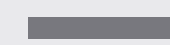# FITTNEY

RIT Spring 2019 | Interactive Design

Haena Lee

" Designing a system to deal with **Gym frustration** "

People in modern society, who are highly interested in their fitness and appearance, usually start exercise at the gym because of its convenience and affordability. However, many beginners are frustrated by the gym for many reasons. In this project, I will figure out difficulties that gym users experience and make a good user experience that helps them achieve their goals.

Problem to Solve

01

Most people use their mobile device just for listening to music during exercise. How can users actively use a mobile device as a fitness manager in the gym?

02

There are many useful fitness equipments in the gym but users don't know what to use first, how to use properly. How can users take advantage of gym machines?

03

Many users don't have a personal trainer that cost much so they quit exercise because of lack of motivation. How to motivate and encourage users to achieve their fitness goals in a cost effective way?

Goals

" Help beginners to take advantage of gym and acheive their goals "

01 Synergic

Do not disturb user's workout by unnecessary distraction and complex tutorial.

02 Functional

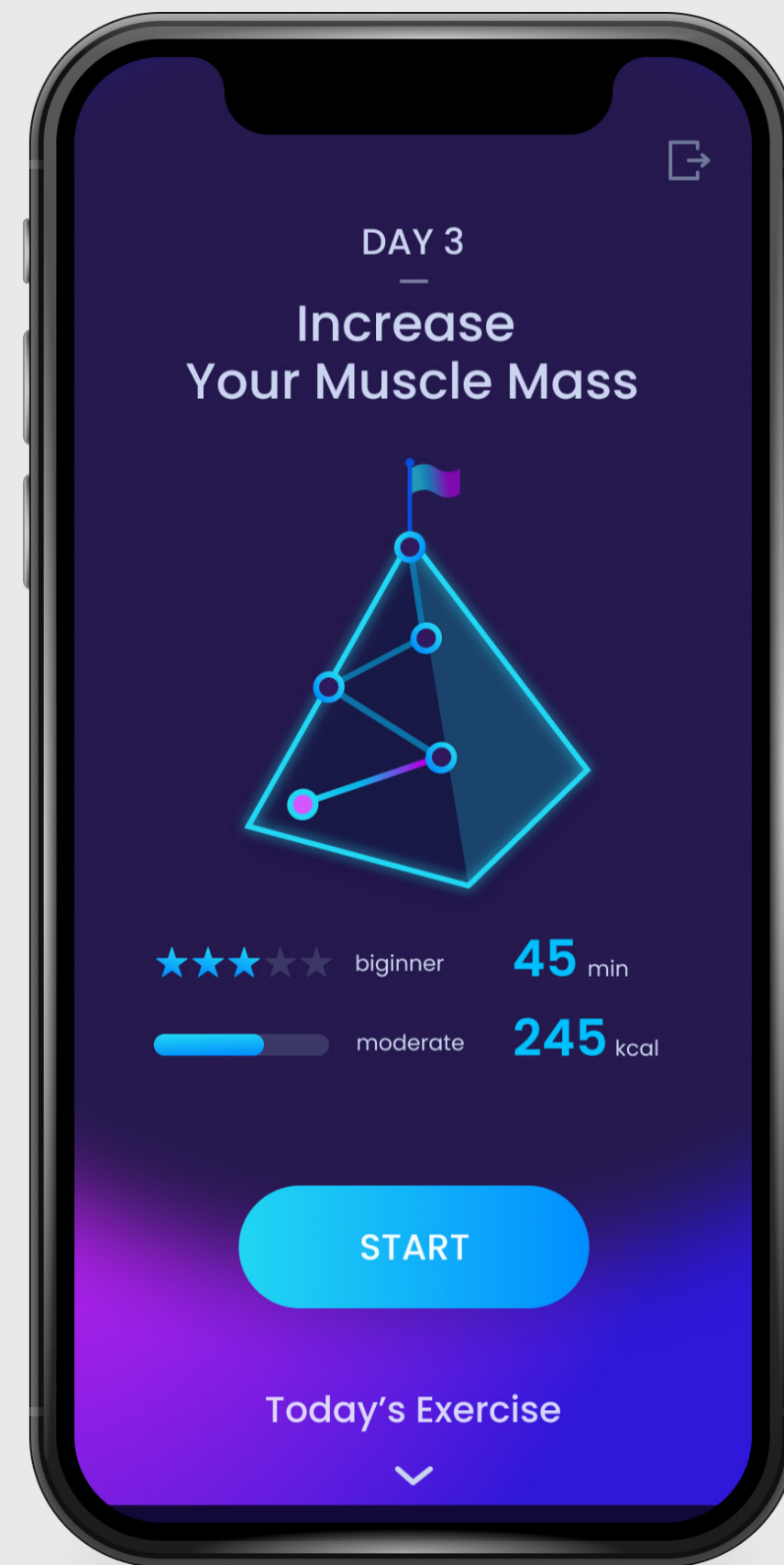Offer practical information and function in order that user can learn to use the gym effectively.

