Health Metrics Visualization

The Members

Aditi Kisara

- User Interface & Calories Tab

Alejandro Sanchez

- Back-end and Data management

William Yang

- User Interface & Profile Tab

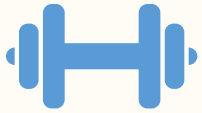
Nu-Chong Lee

- User Interface & Weight Tab

Cesar Garcia

- User Interface & Workout Tab

What We Are



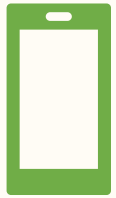
A <u>mobile app</u> that:

Records daily, weekly, and monthly fitness activities and wellness attributes such as

- Hydration
- Calorie intake
- Workout hours
- Weight

Provides an interactive breakdown of user fitness data

- Users can tap on these interactive panels to acquire more information to help them reach their fitness goals



Tools we used:

Google Fit API

Android Studio

Visual Studio Code

SQLite for Android for database management

Use Case

- **When can you use the app?**
  - Users can track their calories, workout hours, and more, on a daily-, weekly-, and monthly-basis

- **Where can you use the app?**
  - Can be used anywhere with an android smartphone
    - At home, at the gym, or anywhere the user wants to be active

- **Who can use the app?**
  - Beginner-friendly and includes easy-to-learn controls
    - Gives the user insight of their own fitness routine
  - Experienced users are welcome to use our app

Interaction Design

The app should be customizable

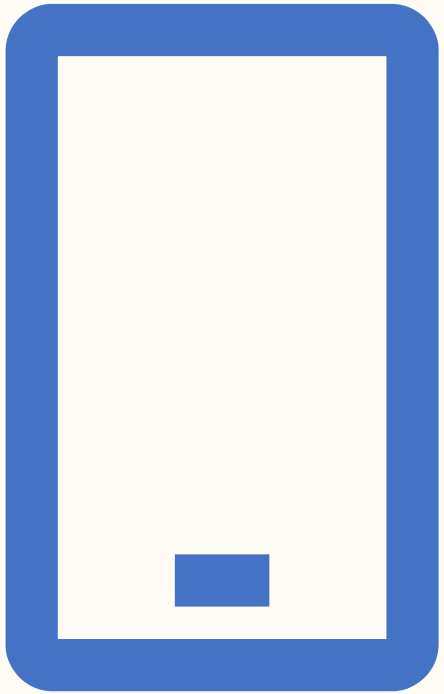
- The user should be able to set their goals
- The app should track how much progress they have made based on their goals

The app should feel welcoming

- Set up a color scheme that would feel calm, but also encouraging
- Because there is no important information being represented through color, we do not need to account for people with colorblindness

The app should be easy to use

- The user should be able to navigate around the app with ease
- All options are visible upon opening the app
- Any input from the user should update the corresponding logs
- The user can click on a point on the graph to show more information



