Patient Management System

Team Members:
2247 - Rutvik Sawant
2248 - Shrijay Gauns

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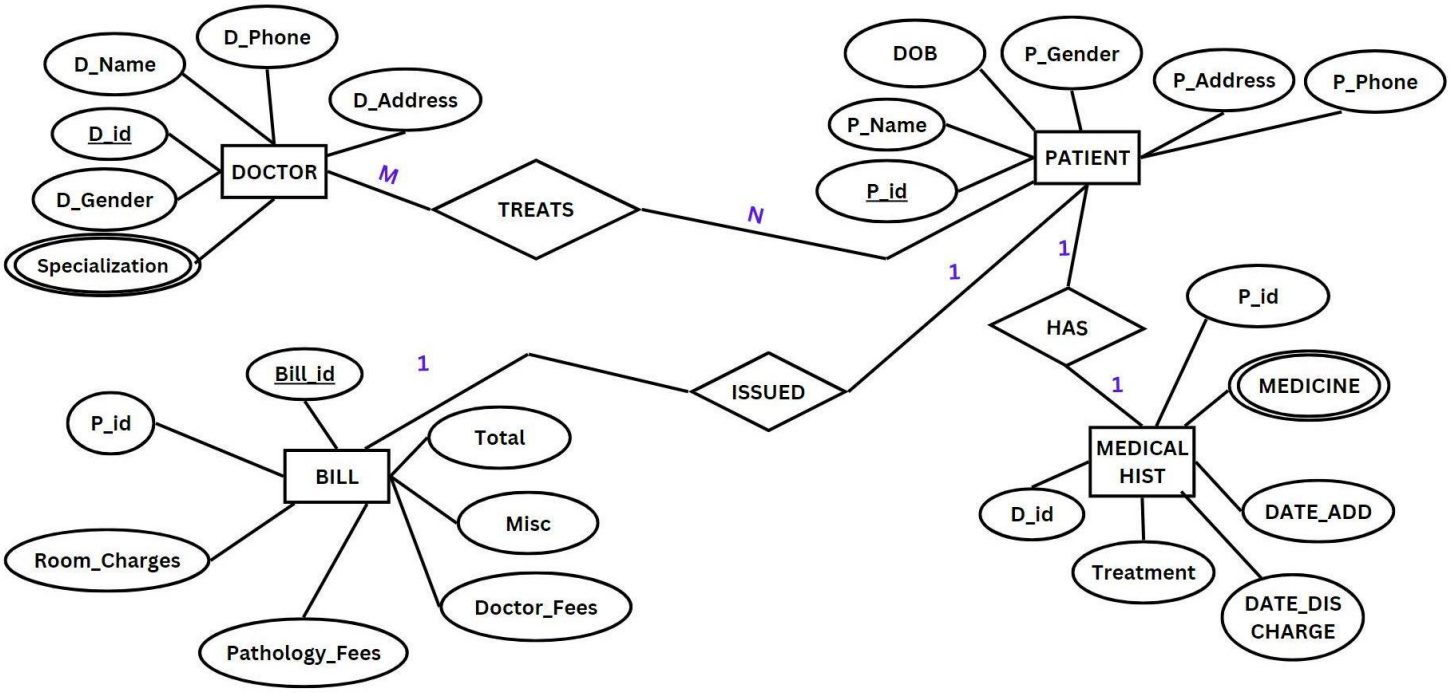
Introduction

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:

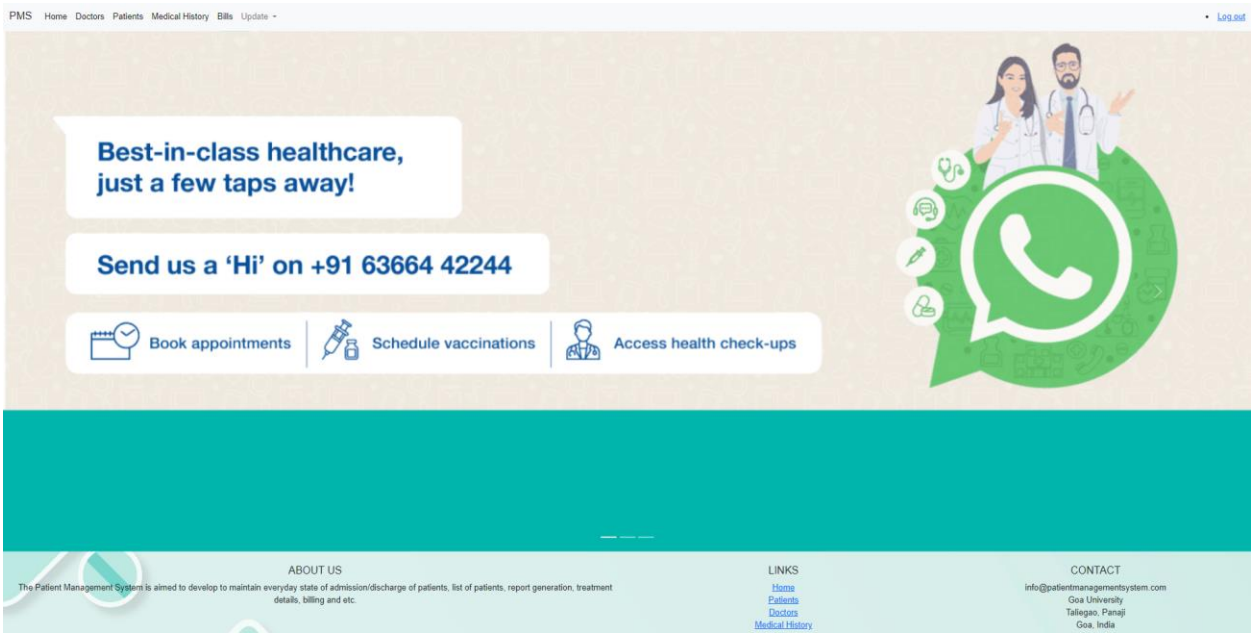
   Retrieve the patient's medical history from the Medical_History table.
   Calculate the total bill amount based on the treatment given.
   Insert the bill amount and the date of service into the Bills table.

5. **Security Features:**
   To implement security features, the following steps can be taken:

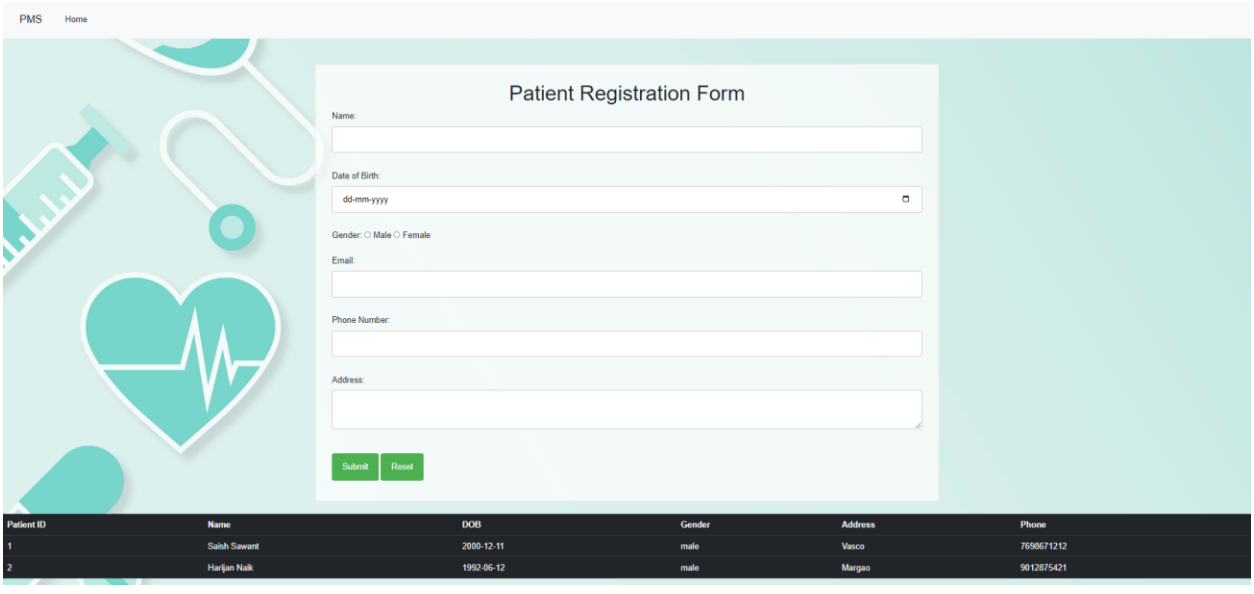
   Create an admin user account with a strong password.
   Grant the admin user the necessary permissions to add, update, and delete data in the database.
   Restrict access to sensitive data, such as patient medical history, to the admin user only.