03 Encouraging

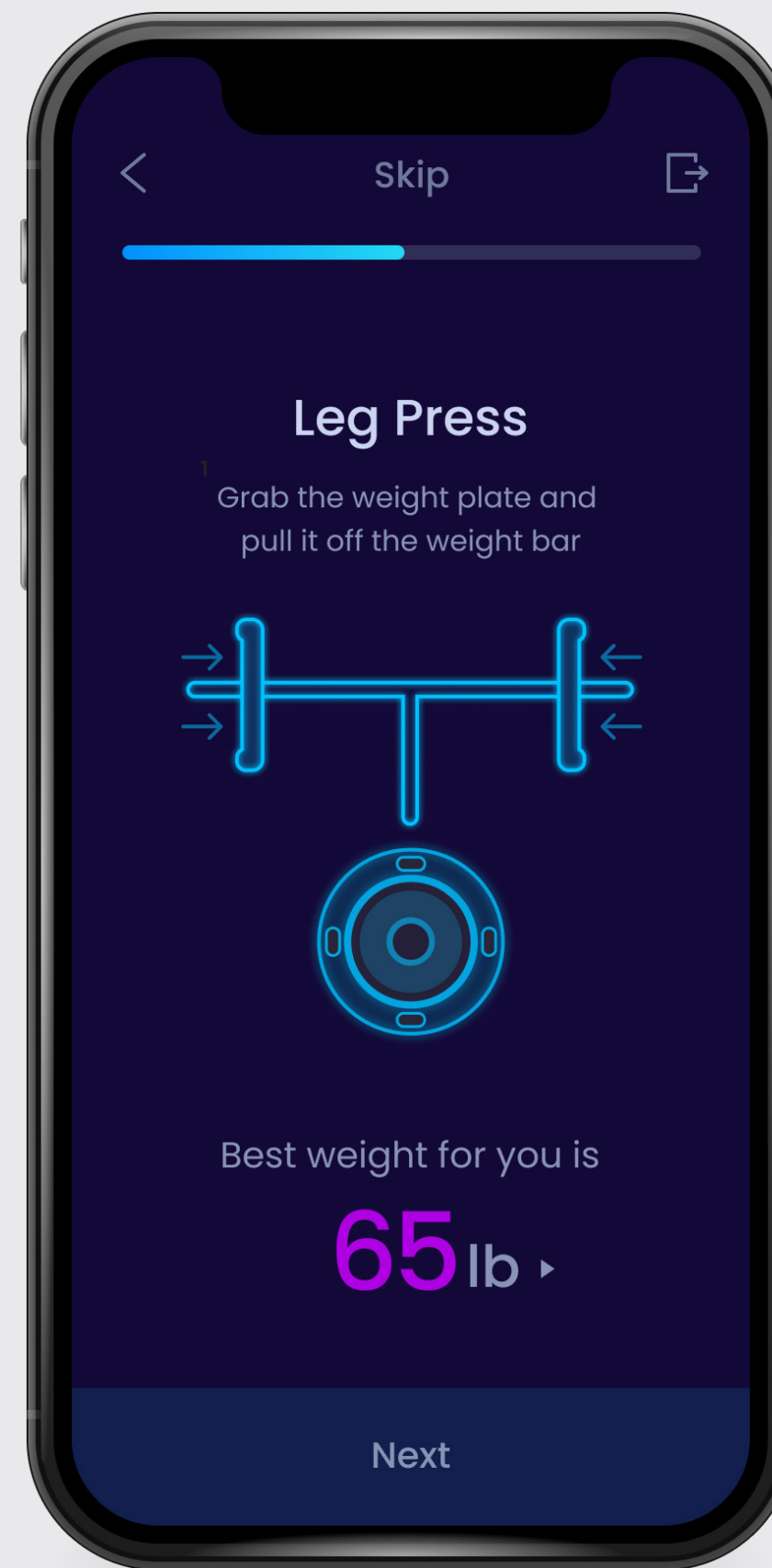Give continuous motivation and feasible goals to the user until