

PROJECT PROPOSAL

HOSPITAL MANAGEMENT SYSTEM



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ABSTRACT

A hospital management information system (HMIS) is an element of health informatics that focuses mainly on the administration needs of hospitals. In many implementations, this is a comprehensive, integrated information system designed to manage all the aspects of a hospital. One of the most important issues is health care services. Hospital management information system (HMIS) is a province-wide initiative designed to improve access to patient information through a central electronic information system. HIS goal is to streamline patient information flow and its accessibility for doctors and other health care providers. These changes in service will improve patient care quality and patient safety over time. The patient carries system record patient information, patient laboratory test results, and patient doctor information. Doctors can access easily person information, test results, and previous prescriptions. Patient schedule organization and early warning systems can be provided by related systems.

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Project Proposal for Hospital Management System

Introduction:

In the present era of globalization and advanced technology efficient record keeping cannot be overemphasized. Imagine the scenario when the manual processes and manual modes of instruction get replaced with electronic systems. One of such replacement can be done in the area of patient's database management system within a hospital. Developing patient database management system software would benefit the hospital management who can have effortless access to the data securely and more easily. Hospitals are not excluded in record keeping. The records kept include patient data, which help to maintain patient's medical records. The medical records must have correctly all of the patient medical history. Physicians must maintain flawless records, because this document serves a number of purposes. It serves as a communication tool. As an important source of patient information. Well-kept records usually reflect the level of care given to a patient by the physician. Therefore medical records can be used as an evaluation tool. The more complete the record, the better they will serve the physician and the patient in the event of any action. Patient's identity which includes the patient's first name, last name, sex, age, address, etc.

Objectives:

Hospital Information Systems provide a common source of information about a patient's health history. The system have to keep data in secure place and controls who can reach the data in certain circumstances. These systems enhance the ability of health care professionals to coordinate care by providing a patient's health information and visit history at the place and time that it is needed. Patient's laboratory test information. HIS provide internal and external communication among health care providers. The HIS may control organizations, which is Hospital in these case, official documentations, financial situation reports, personal data, utilities and stock amounts, also keeps in secure place patients information, patients medical history, prescriptions, operations and laboratory test results. The HIS may protect organizations, handwriting error, overstock problems, conflict of scheduling personnel, and official documentation errors like tax preparations errors.

Purpose:

- The Software is for the automation of Hospital Management.

- It maintains two levels of users:
 - Administrator Level
 - User Level
- The Software includes:
 - Maintaining Patient details.
 - Providing Prescription, Precautions and Diet advice.
 - Providing and maintaining all kinds of tests for a patient.
 - Billing and Report generation.

Scope:

The HMS for Hospital's is an application running in Windows environment. The clients of the application are the receptionists, doctors, nurses, medical store attendants and the system administrator. This application contains login form, patient registration, doctor registration. Hospital Management application allow patients to edit their information like patient name, contact number, address, disease from which he is suffering from etc. It can be used in any Hospital, Clinic, Dispensary or Pathology labs for maintaining patient details and their test results.

Hospital Management System Entities and their attributes:

