

Patient Management System

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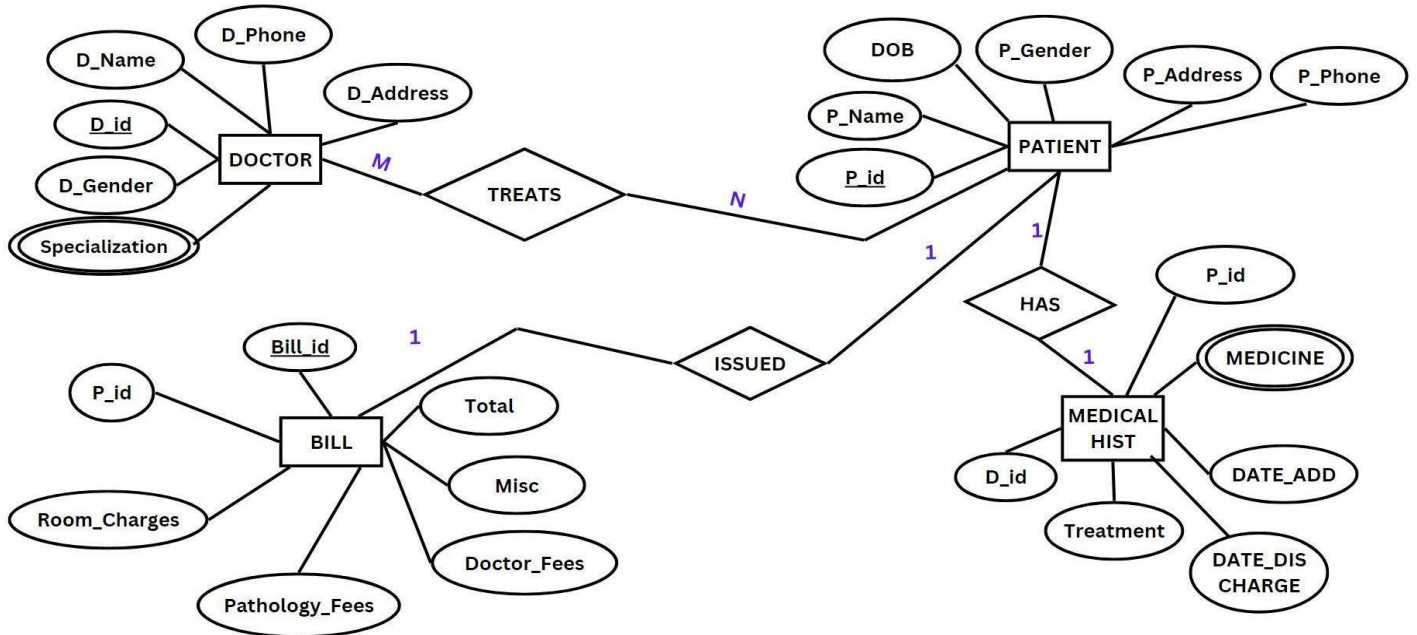
Introduction

The “Patient Management System” is aimed to develop to maintain everyday state of admission/discharge of patients, list of patients, report generation, treatment details, billing and etc.

The objective behind this is to computerize all the information regarding patients, scheduling the services of specialized doctors and emergencies properly such that all the facilities provided by the hospital are utilized fully, make the functioning efficient and effective enough such that it benefits the patients as well as the hospital, keeping the details of patient up to date and if the medical store issues any medicine to the patients then a track of all the bills including any other charges will be kept for the respective patient.

