

Project Title: Centralized Hospital Management System Using MySQL

Group: N/A

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Introduction:

The proposed project aims to develop a centralized Hospital Management System (HMS) using MySQL that will revolutionize the way patient information is managed across multiple hospitals. With the advancement of technology, the need for efficient and secure patient data sharing among medical professionals has become crucial. Our project seeks to address this challenge by creating a robust system that allows doctors to access patient history and prescribe treatments seamlessly.

Objectives of the Project:

- Develop a centralized database system to store patient information from various hospitals.
- Enable doctors to access patient medical history and prescribe medications electronically.
- Implement a secure authentication and authorization mechanism for user access.
- Provide an intuitive user interface for doctors to interact with patient records.

Tools Needed (Software):

- UML Tool – Draw.io
- MySQL Database Management System.
- Programming Languages: SQL, possibly PHP, HTML, CSS.
- Integrated Development Environment (IDE).

Features of the Project:

- Centralized Database: Patients' information from multiple hospitals stored in a central MySQL database.
- Secure Access: Role-based (Patients, Doctors, Hospital, Diagnostic Center, and Central Admin) authentication to ensure authorized access to patient records.
- Patient History: Doctors can view medical history, previous prescriptions, and treatments, test reports, and a short biography.
- Prescription Management: Doctors can prescribe medications and treatments electronically.
- User-friendly Interface:
 - Doctor: Intuitive interface for doctors to search, view, and update patient records.
 - Patient: Another interface for patients to view their own history, medicine price, update contact details, search doctor details with reviews, they also can review doctors, book appointments etc.
 - Hospital: A hospital can add consultation hours for doctors who work there. Also, can check upcoming appointment List.
 - Diagnostic Center: This interface for Diagnostic Center to claim test given by doctors and can also create tests for patients and provide reports electronically.
 - Admin: Admin needs to approve all accounts except patient. Admin can view and delete activity data related to users.

Conclusion:

The proposed Centralized Hospital Management System project holds immense potential to enhance healthcare efficiency by providing doctors with quick and secure access to patient data. By utilizing the power of MySQL, our system will contribute to better patient care, streamlined operations, and improved collaboration among medical professionals. We are excited to embark on this project and believe it will make a significant impact on the healthcare industry.