**Alex Ewida Final Sprint Java project**

**Documentation**

**1. Introduction**

This Smart Health Monitoring System is a Java application designed to monitor health data, user data, recommendations, doctor and patient info and manage medicine reminders for users.

**2. Application Overview**

The project consists of several files designed to perform special tasks:

HealthMonitoringApp: The main class responsible for displaying health data and medicine reminders for users.

UserDao: This manages user-related database operations such as creating, updating, and deleting users, as well as fetching user information.

DoctorPortalDao: It handles interactions related to doctor-patient relationships in the system.

RecommendationSystem: This will manage recommendations for users based on their preferences.

MedicineReminderManager: It manages medicine reminders for the users, including fetching and displaying reminders.

DatabaseConnection: This will connect my java files to my database.

**3. How to Start the Application**

To run the Smart Health Monitoring System:

* I have Java installed into my computer.
* Clone the project repository from my GitHub.
* Open the project in Visual Studio Code.
* Compile the project.
* Run the java files in the terminal window
* Run the DoctorPortalDao.java
* Run the User.java
* Run the RecommendationSystem.java
* Run the HealthMonitoringApp.java

These applications will fetch and display the User data, doctor-patient relationships data, recommendations data, health data and medicine reminders for the users.

To generate Javadocs for this project, you can use the javadoc command-line tool.

**Directory Structure:**

My “Java Final Sprint Winter 2024 Project Alex Ewida” main folder contains all my java files for this project. This main folder also contains a “script” folder which carries the sql files for pgAdmin4. The main folder also carries a “lib” folder which contains jar files. There are also screenshot folders.

For setting up the database, I created a database named “Smart\_Health\_Monitoring\_System” in pgAdmin4. After building the sql files and tables, I configured the database connection parameters in the DatabaseConnection.java file.