they achieve goals
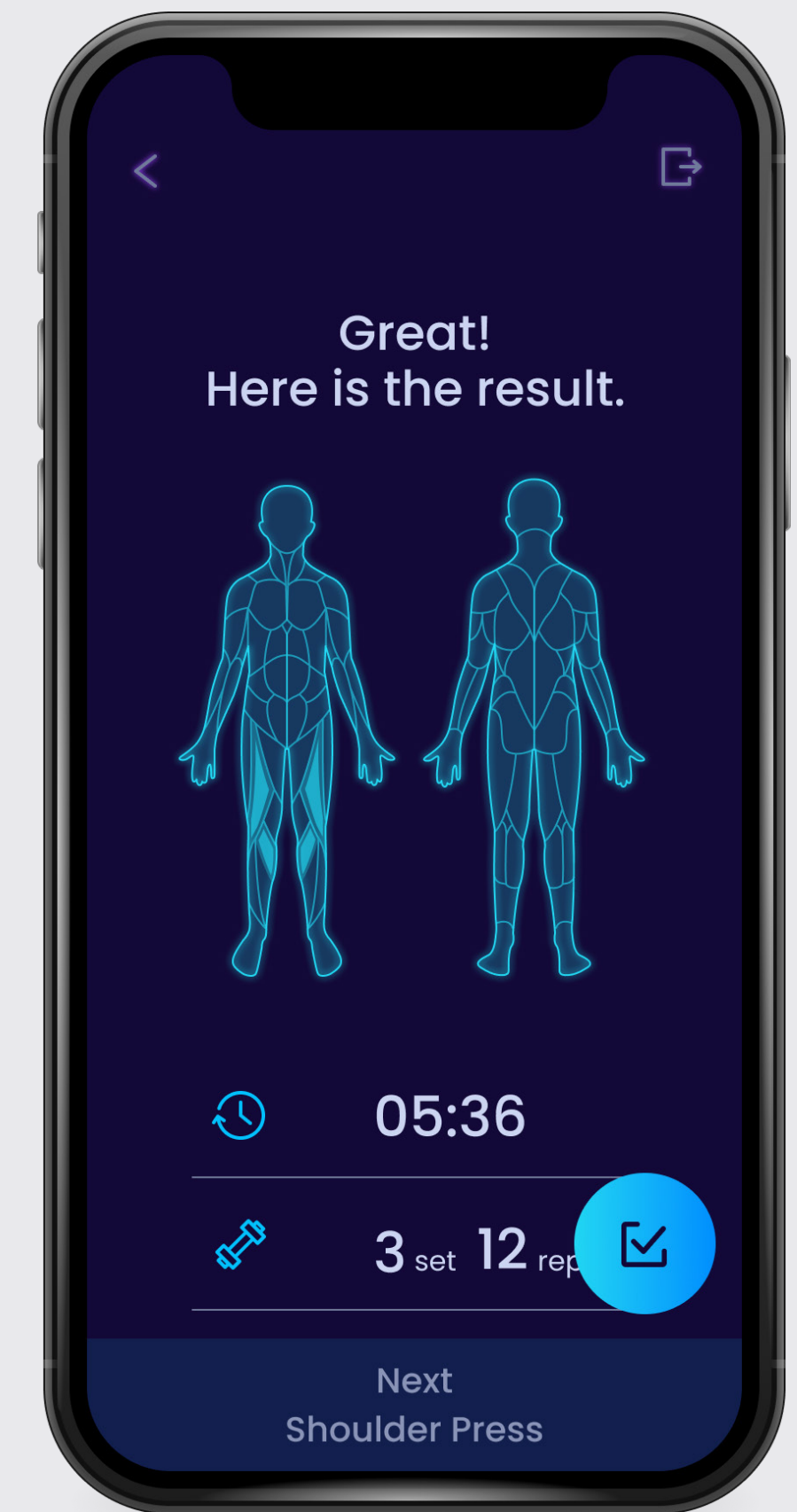
Design Solutions

Home Screen

Hi Haena,
Welcome back!

