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Medical Management System

# Scenario

Our goal is to create an online medical management system that makes it easy for patients to manage their medical records. Patients will be able to book their own appointments, view their prescriptions and medical records electronically, get healthcare suggestions from medical professionals, and even connect users to matching donors.

# Design Paradigm

## Classes

* Patient – manages patients
* Doctor – manages doctors
* Appointment – manages the patient and doctor for an appointment
* Record – contains information about medical records

## Methods

### For booking appointments:

* bookAppointment(Patient patient, Doctor doctor)
  + Will contain buttons and forms to select the date and doctor.
* cancelAppointment(Appointment appointment)
  + Will contain a cancel button, and a confirmation message.
* rescheduleAppointment(Appointment appointment)
  + Will contain buttons and forms to change the time of the appointment.
* viewAppointments(Patient patient)
  + There will be a button to view appointments.

### For viewing prescriptions and medical records

* viewPrescriptions(Patient patient)
  + There will be a button to view prescriptions.
* viewMedicalRecords(Patient patient) ->
  + There will be a button to view medical records.

### For healthcare suggestions

* submitQuestion(Patient patient, String question)
  + There will be a form where patients can submit questions and wait for a response from a medical professional.
* viewReplies(Patient patient)
  + The patient will be able to view replies to any questions they’ve asked here.

### For logging in

* createAccount(Patient patient)
  + If the patient does not already have an account, they can create one here with a form that prompts for a unique username and password.
* login(String username, String password)
  + Once the patient has an account, they can login to the management system here.
* logout()
  + This will log the patient out, and they will be brought to the home screen.

# Expected Output

This GUI application will contain a variety of different screens, forms, buttons, and pop-ups. This will make it simple for the patient to navigate through the different pages to efficiently manage their medical records.