtainable both with the aid of using an administrator. Only they are able to upload records into the database. The records may be retrieved easily. The interface may be very user-friendly. The records are nicely included for non-public use and makes the records processing very fast. Hospital Management System is powerful, flexible, and smooth to apply and is designed and evolved to supply actual potential advantages to hospitals.

Hospital Management System is designed for small scale hospitals or clinics, to cowl an extensive variety of health facility management and control tactics. It is an incorporated stop-to-stop Hospital Management System that gives applicable records throughout the health facility to guide powerful selection making for affected person care, health facility management and important monetary accounting, in an unbroken flow.

Hospital Management System is a software program product suite designed to enhance the high-satisfactory and control of health facility control within side the regions of scientific method evaluation and activity-primarily based totally costing. Hospital Management System allows you to increase your agency and enhance its effectiveness and high-satisfactory of work. Managing the important thing tactics correctly is important to the achievement of the health facility allows you to manipulate your tactics.

## II. LITERATURE SURVEY

A literature survey on Hospital Management System project reveals that it is an essential tool for modern-day hospitals. Hospital Management System (HMS) is an integrated information system that provides a range of services such as scheduling, medical records management, and others. The purpose of the system is to improve the efficiency of hospital operations, reduce errors and provide better quality of care to Patients. This section presents a literature review of some relevant works on Hospital Management System project.

Chakraborty (2019) proposed a Hospital Management System that integrates various modules such as patient registration, doctor appointments, prescription management, billing, and others. The system also provides a centralized database that enables doctors and nurses to access patient records at any time. The authors reported that the system improved the efficiency of hospital operations and reduced the waiting time for patients.

## III. IDENTIFY, RESEARCH AND COLLECT IDEA

**Electronic Health Records (EHR) Management System:** Develop a web-based EHR system that allows healthcare providers to store, manage and share patient health information. The system should include features such as patient demographics, medical history, laboratory results, radiology reports, and other clinical data.

**Appointment Scheduling and Reminders System:** Develop an appointment scheduling system that allows patients to book appointments online, receive appointment reminders via email or SMS, and enables healthcare providers to manage their schedules efficiently. The system should also allow for rescheduling or cancelling appointments.

Pharmacy Management System: Develop a pharmacy management system that allows pharmacists to manage medication inventory, process prescription orders, and generate billing reports. The system should also include drug interactions alerts and patient medication history.

Inventory Management System: Develop an inventory management system that allows hospitals to track the stock of medical supplies, manage orders, and automate the ordering process. The system should also include an expiration date alert system.

Data Analytics and Reporting System: A data analytics and reporting system would help hospitals analyze patient data and identify trends and patterns. It would enable hospital administrators to make data-driven decisions, improve patient outcomes, and optimize operational efficiency.

Patient Management System: Develop a system that can manage patient admissions, discharge, and transfers. The system should be able to track the patient's medical history, diagnosis, and treatment plans.

Telemedicine System: Create a system that allows patients to consult with doctors and other healthcare providers remotely. The system should be able to facilitate video consultations, prescription refills, and medical advice.

#### IV. IMPROVEMENTS AS PER REVIEWER COMMENTS

User Interface (UI) and User Experience (UX): Reviewers may suggest improvements to the UI and UX of the system to make it more user-friendly and intuitive. The system should have a clear and consistent design that is easy to navigate, with clear labeling and appropriate use of colors, icons, and graphics. The system should also be responsive and accessible on different devices and platforms.

Comparison with existing system is done by us as per reviewer comments. Some features are added such as massaging system and video conferencing for telemedicine system.

Appointment approval system added. Patient’s short listing on basis of token number is added in system. New doctors document verification for account creation is added into admin panel so that after reviewing and verification by admin a doctor gets access to account.

#### V. IMPLIMENTATIONS

As we go through implementation part for backend technology PHP, MYSQL is used for database and for frontend technology HTML, CSS, JAVASCRIPT, jQuery is used. Frontend contains login forms and dashboards for admin, doctor, and user. Backend contains the database and flow of the systems also comes with database.

Here are some snapshots of the system:

- Firstly, home screen that contains the introduction for system.

