Doctor Patient Portal

Group 17

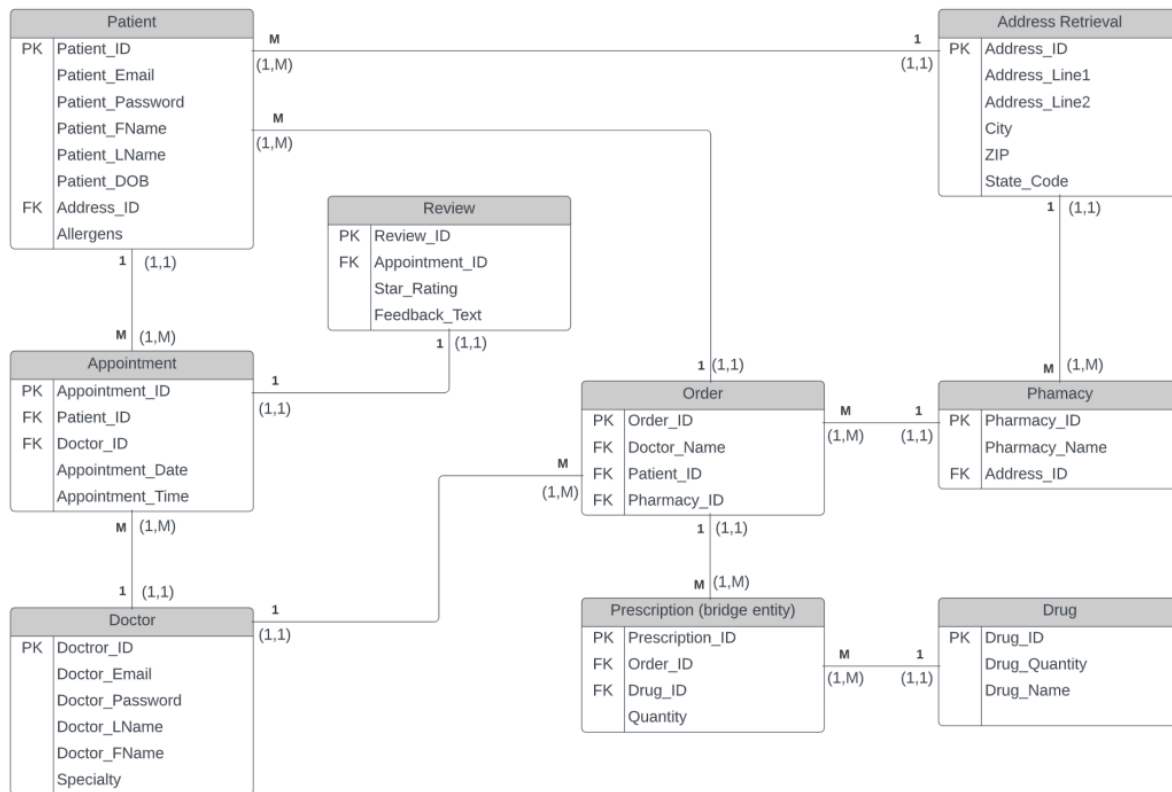Yingchen Dong, Cyrus Buhariwala,

Luis Martinez Morales, Akhil Mathew

CSCE 310

May 5, 2023
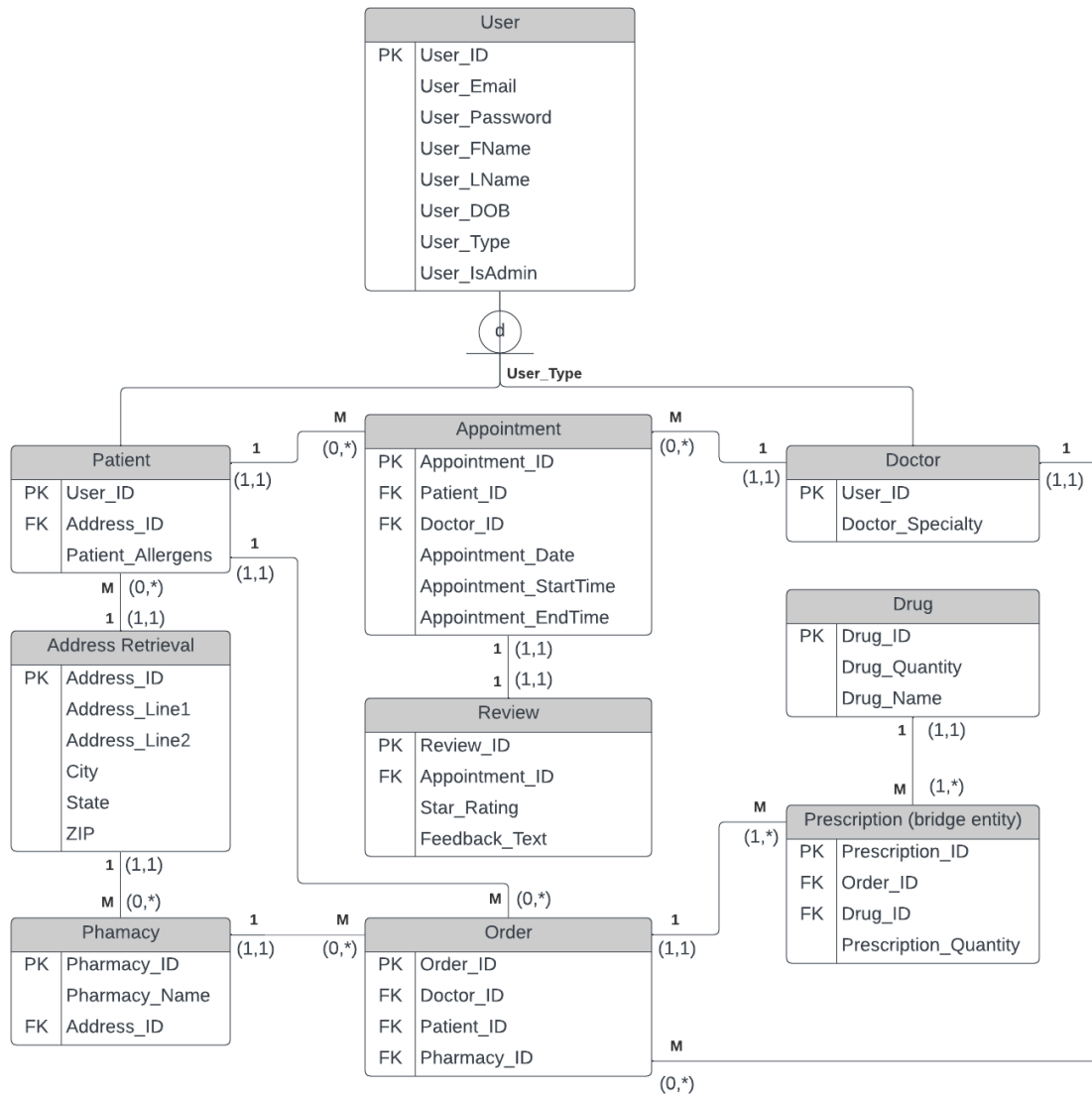
Changes to Project Design

In our initial project design, we had a different table for each of the user types. These were the "Patient" and "Doctor" tables. However, when we realized we needed an "Admin" user type, we decided that it would be better to incorporate a specialization hierarchy, as it would cut down on repetitive attributes. This condensed the "Patient" and "Doctor" tables into a single "User" table. This table has a new attribute called "User_Type" which uses phpMyAdmin triggers to add patients to the new "Patient" table with specific attributes, "Doctor" to the new "Doctor" table with specific attributes, and does nothing for admin as they have no extra attributes. This also adds a way for the users to use a single login page which will check their user type to determine which pages to send them to.