Project Design

ER Diagram



Database Schema

Patient → (P_id, P_name, dob, P_gender, P_Address, P_phone)

Doctor → (D_id, D_name, D_gender, D_address, D_phone, Specialization)

MedHist → (Treatment, Medicine, Date_add, Date_discharge, P_id, D_id)

Bill → (B_id, Room_charges, Pathology_fess, Doctor_Fees, Misc, Total, , P_id)

Implementation

1. Database Schema

The Patients table stores information about the patients, including their ID, name, age, address, and contact number. The Doctors table stores information about the doctors, including their ID, name, specialization, and contact number. The Medical_History table stores information about the patients' medical history, including the doctor who provided the treatment, the date of the visit, the diagnosis, and the treatment given. The Bills table stores information about the bills generated for the patient, including the bill amount and the date of service.

2. Database Setup

To set up the database, the following steps can be taken:

Create a new database in the DBMS.

Create tables using the schema defined above.

Create indexes on the primary and foreign keys to optimize queries.

3. Data Entry and Update

To enter and update patient data, doctor data, and medical history, the following forms can be created:

Patient Form: This form allows the admin user to enter and update patient data, including their name, age, address, and contact number.

Doctor Form: This form allows the admin user to enter and update doctor data, including their name, specialization, and contact number.

Medical History Form: This form allows the admin user to enter and update the patient's medical history, including the doctor who provided the treatment, the date of the visit, the diagnosis, and the treatment given.

4. Bill Calculation:

To calculate the bill for the patient, the following steps can be taken:

Retrieve the patient's medical history from the Medical_History table.

Calculate the total bill amount based on the treatment given.

Insert the bill amount and the date of service into the Bills table.

5. Security Features:

To implement security features, the following steps can be taken:

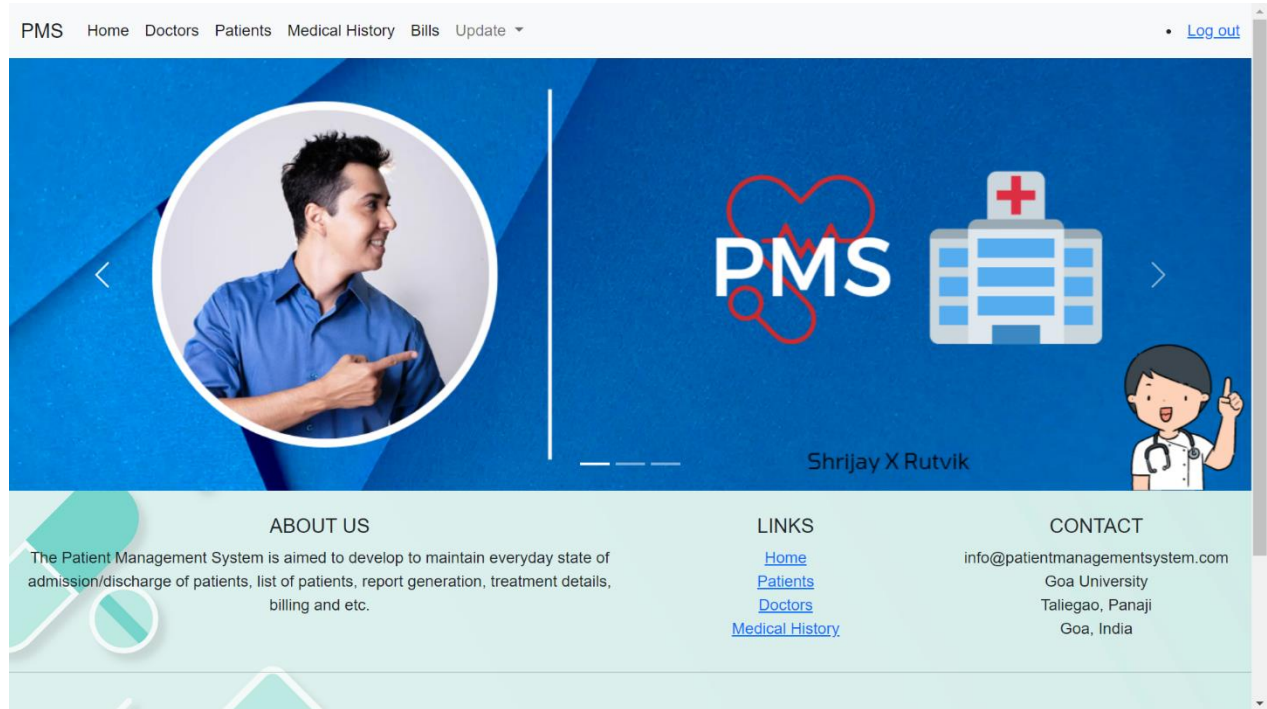
Create an admin user account with a strong password.