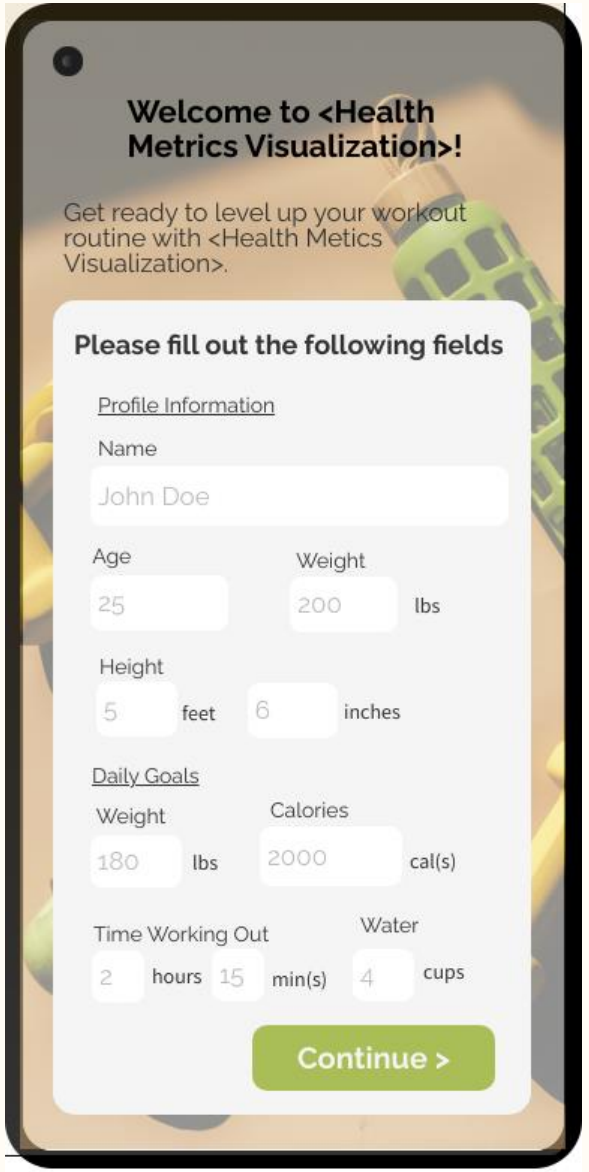
Interaction Design

User Registration

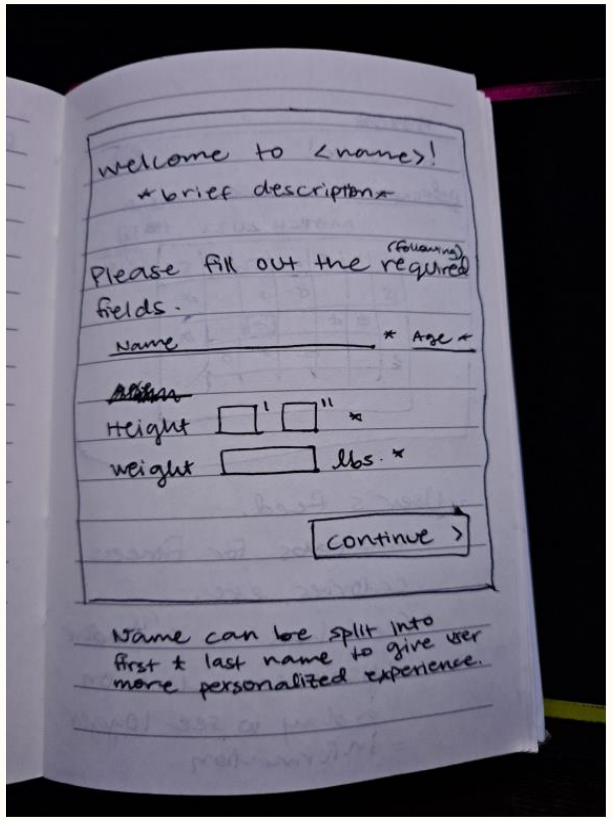
- We wanted the user to save their personal information and fitness goals to tailor to the user's needs.
  - Ex. The user can set a calorie-intake goal

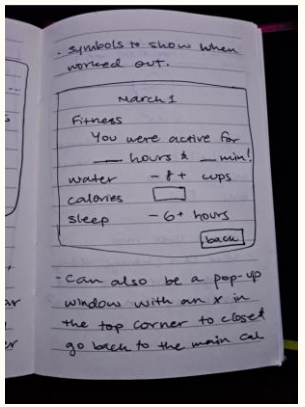
Overall Design

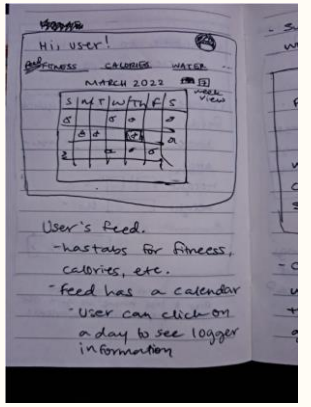
- Used tabs so that the user always knows what options are available as soon as they open the app
  - Can swipe or tap between tabs
- The user profile is at the top corner of the page
- Graphs help visualize the user's progress
  - Users can gain more insight of their fitness patterns by tapping on graphs
- All the user data is stored locally on the mobile device (i.e., no cloud storage is available)