Before:
Final Project Design Submission

After:
Current Design

User

PK	User_ID
	User_Email
	User_Password
	User_FName
	User_LName
	User_DOB
	User_Type
	User_IsAdmin

d

User_Type

Patient

PK	User_ID
FK	Address_ID
	Patient_Allergens

Appointment

PK	Appointment_ID
FK	Patient_ID
FK	Doctor_ID
	Appointment_Date
	Appointment_StartTime
	Appointment_EndTime

Doctor

PK	User_ID
	Doctor_Specialty

Drug

PK	Drug_ID
	Drug_Quantity
	Drug_Name

Address Retrieval

PK	Address_ID
	Address_Line1
	Address_Line2
	City
	State
	ZIP

Review

PK	Review_ID
FK	Appointment_ID
	Star_Rating
	Feedback_Text

Prescription (bridge entity)

PK	Prescription_ID
FK	Order_ID
FK	Drug_ID
	Prescription_Quantity

Phamacy

PK	Pharmacy_ID
	Pharmacy_Name
FK	Address_ID

Order

PK	Order_ID
FK	Doctor_ID
FK	Patient_ID
FK	Pharmacy_ID

M (0,*)   1 (1,1)
M (0,*)   1 (1,1)
1 (1,1)
M (0,*)   1 (1,1)
1 (1,1)
1 (1,1)
1 (1,1)
1 (1,1)   M (0,*)
M (0,*)
M (1,*)
M (1,*)
1 (1,1)
M (0,*)
1 (1,1)   M (0,*)