DAY 3
—
Increase
Your Muscle Mass

45 min   245 kcal

START

See how much you're improved

Today's Goal

DAY 3
—
Increase
Your Muscle Mass

★★★☆☆ biginner   45 min
moderate   245 kcal

START

Today's Exercise

Tutorial

Skip

Leg Press

Grab the weight plate and
pull it off the weight bar

Best weight for you is

65 lb ›

Next

Timer

oo:15

SET 1
10

Leg Press

Next
Shoulder Press

Workout Summary

Great!
Here is the result.

05:36

3 set   12 rep

Next
Shoulder Press

Design by Haena Lee

Research

Current Fitness System

Cognitive Mapping

Observation

Problem to Solve

Goals

Current Fitness System

Current Exercise Training Program
by Personal Trainer James Whelan, used with permission.

Distracting

Hard to figure out the entire process quickly.

- This content is full of text but it isn't organized with a hierarchy aesthetically and functionally.
- Titles don't stick out from the detail in the design aspect.
- The listing doesn't help for user to understand the entire process

Time-consuming

Time-consuming to understand and follow the process.

- This content contains lots of fitness terms so it's difficult to understand.
- A user has to see the direction first, find the link second and open link in a new window.

Unfriendly

Unkind information for the beginner

- The content needs a kind of legend for some abbreviation.
- In case of Active Rest Day, beginners would need some direction because they don't know what to do.

Design by Haena Lee

Cognitive Mapping

| Read a today's entire direction | Warm UP | Work out #1 | Work out #2 | Work out #3 | Cool Down |

Know this exercise? — Yes / No

Click Video Link

Watch, Repeat, Follow

Know this exercise? — Yes / No

Click Video Link

Watch, Repeat, Follow

Know this exercise? — Yes / No

Click Video Link

Watch, Repeat, Follow

Know this exercise? — Yes / No

Click Video Link

Watch, Repeat, Follow

Know this exercise? — Yes / No

Click Video Link

Watch, Repeat, Follow

unnecessary, excessive steps on each exercise!

This may make users lose thier interest

Design by Haena Lee

Observation

I went to RIT gym for the first time and did a fly on the wall observation. I sometimes exercise in my home with Youtube. Therefore, I don't have much experience and I don't know how to use a gym.

Pain point

- As a beginner, it was hard to know what exercises to do in order.
- There was no tutorial of fitness machines for beginners.
- I can't easily find which body part this machine was intended for?
- I didn't know the proper weight for me when I use a machine.
- Some equipment I want to try wasn't empty for a long time.

Findings

- Most people gathered on a treadmill and bike area.
- Many people on the treadmill and bike area didn't try to use other machines.
- There is an empty area because users don't know how to use the machines.
- Most people are wearing earphones and headphones
- Mostly, people used a cell phone for music but some people used it for weight exercise.

Interviews

I interviewed 4 people with a different
background who go to the gym regularly.
I got some valuable insights from them.

This is their brief bio.
Frank (store manager)
Gene (patient care aide)
Hana (research assistant professor)
Min-Hye (international student)

Devices

Hana and Min-Hye use a smartphone
during exercise, not for workout purposes
but entertaining one during exercise.

Frank uses a smartwatch for fitness
purposes because it is wearable and
convenient to work out.

Information Source

Three of them get information about fitness and
gym by themselves without expert's help.

Achivement

Motivation and habit are important factors
to achieve their goals.

User Mapping

Behavioral Profile

User Story

Journey Map

User Flow

Beginer's
Behavioral Profile

*"I frequently use apps whenever I want to get
fitness information and make a schedule"*

Beginners just started the workout for the purpose of getting
in shape or watching their weight. They feel hopeful and but
overwhelmed because they don't have much knowledge
about fitness and the gym. They also fight laziness to achieve
their goals. Therefore, they want to get the information they
need, make a effective and reasonlable schedule and to be
motivated to continue their workout.