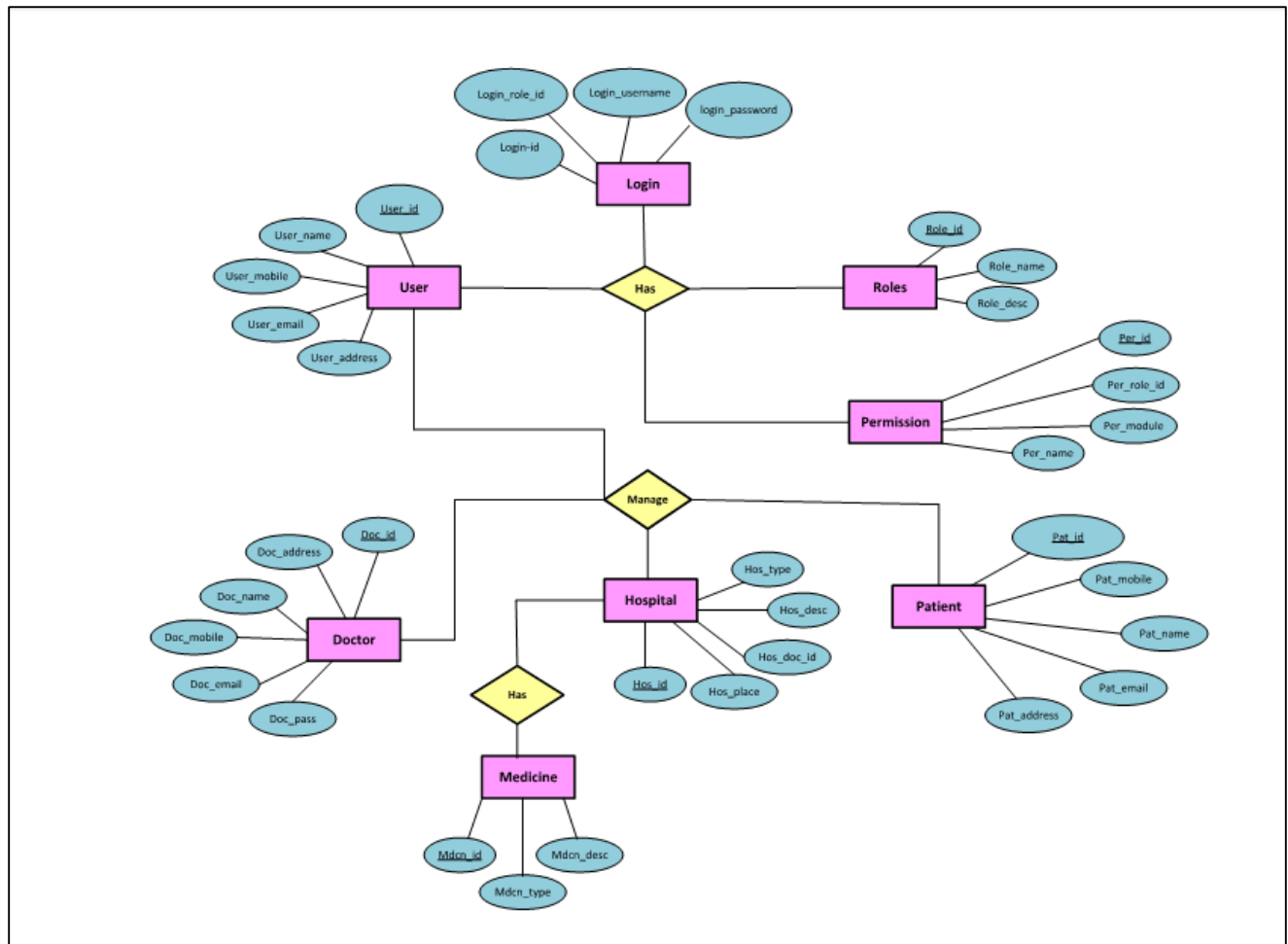
- **Hospitals Entity:** Attributes of hospitals are hos_id, hos_place, hos_doctor_id, hos_type and hos_desc.
- **Patient Entity:** Attributes of Patient are pat_id, pat_name, pat_mobile, pat_email, and pat_addresss.
- **Doctors Entity:** Attributes of Doctors are doc_id, doc_name, doc_mobile, doc_email, doc_password and doc_address.
- **User Entity:** Attributes of User are user_id, user_name, user_mobile, user_email, and user_address.
- **Login Entity:** Attributes of Login are login_id, login_username, login_role_id and login_password.
- **Medicines Entity:** Attributes of Medicines are med_id, med_desc and medi_type.
- **Roles Entity:** Attributes of Roles are role_id, role_name and role_desc.

- **Permission Entity:** Attributes of Permission are Per_id, Per_role_id, Per_module, and Per_name.

Description of Hospital Management Database:

Each entity contains primary key and unique keys. The entity Doctors has binded with Hospitals, Patient entities with foreign key. There is one to one and one to many relationships available between medicines hospitals. All the entities are normalized and reduce duplicity of records.

Draft ER – Diagram:



Schema Diagram: