

The background features several abstract geometric shapes. In the top right corner, there is a cluster of overlapping circles in yellow, green, and brown. Scattered throughout the slide are various curved lines and arcs in shades of yellow, green, and brown, some of which are partially cut off by the edges of the frame.

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 mobile app 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

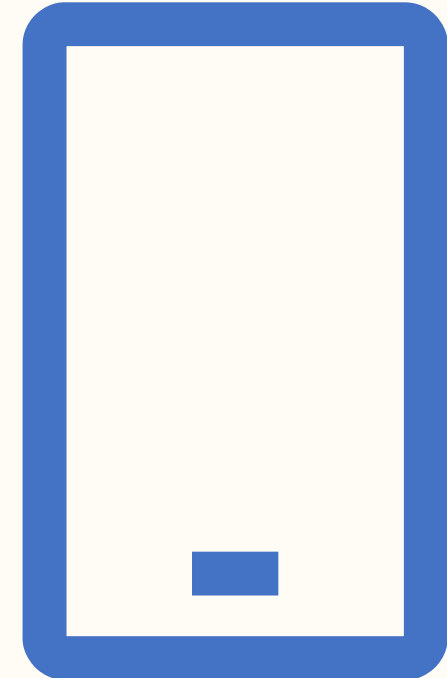
- The user should be able to set their goals
- The app should track how much progress they have made based on their goals

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)

The image shows a mobile app registration screen. At the top, it says 'Welcome to <Health Metrics Visualization>!' followed by a motivational message: 'Get ready to level up your workout routine with <Health Metrics Visualization>.' Below this is a form titled 'Please fill out the following fields'. The form is divided into two sections: 'Profile Information' and 'Daily Goals'. The 'Profile Information' section includes fields for Name (John Doe), Age (25), Weight (200 lbs), and Height (5 feet 6 inches). The 'Daily Goals' section includes fields for Weight (180 lbs), Calories (2000 cal(s)), Time Working Out (2 hours 15 min(s)), and Water (4 cups). A green 'Continue >' button is at the bottom right of the form.

Welcome to <Health Metrics Visualization>!

Get ready to level up your workout routine with <Health Metrics Visualization>.

Please fill out the following fields

Profile Information

Name
John Doe

Age
25

Weight
200 lbs

Height
5 feet 6 inches

Daily Goals

Weight
180 lbs

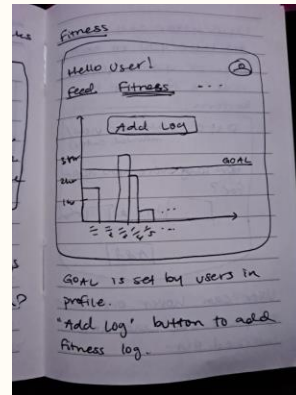
Calories
2000 cal(s)

Time Working Out
2 hours 15 min(s)

Water
4 cups

Continue >

Low-fi Designs



welcome to <name>!
brief description

Please fill out the required fields.

Name _____ * Age *

Height ' " *

Weight lbs. *

Continue >

Name can be split into first & last name to give user more personalized experience.

Symbols to show when worked out.

March 1

Fitness

You were active for _____ hours & _____ min!

Water - # + cups

Calories

Sleep - 6+ hours

Log

- Can also be a pop-up window with an x in the top corner to close & go back to the main cal

Profile (when user clicks on their img)

User

Age change

Height change

Weight lbs change

Goal

- Shows user info

- User can change things

- Maybe have users add goals they wanna reach?

Hi, User!

fitness calendar water

MARCH 2022

1 2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

User's feed.

- has tabs for fitness, calories, etc.

- feed has a calendar

- User can click on a day to see log of information

this button can either take you to another page or update this one with a form at the bottom.

