Health eHub

Christine Dillon(@cadillon1), Glapougbae Garmondeh (@ggarmondeh), Katie Merritt (@launchKat), & Kit Pyles (@KitPyles)

Description

Health eHub is a patient-centric universal health record application that puts the individual in control of their own medical data by creating a single location to store and access relevant data.

Features

- Global Design: The application features an aesthetically pleasing color palette with applied color theory, accessibility and logo
- User account creation and log in: Users can create and log into the application with security to safeguard their data
- Organized data tabs: Application is organized by group and type on specific, tabbed pages creating a simple, logical structure
- External database connections: The applications connects to external databases of health data maintained by the FDA to assure the ability to find the most current information

Planning - User Stories

The intent of Health eHub is to provide a "one-stop" location health information. This is achieved through:

- Left margin tab system alphabetized and organizing a specific type of information (e.g. Pharmacies, Providers, Medications, Allergies)
- Color application: a global design has been established to provide a comfortable consistent feel in the navigation. Color theory is also utilized to enhance comfort using the system and allows greater accessibility.
- External APIs: Connections to external APIs for medications helps to assure correct medications are located to potential prevent medication errors or interactions .

Planning - Database

Health eHub has a series of tables that allow the storage of health information based on the tab of the application. Users are able to add specific types of information to table and then display it. The current state is for these tables to be isolated, but a future goal is to be able to join the tables to allow a user to search for more specific details.

Technology Stack

- Java 11
- Spring Boot 3.0.1
- Spring Security 6.0.1
- Hibernate 6.1.4
- Thymeleaf templates 3.1.1
- MySQL 8.0
- HTML5
- CSS 3

Demo

https://youtu.be/J7jcstdUW64

What We Learned

- Currently learning spring security
- Connecting to an external database to search for medications
- Creating secure user logins
- Creation of screens to add and then view that provide a seamless user experience

What's Next

- Three planned features that were returned to backlog after losing a team member.
- Additional accessibility based color and design to improve visibility and design for all individuals
- Learning how to deploy additional external APIs to search for diagnosis codes
- Implementing spring security to assure data remains secure
- Enhanced searching and editing of data through joined tables.