# **PointSync**

## **Clinton Roberts**

A screenshot of a computer

Description automatically generated

Figure : graph should chief complaint pk in graph table

# **Overview**

For my web application, I will be using PostgreSQL to store the data used in this application. PostgreSQL is known for its data integrity, which is vital for appointments. With this database, there is scalability for growth and the ability to handle complex queries. The most important thing when it comes to this database is reliability because of the sensitive information that is being handled by this application.

When it comes to the data being analyzed and collected, this database will allow to access easily while keeping it organized.

# **Data Specifications**

I plan on using MongoDB, which allows for flexibility when embedding documents or through the use of references.

**USERS PT**

The user table will store all the user information for the patient. In order for the patient to make an appointment, they’ll need to sign into their account. Everything regarding this table is a one to one relationship as it pertains to the patient.

**User Doc**

The user doc table is essential in regards to the doctors and the appointments. In order for them to assign their times and availability, they’ll need access to this account, which is why they also a doc\_id specific to their account. This is also a one-to-one relationship.

**Appointments**

The appointments table is what is accessed by the user pt and user doc tables in order to make appointments. It’ll also be used to gather data for the graph table. This table has one to many relationships In appointments, to meet the stretch goals. We need to add in shares as a way to store links that people will be using for sharing with others to inform them of their appointment time, also for the potential calendrer.

**Graphs**The graph table is important for gathering and processing data for graphs and trends. The graph table has a many-to-one relationship, seeing as how it’ll be able to track the complaints and the date.