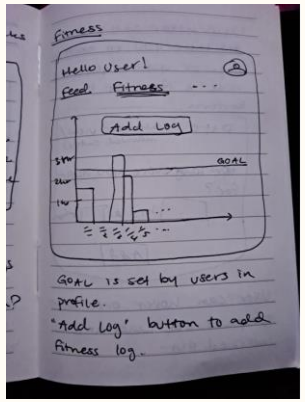


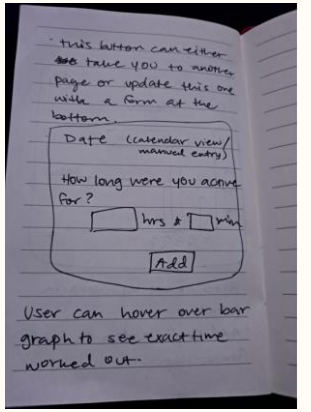
Low-fi Designs



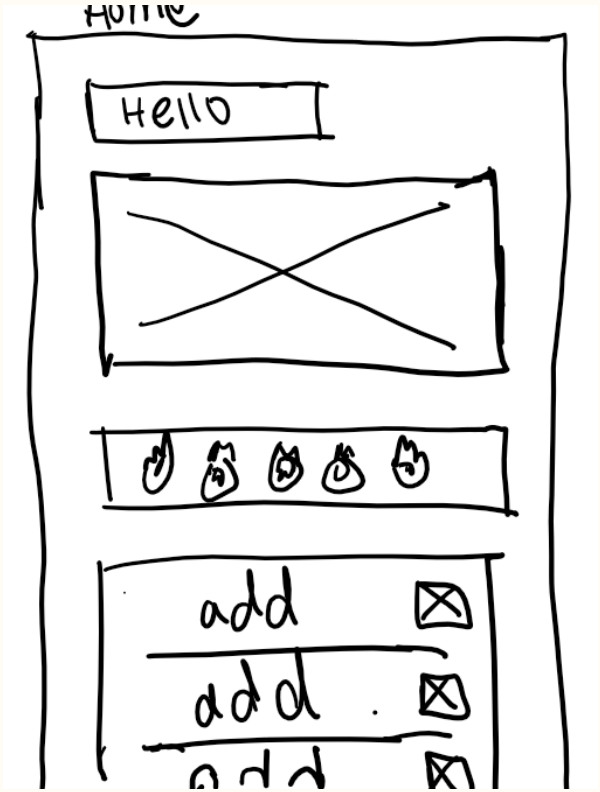


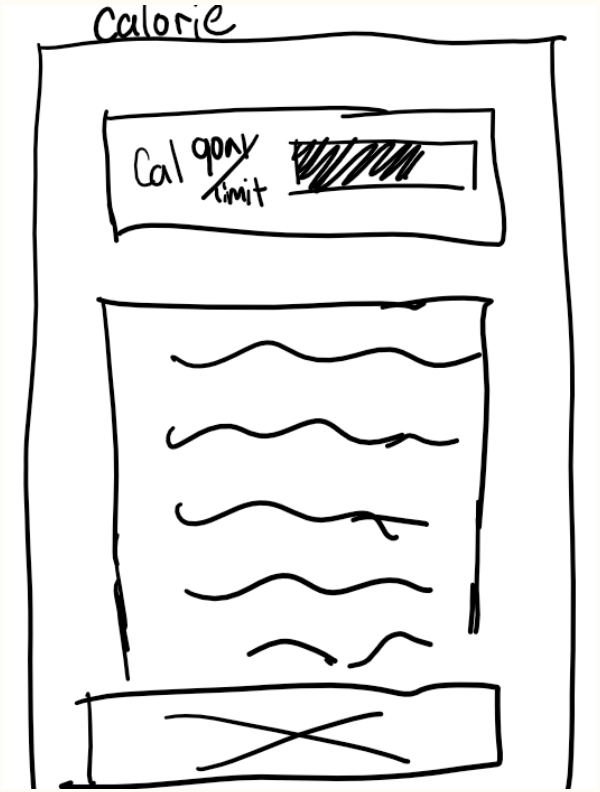


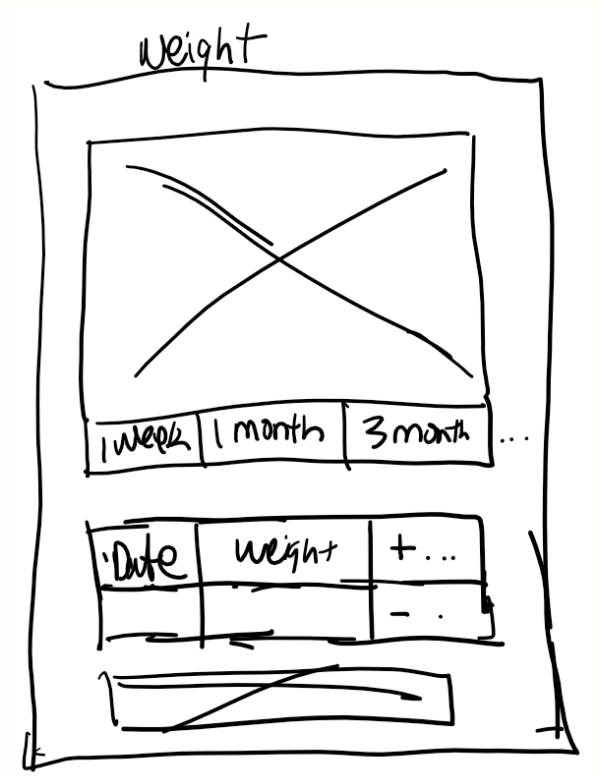


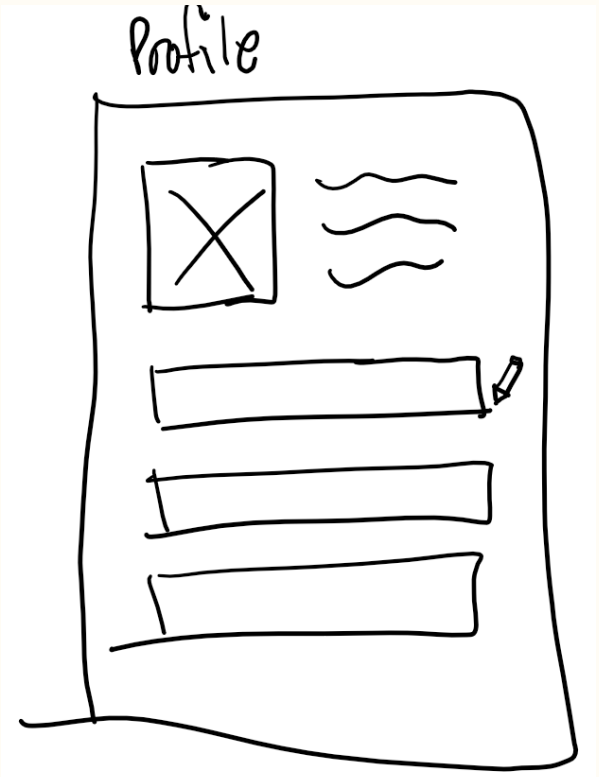


Interface Design