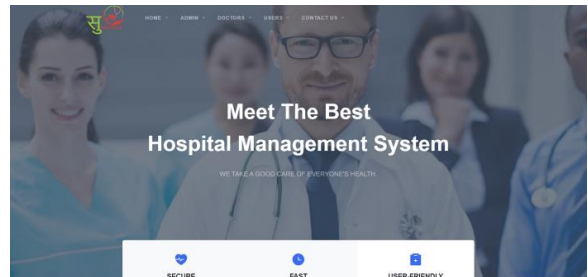


Fig 1: Home Screen

- Admin control center from where admin can handle all the operations.

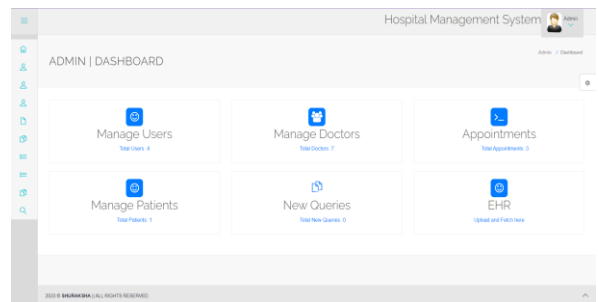


Fig 2: Admin Dashboard

- Doctor control center from where doctor can handle all the operation regarding appointments and EHR.

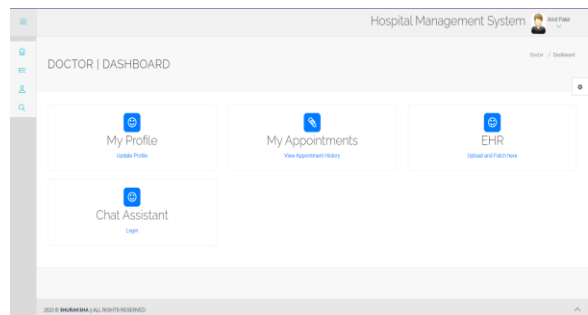


Fig 3: Doctor Dashboard

- User control center from where an user can schedule appointment and upload and fetch there Electronic Health Reports.

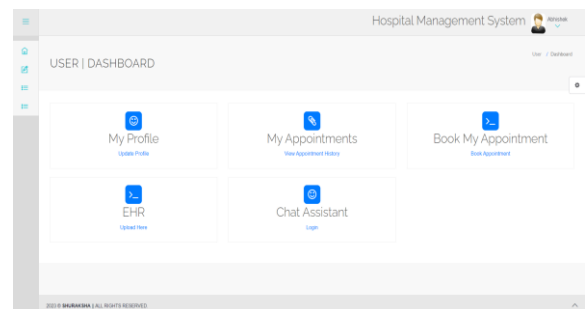
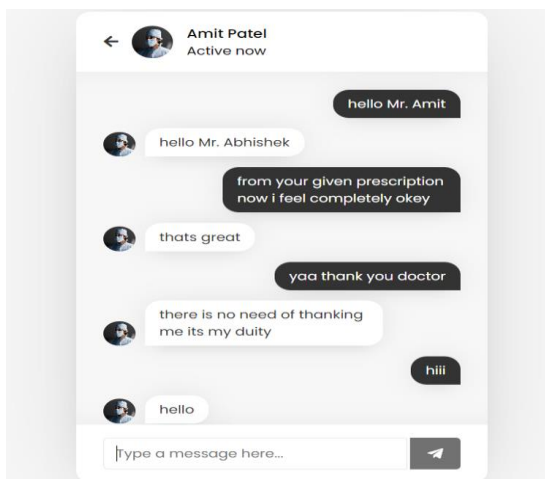


Fig 4: User Dashboard

- User can book appointment by using this form which includes doctor fees, Scheduling time slots and doctor specialization for which a user want to take appointment.

**Fig 5: Appointment Booking Panel**

- Chatapp for telemedicine system from where user can take consultation from doctor virtually.



**Fig 6: Chatapp screen**

## VI. CONCLUSION

Since we're coming into info of the sufferers electronically in the "Hospital Management System", records might be secured. Using this software we will retrieve patient's records with a unmarried click. Thus processing data might be faster. It ensures correct renovation of Patient info. It effortlessly reduces the book maintaining challenge and for this reason reduces the human attempt and will increase accuracy speed.

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