Date (calendar view/ manual entry)

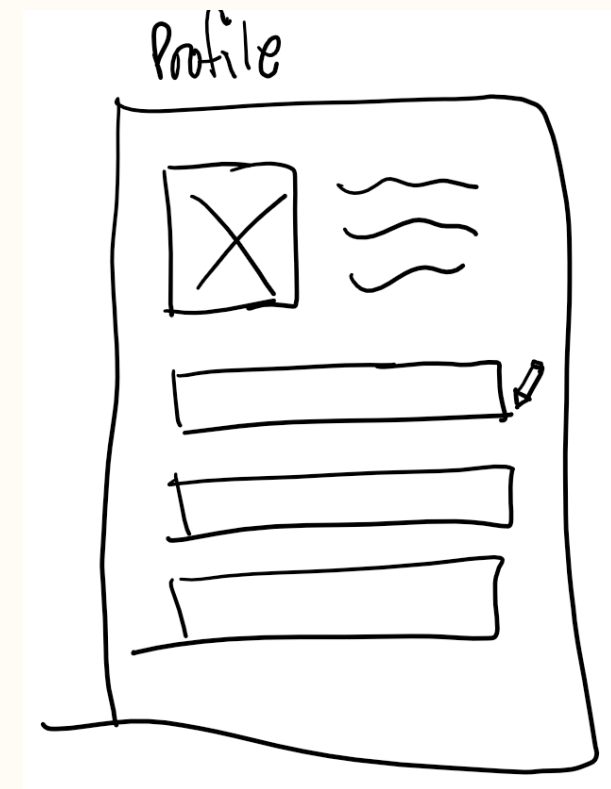
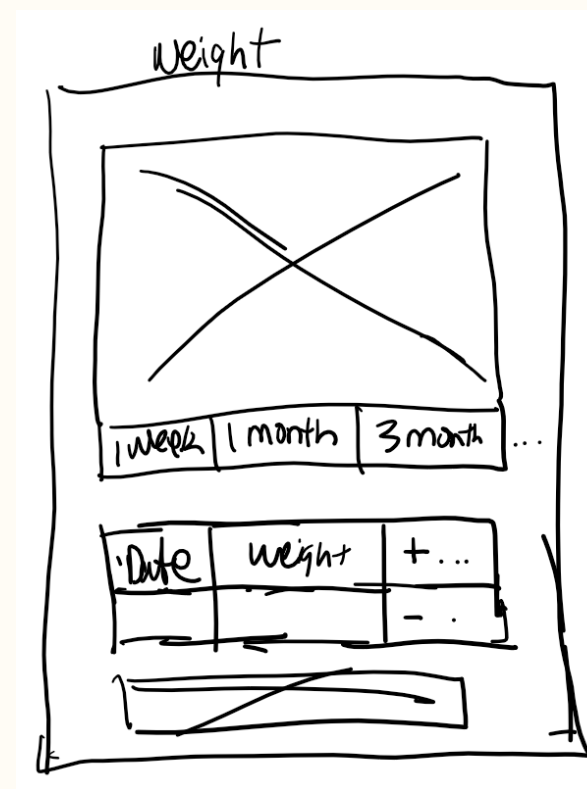
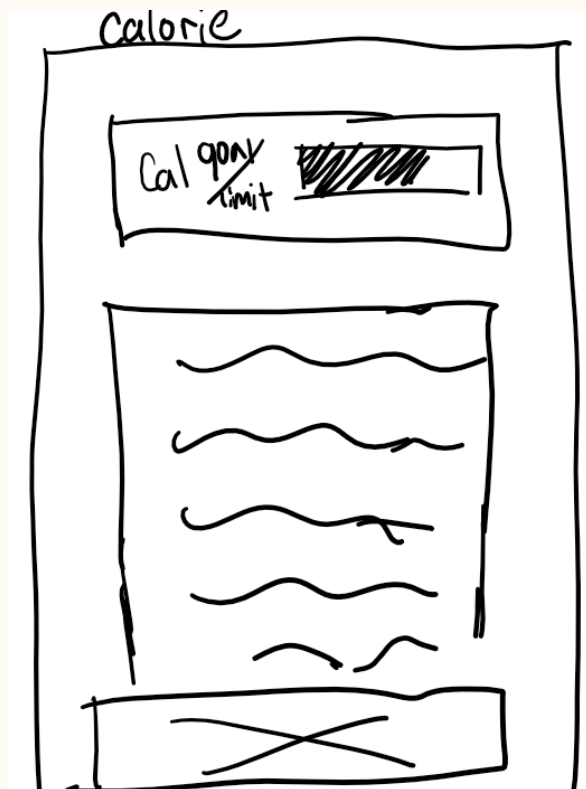
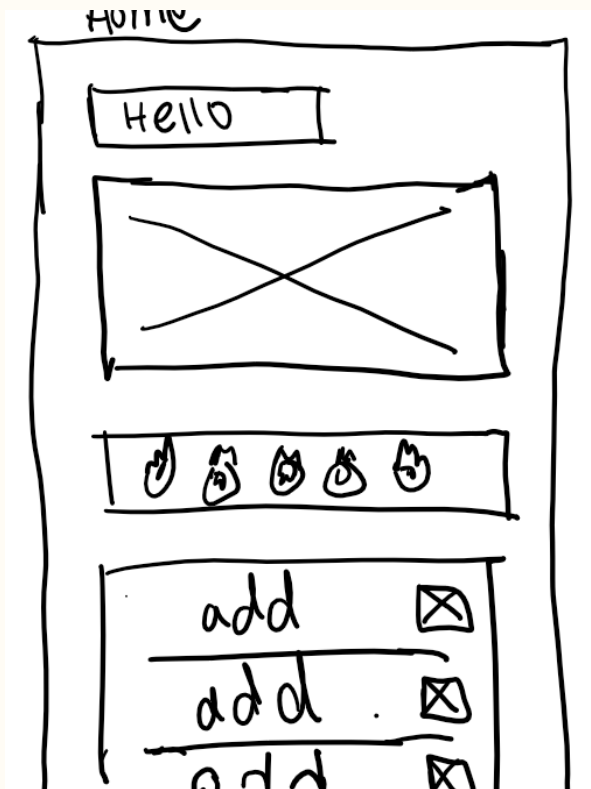
How long were you active for?

hrs & min

Add

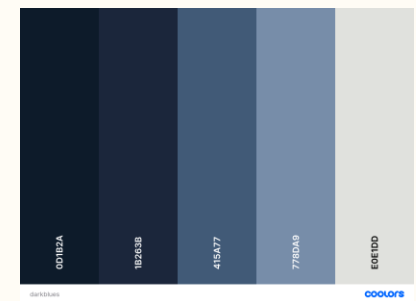
User can hover over bar graph to see exact time worked out.

Interface Design



Theme Ideas

Dark



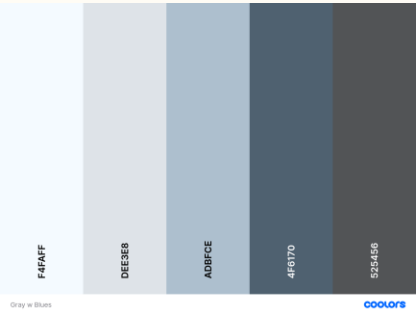
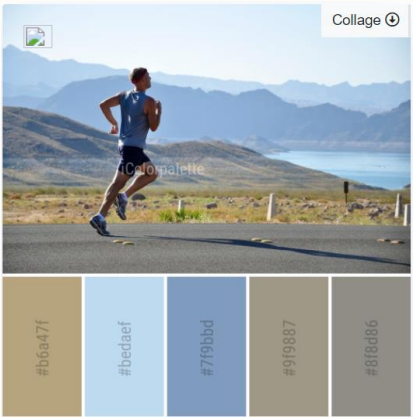
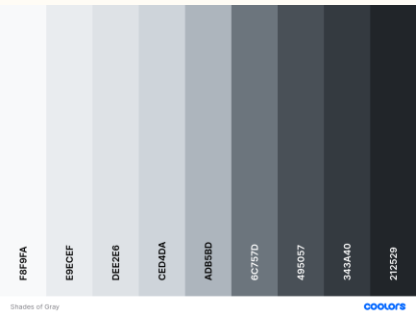
Sporty



Energetic



Outdoors

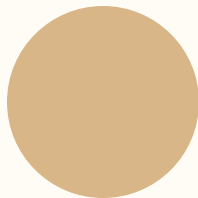


Color Scheme

Background



#E0E0E0

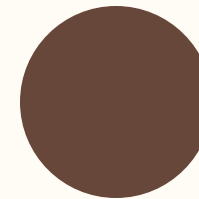


#D9B688

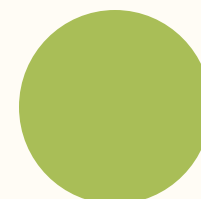
Image for Inspiration



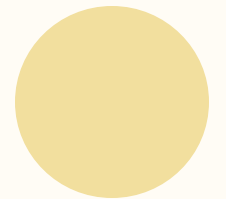
Accent



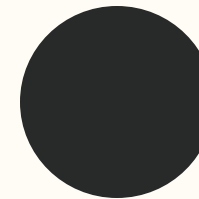
#68473B



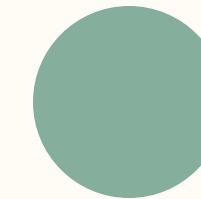
#A9BE57



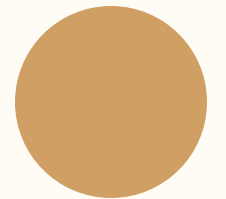
#F2DF9E



#282A29



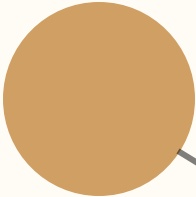
#86AE9C



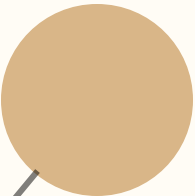
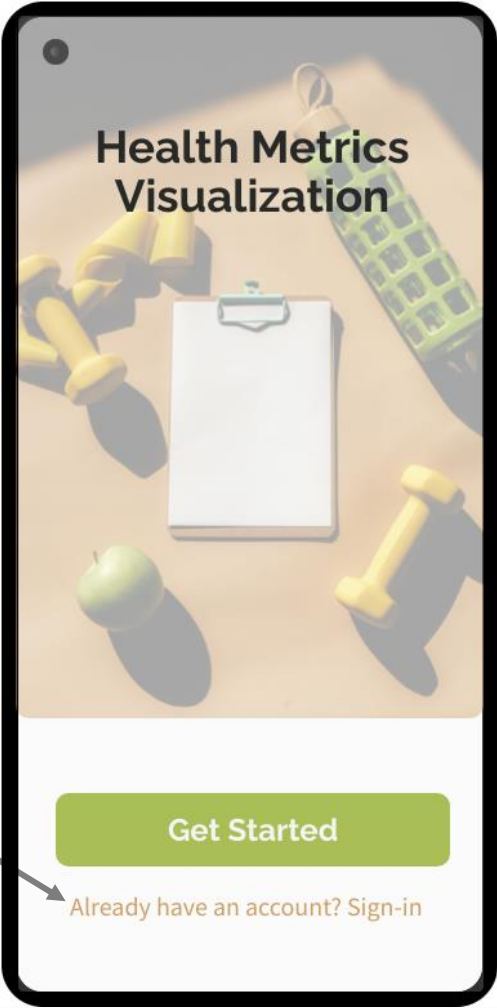
#D09F64

Application of Colors

Alternative
Action

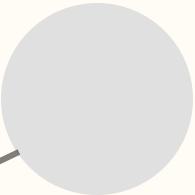


#D09F64



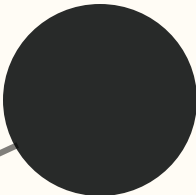
#D9B688

Background



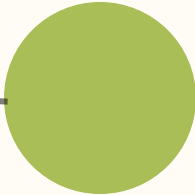
#E0E0E0

Background



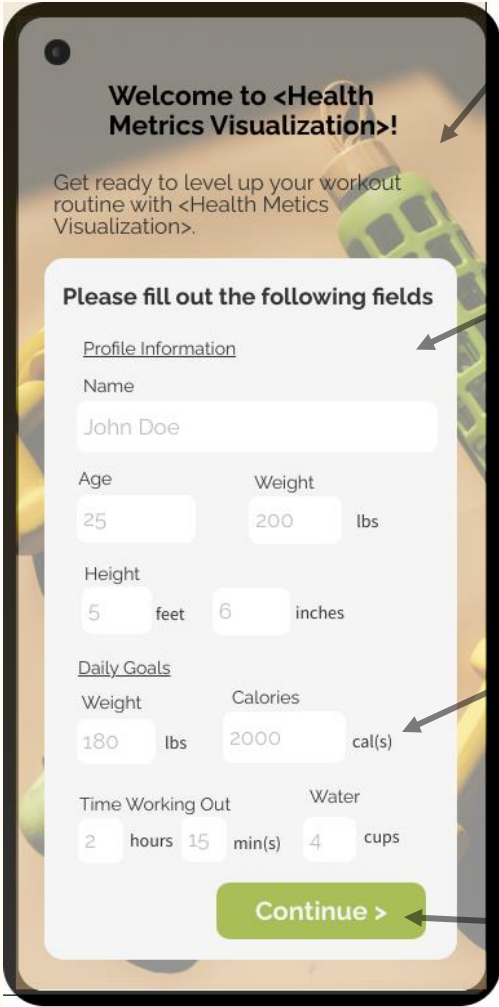
#282A29

Generic Text



#A9BE57

Call to Action

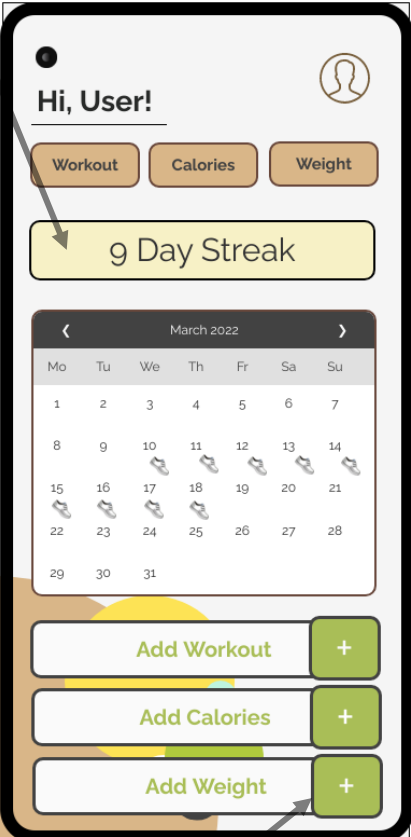


Color Scheme Application

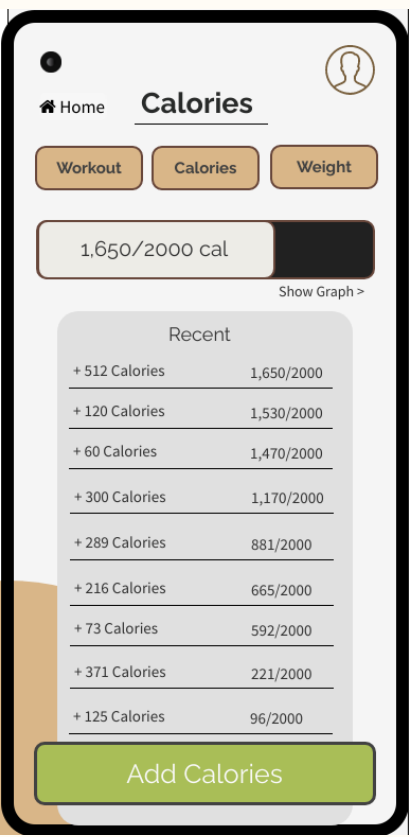
Check out the rest of the designs [here](#)