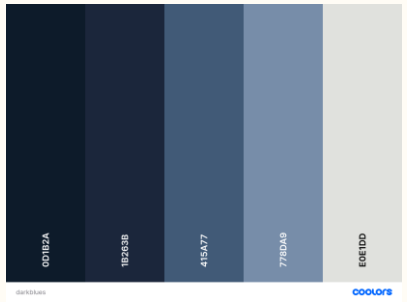


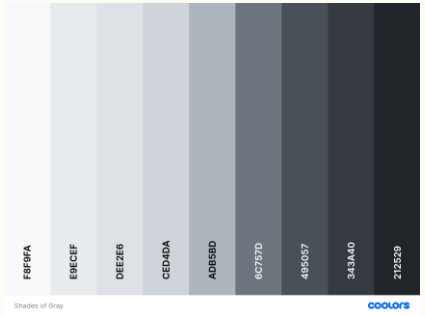


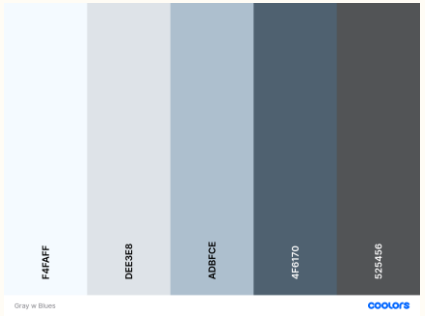


Theme Ideas

Dark



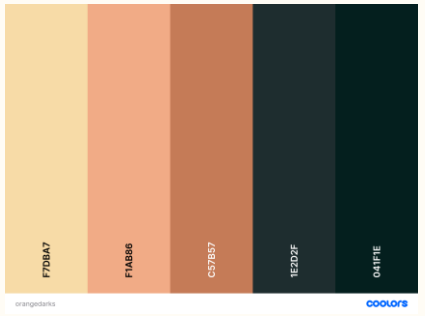


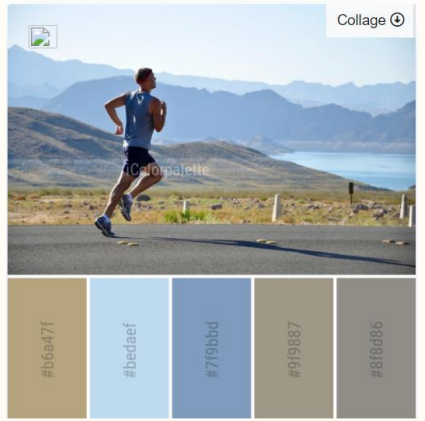


Sporty

Energetic

Outdoors





Color Scheme