Grant the admin user the necessary permissions to add, update, and delete data in the database.

Restrict access to sensitive data, such as patient medical history, to the admin user only.

Snapshots

Home Page



Patient Registration Page

The screenshot shows the Patient Registration Form. The form is titled 'Patient Registration Form' and includes fields for Name, Date of Birth (with a date picker), Gender (radio buttons for Male and Female), Email, Phone Number, and Address. There are 'Submit' and 'Reset' buttons at the bottom. The background features medical icons like a syringe, stethoscope, and heart. Below the form is a table with patient data.

PMS Home

Patient Registration Form

Name:

Date of Birth:

Gender: ☐ Male ☐ Female

Email:

Phone Number:

Address:

Patient ID	Name	DOB	Gender	Address	Phone
1	Salih Sawant	2000-12-11	male	Vasco	7696671212
2	Harjan Nulk	1992-06-12	male	Margao	9012075421

Doctor Registration Page

PMS Home

Doctor Registration Form

Name:

Date of Birth:

Gender: ☐ Male ☐ Female

Specialisation:

Phone Number:

Address:

Doctor ID	Name	DOB	Gender	Address	Specialization	Phone
1	Sneharsh Kerkar	1992-05-10	male	Goa	Cardiologist	8976541209
2	Vijay Densai	1985-02-01	male	Panaji	Physiotherapist	9912620364

Medical History

PMS Home

Medical History

Doctor ID:

Patient ID:

Date of Admission:

Date of Discharge:

Medicines:

Treatment:

The record was inserted successfully.

Doctor ID	Patient ID	Date of Admission	Date of Discharge	Medicines	Treatment
1	1	2018-03-11	2018-04-12	Nitroglycerin, Morphine, Aspirin	Cardiac CT or MRI
1	2	2008-02-10	2008-03-15	Pain Killers	Rib Fracture

Billing Page

PMS Home

Bill Details

Bill ID:

Patient ID:

Pathology Fees:

Room Fees:

Misc:


The record was inserted successfully.


Bill ID	Patient ID	Pathology Fees	Room Fees	Miscellaneous	Total
1	1	250	1000	150	1400
2	2	500	1500	150	2150


Updating Options


PMS Home Doctors Patients Medical History Bills Update ▾ [Log out](#)


We perform **complex card** procedures including:


 **Coronary Artery Angiography (CAG)**


 **Percutaneous Transluminal Coronary Angioplasty (PTCA)**


 **Aortic Aneurysm Surgery**

 **Intravascular Lithotripsy (IVL)**


 **Coronary Artery Bypass Graft (CABG)**

 **Valve Replacement**

 **Pacemaker Implantation**

 **Peripheral Angiography**

0832 6632500



ABOUT US

The Patient Management System is aimed to develop to maintain everyday state of admission/discharge of patients, list of patients, report generation, treatment details, billing and etc.

LINKS

[Home](#)
[Patients](#)
[Doctors](#)
[Medical History](#)

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Conclusion

In conclusion, the Patient Management System is a vital tool for medical professionals, and its effective application can result in better patient care and more efficient medical procedures. The project report is an invaluable tool for healthcare providers and system developers since it offers a thorough overview of the system's capabilities and prerequisites for its implementation.

References

- <https://docs.ccsu.edu/curriculumsheets/ChadTest.pdf>
- <https://www.codewithharry.com/tutorial/php/>
- <https://www.w3schools.com>