

Project Milestone 1

Group Members:

1. Philip Liberato: pnl8zp
2. Raven Smith: rds5gg
3. Ismail Wahid: iaw4ny
4. Scott Newton: stn4at

Potential Project Name: UVA Medical Database

Project Idea

Our plan is to implement a database that houses medical records. This would include all layperson data (name, address, social security number, DOB, insurance info, contact and emergency contact info) as well as their medical records (medications, history, allergies, surgeries, etc). The database will be accessible through a modern online view.

Documentation Introduction

Tables:

1. Medical Record (Disease/Illness/Ailment, History, Doctor, Nurse, Pharmacist)
2. Person (ID, Name)
 - a. Patient (Medical Record)
 - b. Employee
 - i. Doctor (Practising License #)
 - ii. Surgeon (Practising License #)
 - iii. Nurse (Practising License #)
 - iv. Pharmacist (Practising License #)
 - v. Janitorial / Sanitation Crew
 - c. Emergency Contact (Patient, Relation to Patient)
3. Disease/Illness/Ailment
4. Hospital (Employee, Hospital Wards, Patients, Medical Records)
5. Hospital Ward / Subdivision

Requirements Documentation (Non-Exhaustive, In Progress)

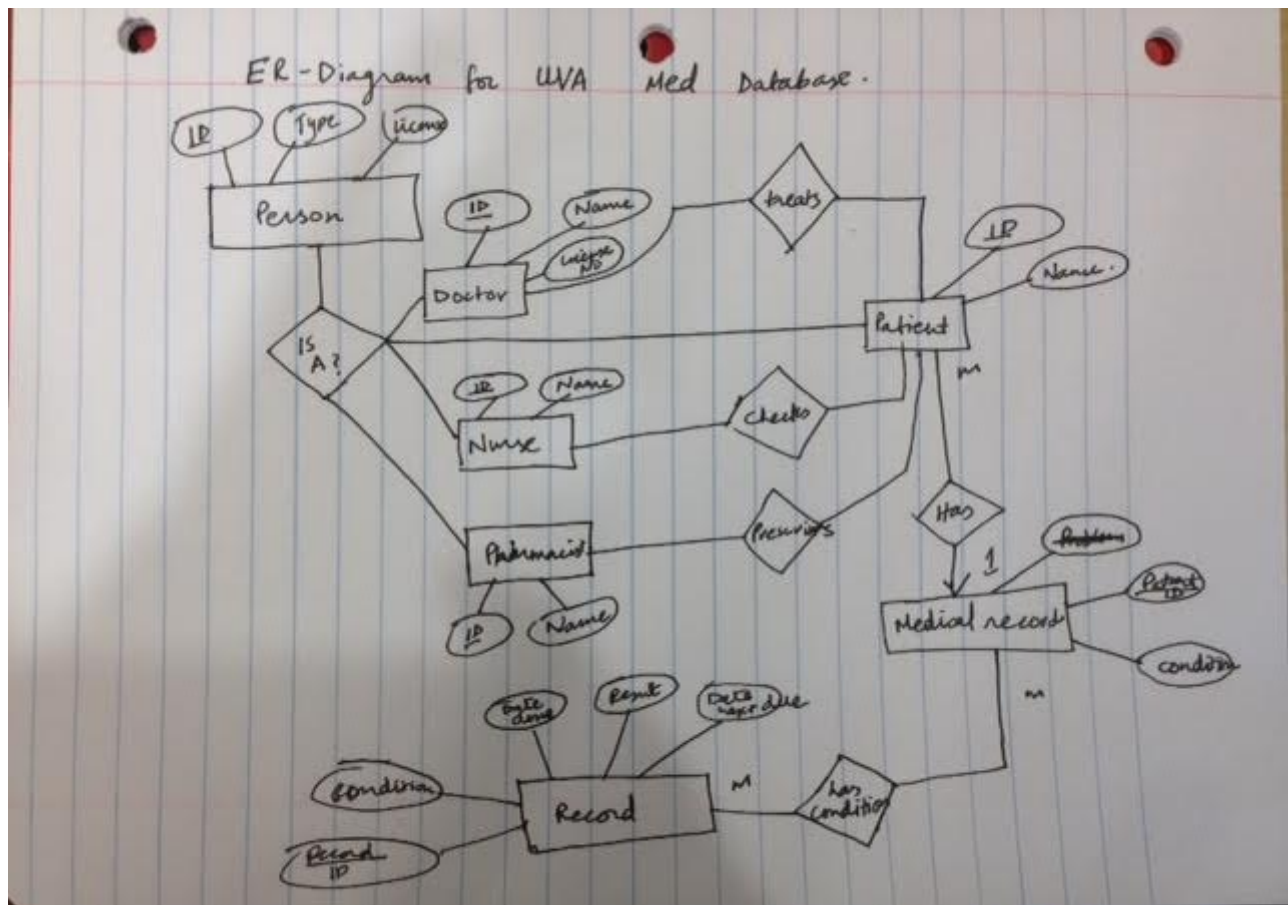
Use Cases

- As a doctor, I need to pull up a complete medical record on a patient by their name
- As a doctor, I need to pull up a complete medical record on a patient by their address
- As a doctor, I need to pull up a complete medical record on a patient by their SSN
- As a doctor, I need to pull up a list of complete medical records on patients by their DOB
- As a pharmacist, I need to pull up relevant patient info like medications and allergies
- As a nurse, I need to pull up relevant patient info like previous disorders, visits paid for various reasons, and diagnosis in the past.

User Requirements

- The user will be able to search for a patient and pull up their medical record
- The user will be able to search for an employee of the hospital and pull up their information
- The user will be able to search for a hospital and pull up its associated information
- The user will be able to search for a hospital ward and pull up its specific information
- The user will be able to search for a disease/illness and procure a list of all patients admitted to the hospital for that reason

E-R Diagram



Milestone Conclusion

For the first milestone, our group met to discuss the structure of our database in greater detail. We defined several tables, use cases, and user requirements. We also constructed an E-R diagram which illustrates the relations between our entities as we currently understand them. The complexity of our database will no doubt continue to grow as we continue to decide upon the expected functionality of the database. This will be reflected in future milestone submissions.