Image for Inspiration

Background

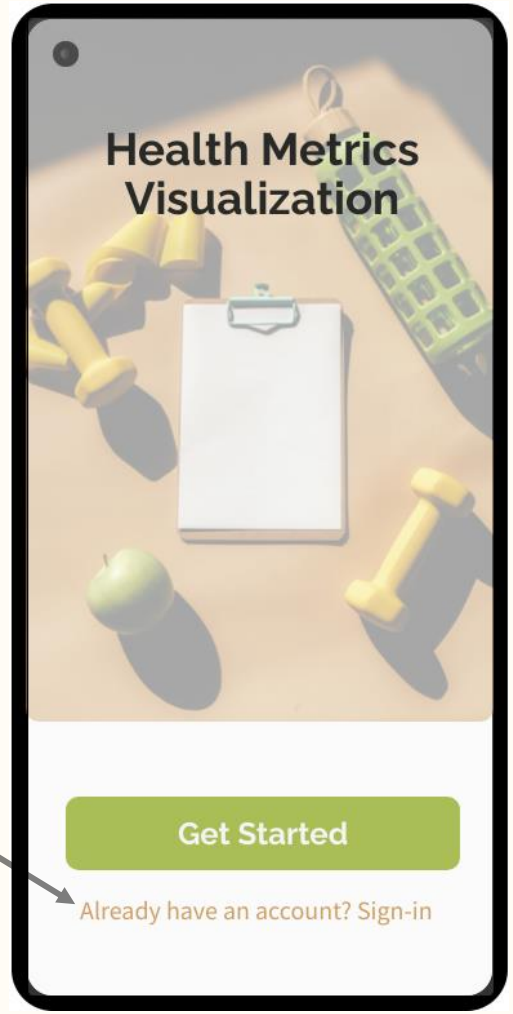
#E0E0E0 #D9B688

Accent

#68473B #A9BE57 #F2DF9E

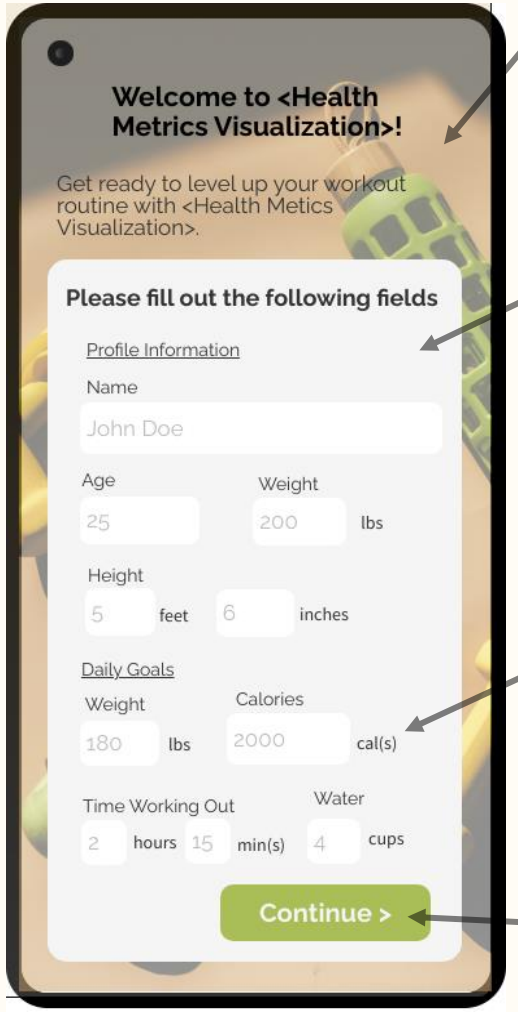
#282A29 #86AE9C #D09F64

Application of Colors



Alternative Action

#D09F64



Background

#D9B688

Background