Snapshots

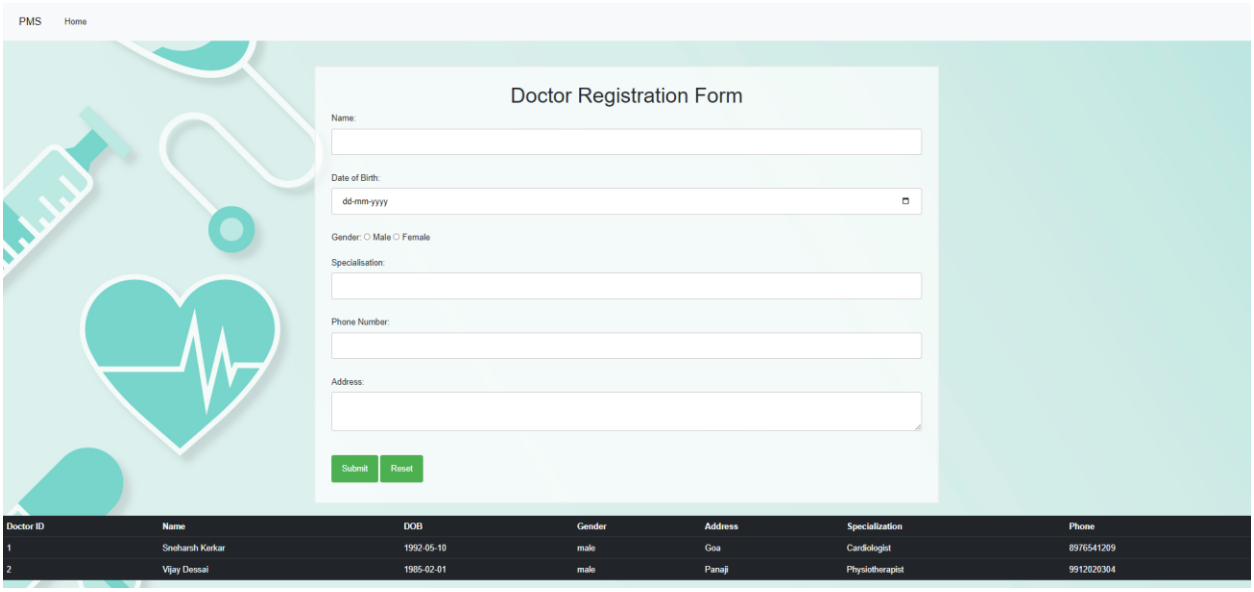
Home Page



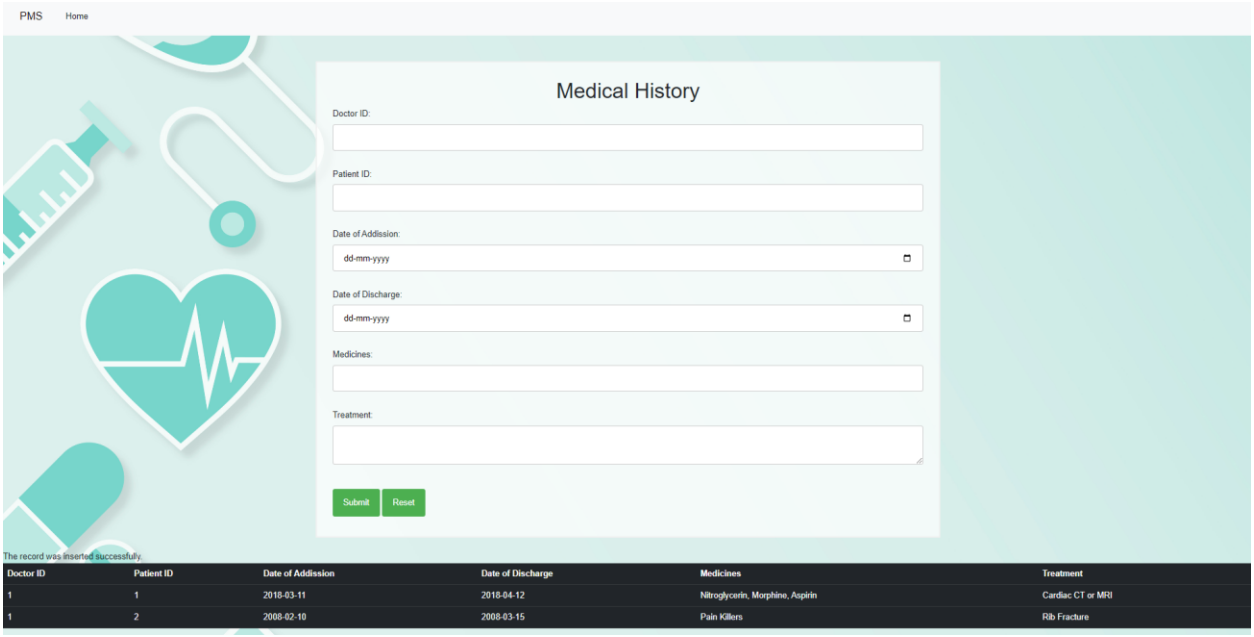
Patient Registration Page



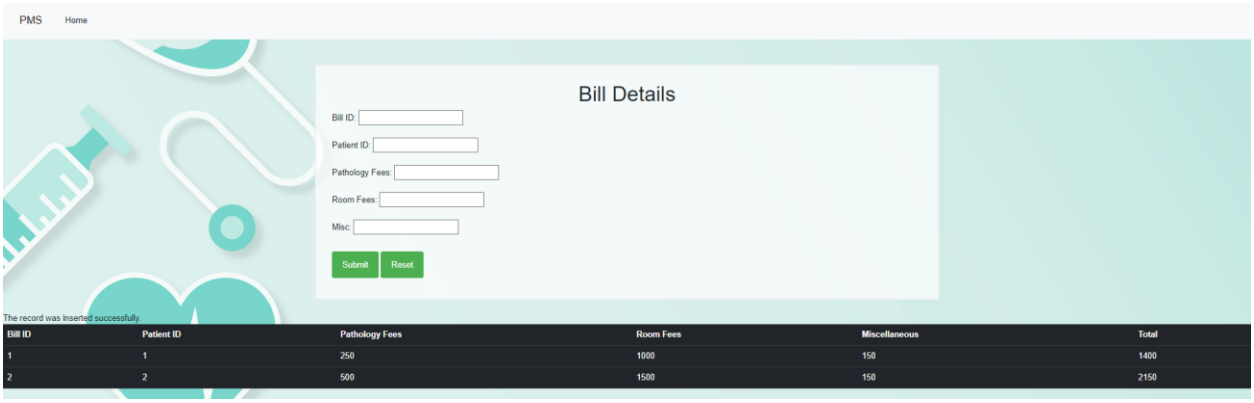
Doctor Registration Page



Medical History



Billing Page



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

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