Activity

Moderate

Reliance

High

Mobile Device Use

70%

Design by Haena Lee
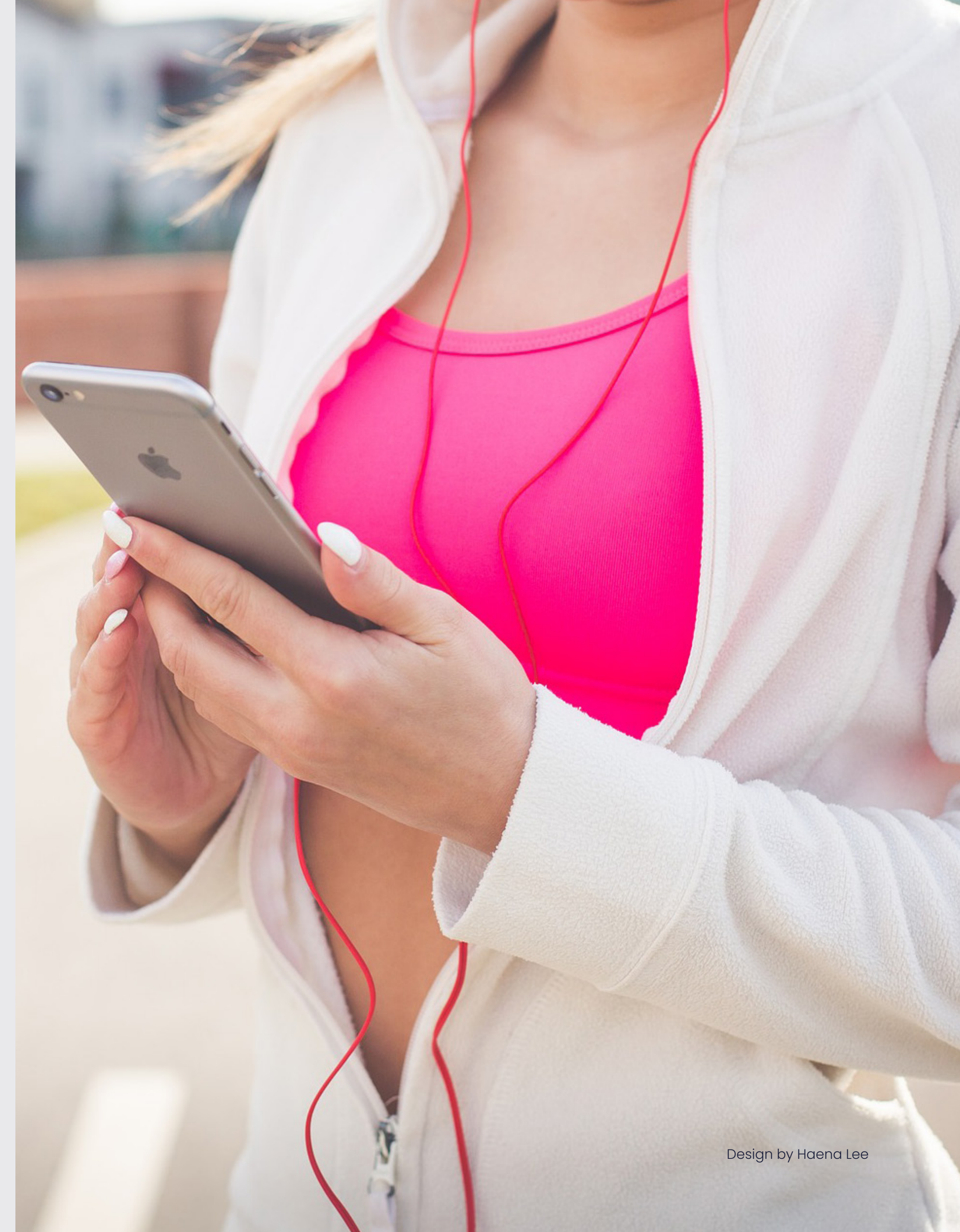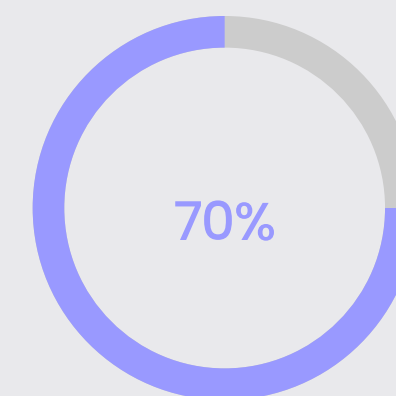
Journey Map
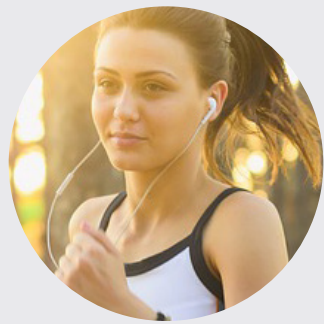
Kelley Brown (21)

—

It's a new year. Kelley decided to lose belly fat. Due to the lack of budget, she chooses to go to the gym in the college. However, she is frustrated because she doesn't know what to start and which exercise is good for her purpose.