#E0E0E0

Generic Text

#282A29

Call to Action

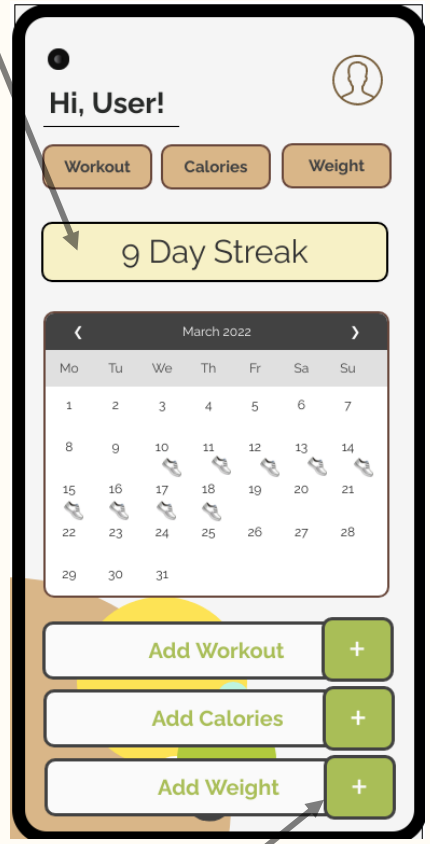
#A9BE57

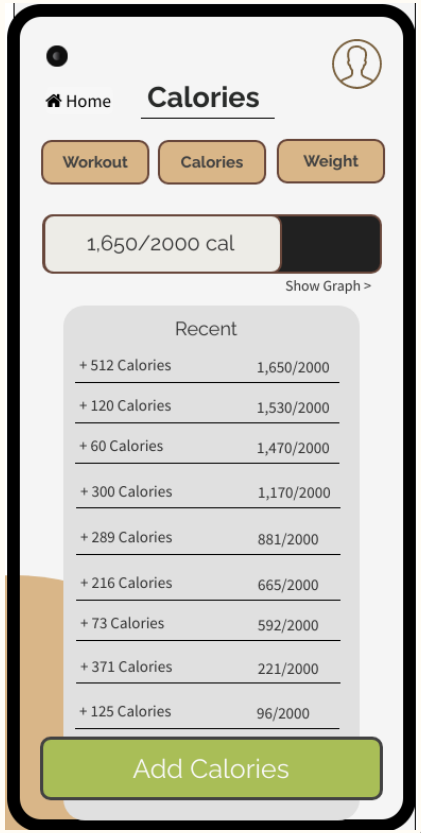
Color Scheme Application

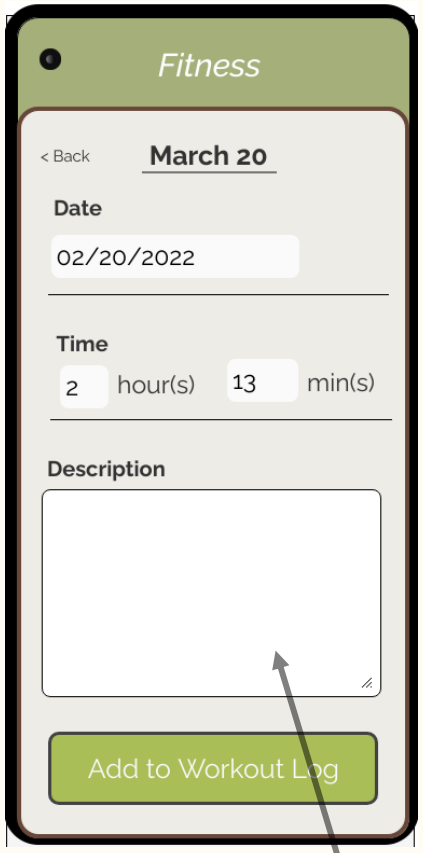
Check out the rest of the designs here

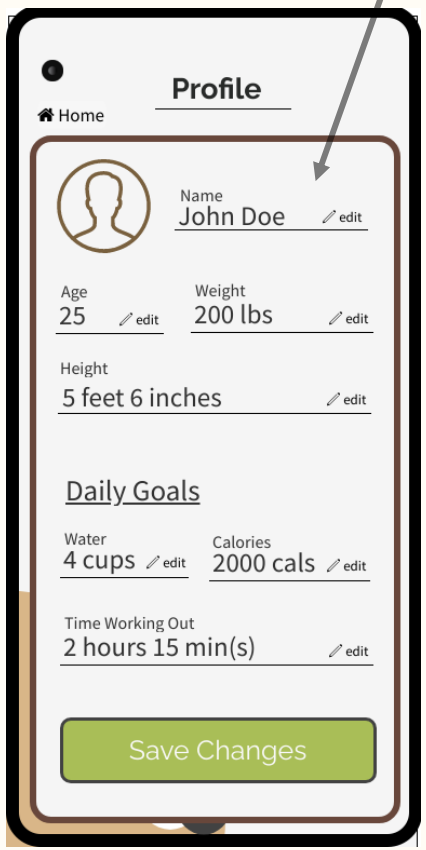
