Introduction to Database Systems
Hospital Database
<project proposal >
Team Number: 13

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Project description:

We are implementing a desktop application to represent a database management system for a hospital to store the data related to the hospital so it will be easy for doctors, nurses, pharmacist, accountant, receptionist and administrator to get and update the data related to them so this will help them to keep pace with changes that happen in hospital so they will serve patients well and manage the hospital well and know the situation of the hospital if it wins or loses .

Users:

- Administrator.
- Doctor.
- Nurse.
- Pharmacist.
- Receptionist.
- Accountant.

Entities:

- Hospital.
- Department.
- Room.
- Pharmacy.
- Medicine.
- Patient.
- Employee.
- User.
- Appointment.
- Operation.

Functionalities:

- ## Doctor:
  - Retrieve his own personal information.
  - Modify his profile information.
  - Get his own schedule of appointments and operations.
  - Get patient's medical history.
  - Modify patient's medical record (medical status, medicine, operations details).

- ## Nurse:
  - Retrieve her own personal information.
  - Modify her profile information.
  - Get her own schedule of operations, appointments and monitoring patients.
  - Record patient's daily medical status for the doctor.

- ## Receptionist:
  - Retrieve his own personal information
  - Modify his profile information.
  - Be responsible for patient's registration and discharging.
  - Get patient's personal information and appointments with doctor.
  - Check availability of doctors and scheduling appointments for patients with doctors.
  - Check availability of rooms and get/modify rooms information.
  - Check and scheduling visiting times.
  - Modify operation information.

- **Accountant:**
  - Retrieve his own personal information.
  - Modify his profile information.
  - Get information about patient's stay and treatment/operations fees.
  - Get/update payment record of patients.
  - Manage salaries of hospital employees.
  - Get hospital financial information.

- **Pharmacist:**
  - Retrieve his own personal information.
  - Modify his profile information.
  - Get patient's medicine information.
  - Record patient's medicine bills.
  - Get/update medicine information.

- **Administrator:**
  - Retrieve his own personal information.
  - Modify his profile information.
  - Get/update hospital information.
  - Get/update departments' information.
  - Manage users, employees and patients' information
    (He can add or remove any of them).