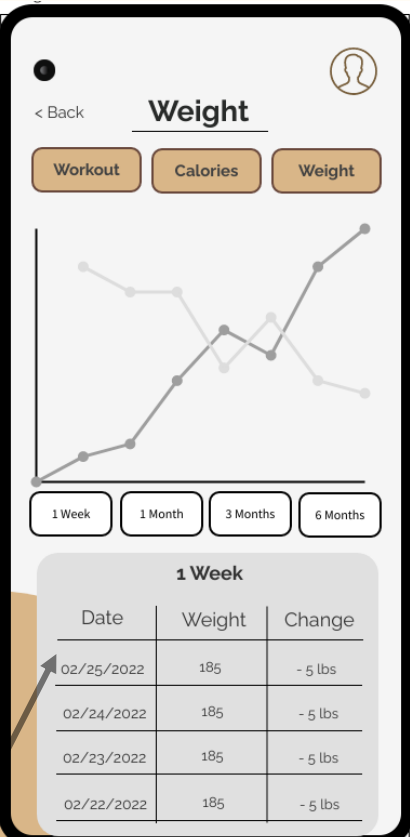
Bright Streak System



Dark Borders



Grayscale & Hierarchy



White Input Box

Grayscale

Colorblindness

True

Get ready to level up your workout routine with Health Metrics Visualization

Register

Name

John Doe

Age

Age

Height

Feet

Inches

Weight

lbs

Water

5

cup(s)

Calories

2000

Time Working Out

2.5

hour(s)

CREATE YOUR PROFILE >



Protanopes

Get ready to level up your workout routine with Health Metrics Visualization

Register

Name

John Doe

Age

Age

Height

Feet

Inches

Weight

lbs

Water

5

cup(s)

Calories

2000

Time Working Out

2.5

hour(s)

CREATE YOUR PROFILE >



Absence of the red-sensitive pigment in cones

Protanomaly

Get ready to level up your workout routine with Health Metrics Visualization

Register

Name

John Doe

Age

Age

Height

Feet

Inches

Weight

lbs

Water

5

cup(s)

Calories

2000

Time Working Out

2.5

hour(s)

CREATE YOUR PROFILE >



Not a complete loss of red sight, some red sensitivity may still exist to some degree

Deuteranopes

Get ready to level up your workout routine with Health Metrics Visualization

Register

Name

John Doe

Age

Age

Height

Feet

Inches

Weight

lbs

Water

5

cup(s)

Calories

2000

Time Working Out

2.5

hour(s)

CREATE YOUR PROFILE >



Sensitivity to green is reduced

Deuteranomaly

Get ready to level up your workout routine with Health Metrics Visualization

Register

Name

John Doe

Age

Age

Height

Feet

Inches

Weight

lbs

Water

5

cup(s)

Calories

2000

Time Working Out

2.5

hour(s)

CREATE YOUR PROFILE >



A milder form of deuteranopia

Tritanopes

Get ready to level up your workout routine with Health Metrics Visualization

Register

Name

John Doe

Age

Age

Height

Feet

Inches

Weight

lbs

Water

5

cup(s)

Calories

2000

Time Working Out

2.5

hour(s)

CREATE YOUR PROFILE >





Impaired blue and yellow vision



How Does It Actually Look?


Design

Profile



Home **Profile**


 Name John Doe 

Age 25  Weight 200 lbs 

Height 5 feet 6 inches 

Daily Goals

Water 4 cups  Calories 2000 cals 

Time Working Out 2 hours 15 min(s) 

Save Changes

and

App

Health Metrics Visual vWill

WELLNES S CALORIES WEIGHT **PROFILE**

Profile

Name

Age Weight

Height

Daily Goals

Water Calories

Time Working Out

SAVE CHANGES

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

The background is a light cream color, decorated with several abstract geometric elements. In the top left, there is a large brown circle with a yellow arc passing through it. To its right is a dark navy blue circle. Further right is a large yellow circle. In the center, there is a light grey circle. Below the brown circle is a small black arc. In the bottom left, there is a green circle with a brown arc passing through it. To its right is a small teal circle. In the bottom right, there is a small teal circle with a brown arc passing through it. There are also several other small arcs in various colors (yellow, green, brown, grey) scattered across the page.

Demo

The background is a light cream color, decorated with several abstract geometric elements. There are large circles in dark brown, dark navy blue, and a bright yellow. Smaller circles appear in light grey, teal, and olive green. Various curved line segments, or arcs, in colors like yellow, dark brown, teal, and grey are scattered across the page, some intersecting with the circles.

Thank You!

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