Bright Streak System

Grayscale







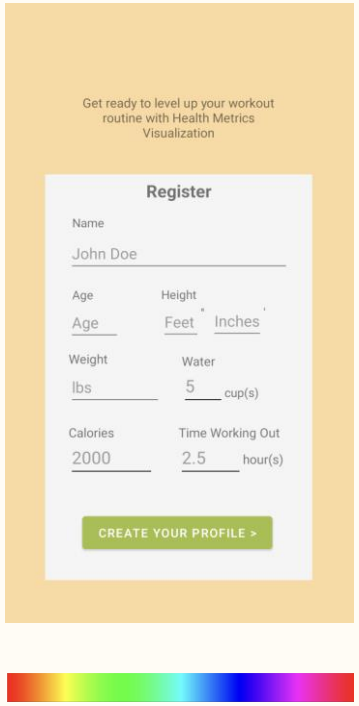
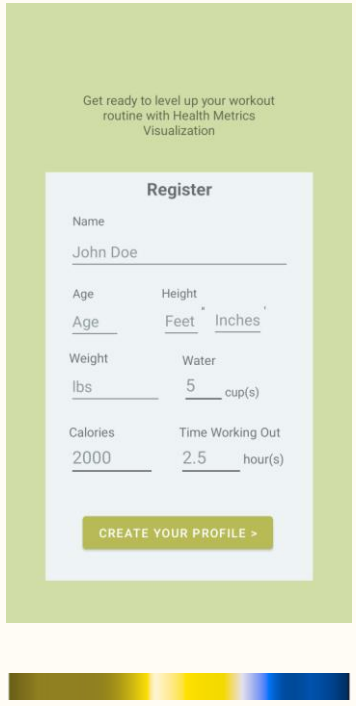
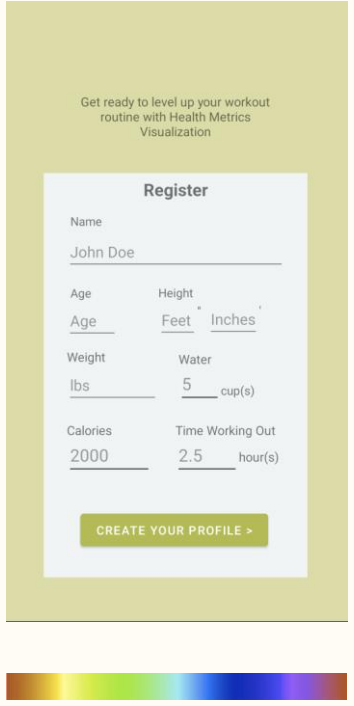
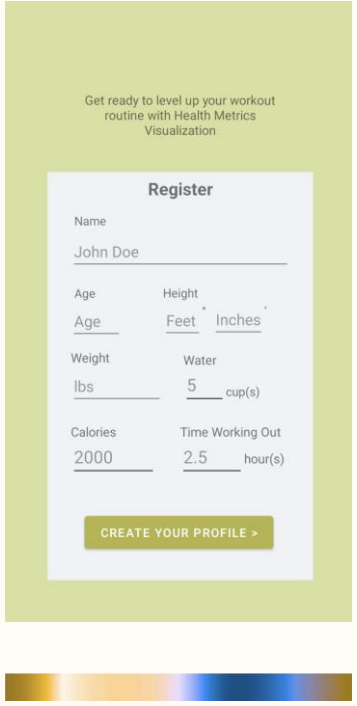
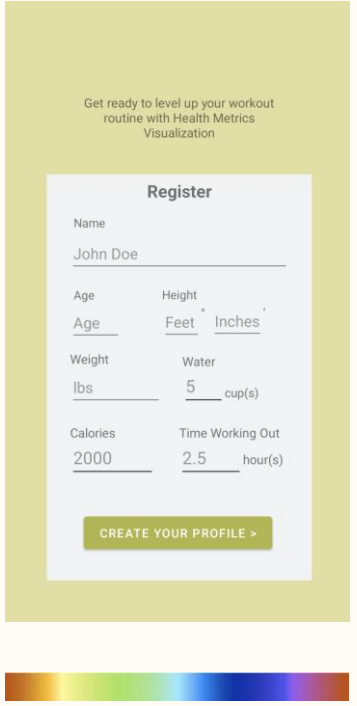
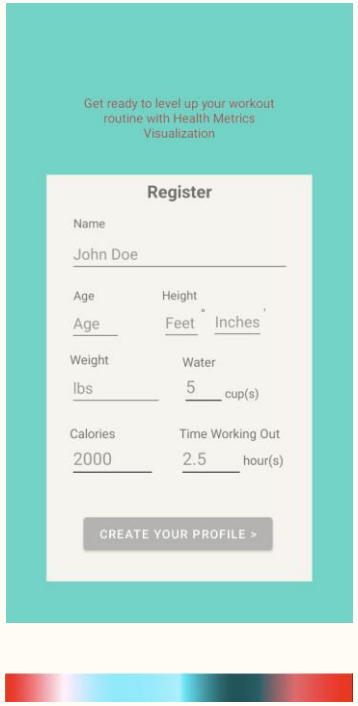