Project Files

Akhil Mathew:

📂 php
- ↳ admin_actual_profile.php
- ↳ admin_doctor_profile.php
- ↳ admin_patient_profile.php
- ↳ admin_home.php
- ↳ admin_profile.php
- ↳ db_conn.php
- ↳ doctor_home.php
- ↳ doctor_profile.php
- ↳ index.php
- ↳ login.php
- ↳ logout.php
- ↳ patient_home.php
- ↳ patient_profile.php
- ↳ process-signup.php
- ↳ signup.php

Yingchen Dong:

📂 appointment
- ↳ patient_appointment.php
- ↳ patient_view_appointments.php
- ↳ doctor_appointment.php
- ↳ doctor_view_appointments.php
- ↳ doctor_update_appointments.php
- ↳ admin_appointment.php
- ↳ admin_view_appointments.php
- ↳ admin_update_appointments.php

Luis Martinez Morales:

📂 order
- ↳ patient_order.php
- ↳ patient_prescription.php
- ↳ doctor_order.php
- ↳ doctor_prescription.php
- ↳ admin_order.php
- ↳ admin_prescription.php
- ↳ insert_prescription.php
- ↳ update_prescription.php
- ↳ delete_prescription.php

Cyrus Buhariwala:

📂 review
- ↳ patient_reviews.php
- ↳ patient_add_review.php
- ↳ patient_edit_review.php
- ↳ patient_delete_review.php
- ↳ doctor_reviews.php
- ↳ admin_reviews.php
- ↳ admin_detailed_reviews.php
- ↳ admin_delete_review.php

Functionalities Completed

Functionality Set 1: Users
- Akhil Mathew was responsible for this portion.
- The patient, doctor, and admin have an appropriate registration method that is appropriate
- The user has the ability to login into the user account and access proper functionality
- The user has the ability to update relevant profiles
- The admin has the ability to delete the account and all related appropriate data
- The admin has the ability to add an account
- The admin has the ability to edit any user profile information

Functionality Set 2: Appointments
- Yingchen Dong was responsible for this portion.
- The doctor and the admin have the ability to create appointments.
- The patient can join available appointments.
- The admin can view all the appointments.
- The doctor can view appointments that are designated to his/her User_ID.
- The patient can view all the appointments and appointments that are designated to his/her User_ID.
- The admin and doctor can update appointments.
- The admin and doctor can delete appointments.
- The patient can cancel his/her appointments.

Functionality Set 3: Orders
- Luis Martinez Morales was responsible for this portion.
- The doctor and the admin are able to add Orders for Prescriptions.
- The patient and doctor can view only the Orders and Prescriptions that are designated to their User_ID. The admin can view all the Orders and Prescriptions.
- The doctor and admin are able to update Prescriptions.
- The doctor and admin are allowed to delete Prescriptions.

Functionality Set 4: Reviews
- Cyrus Buhariwala was responsible for this portion.
  - <u>Admin</u>
    - The admin has the ability to view all reviews.
    - The admin can view a detailed review table which uses JOIN to also list the appointment date, doctor, and patient associated with each review.
    - The admin can delete any review, but not edit or add (these are reserved for the patient).
  - <u>Patient</u>
    - The patient has the ability to view all of their appointments with or without a review.

- This detailed table using JOIN to show all appointments, the date of each appointment, the doctor for each appointment, and the current review if it exists.
    - ■ The Patient can add, edit, or delete a review for their appointments.
  - ○ Doctor
    - ■ The doctor has the ability to view each of their appointments and a review if it exists for them.
      - This detailed table using JOIN to show all appointments, the date of each appointment, the patient for each appointment, and the current review if it exists.
    - ■ The doctor cannot add, edit, or delete their reviews as this would be unethical.
      - This ability is reserved for the Admin or Patient that created the review.

Explanation of Changes to Assigned Tasks

When we had first assigned each task, it was pretty early in the semester. Originally, Functionality Set 1 was assigned to Cyrus, Functionality Set 2 was assigned to Yingchen, Functionality Set 3 was assigned to Akhil, and Functionality Set 4 was assigned to Luis. This was simply because we were forced to make assignments before organizing our workflow and addressing our team's skills. In the early steps of development, Cyrus began constructing the database in MyAdmin, Yingchen began looking into resources on how to host our database online, Luis began researching how to use PHP, and Akhil began implementing a simple login page. This was the first shift where Akhil took charge of Functionality Set 1 (users). Following this, Yingchen volunteered to take on Functionality Set 2 (appointments). With appointments implemented, Cyrus went ahead and began working on Functionality Set 4 (reviews). This left Luis with Functionality Set 3 (orders).