Clinic Management System

Description

- The project clinic management is software developed to simplify the communication process between the doctor and the receptionist while dealing with patients.
- The software would be operated by three users Admin, Receptionist and Doctor.
- Admin would be responsible for adding the others users and can view the profile of each (receptionist, doctor, patient) including personal details like (id, name, address, phone, etc...).
- Receptionist would be responsible for adding patients and assigning token numbers to the patient visiting the clinic and save it in the database along with their details. These token numbers along with respective patient details are sent to doctor.
- The doctor can thus view patient details and after checking up the patient, the prescription which is the recommended medicines for the particular patient is fed into the database by the doctor and is sent to receptionist.
- The receptionist can then view the prescription of patient "that is about patient history" and also can generate bill and feed into the database.
- Note: once receptionist adds token to the patient, the token will be added to the list of tokens and also once doctor adds the prescription for the patient the patient token will be removed from the list of tokens.
- **The user of the system will be:**
  - **Admin** has (user name, password), and his functionalities are (add doctor, add receptionist, view doctor, view receptionist, view patient, change passwords, logout)
  - **Receptionist** has (user name, password), and his functionalities are (add patient, create token, view tokens in lines, view patient, view prescription, discharge patient, change passwords, logout)
  - **Doctor** has (user name, password), and his functionalities are (view patient, add prescription, change passwords, logout)
- Features of the System:
  - **Doctor login:** Doctor has an account in the system from where he checks all patient details.
  - **Receptionist login:** Receptionist is allowed to login and perform token assigning and bill generation.
  - **Token generation:** System automatically generates token number for new arrivals.
  - **Patient information:** Patient information is stored in database along with their prescription.
  - **Bill information:** System generates bill for the patient as requested by the receptionist.

- **Prescription Sending:** Doctor sends prescription to receptionist from where receptionist may provide those medicines to the patient.
- **Resources tracking:** Admin can even maintain a track of resources being utilized in the hospitals by the doctors and patients.
- **Patient bill generation:** The system automatically calculates the patient bill by considering the number of days of stay, and bed and resources charges incurred.
- The system also maintains patient's history so that doctor or receptionist can view them anytime. The project is developed on java language and is supported by a database or file organization to store user specific details and retrieve it when required.

Group size

5-6 members.

Deliverables

- A System with GUI that fulfills the above requirements.
- Project documentation:
  - The project name.
  - The team members' info (ID, name and section number).
- A UML class diagram for the project.

Mentor

- TA. "Hagar Ahmed".
- Email: hagar.ahmed@cis.asu.edu.eg

Bonus

- Amazing GUI.
- Apply design pattern.
- Use database or file organization to save and retrieve the data

Hints

- Your project must implement all OOP concepts:
  - Encapsulation
  - Overloading
  - Inheritance
  - Polymorphism