Dark Borders

Grayscale & Hierarchy

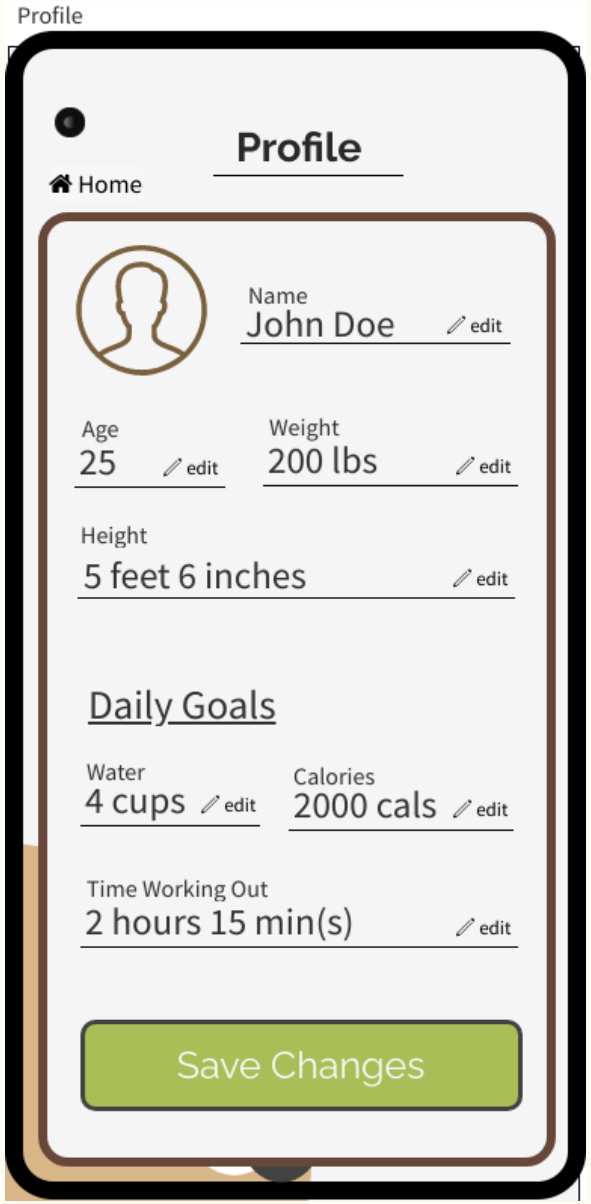
White Input Box

Colorblindness

True	Protanopes	Protanomaly	Deuteranopes	Deuteranomaly	Tritanopes
					
	Absence of the red-sensitive pigment in cones	Not a complete loss of red sight, some red sensitivity may still exist to some degree	Sensitivity to green is reduced	A milder form of deuteranopia	Impaired blue and yellow vision

How Does It Actually Look?

Design



and

App

Where can we go with our app?

Use Google Fit to visualize data more meaningfully

Set reminders to perform physical activities

Set streak reminders to improve user consistency

Give the user a virtual journal to record notes

Track sleep schedule provide suggestions on better sleep habits

APIs Used

- **MP Android** for showing data to our users.
- **Calendar** and **Date** for getting the user's local date and time to show meaningful weekly and monthly data.

Demo

Thank You!

Aditi Kisara, Alejandro Sanchez, William Yang, Nu-Chong Lee, Cesar Garcia