**Final Sprint Java Manny Nwokedi**

**Documentation:**

This Health Monitoring Application system is for helping users track their health data and manage medicine reminders. It allows users to input their health info such as weight, height, steps, and heart rate, as well as set reminders for their medication schedules. These Java files provide functions for both users and doctors. Users can monitor their health data and doctors can check patient information.

**Classes:**

**HealthMonitoringApp:** Main class responsible for starting the application. It fetches health data and medicine reminders for display.

**User:** Represents the user. It stores user details such as ID, first name, last name, email, and passwords.

**UserDao:** Data Access Object class for interacting with the User table in the database. This provides methods for user registration, login, and retrieval.

**Doctor:** this represents a doctor. It stores doctor details such as ID, first name, last name, and specialization.

**DoctorDao:** Data Access Object class for interacting with the Doctor table in the database. It provides methods for fetching doctor information.

**HealthData:** Represents health data records for users. It stores health info such as weight, height, steps, heart rate, and date.

**MedicineReminder:** Represents medicine reminder records for users. It stores medicine info such as medicine name, dosage, schedule, start date, and end date.

**MedicineReminderManager:** It manages the data of medicine reminders. It handles adding reminders to the database.

**DatabaseConnection:** Establishes a connection to the PostgreSQL database.

**Diagram:**

*User 🡪UserDao🡪HealthDataMedicine🡪 MedicineReminderManager*

*Doctor🡪 DoctorDao🡪 HealthData🡪 MedicineReminder*

**How to start the Application:**

* I download or clone the source code from my repository.
* I compile my project.
* I set up a PostgreSQL database for the development in my DatabaseConnection.
* I ran the HealthMonitoringApp.java file in its terminal window.

**Database for Development:**

I made a database called "Health\_Stack\_Project\_Term3\_Final\_sprint". I created the tables (health\_data, medicine\_reminders, doctor\_patient, recommendations, and Users). I cloned my files for my GitHub repository.