HOPEFUL

FEEL EASY
SATISFIED

FEEL SETTLED
PASSIONATE

DISCOURAGED
STRESSFUL

PROUD
JOYFUL
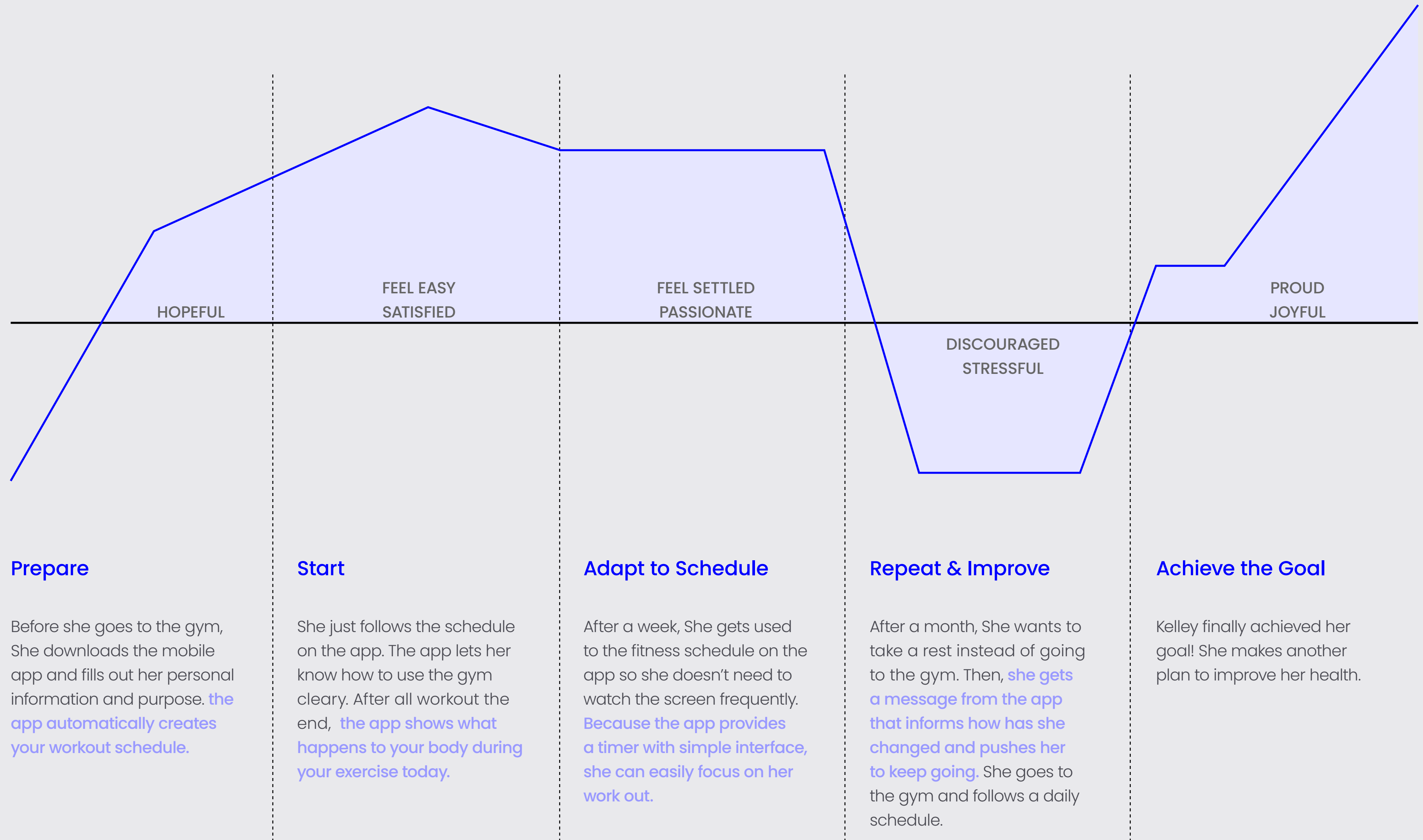
Prepare

Before she goes to the gym, She downloads the mobile app and fills out her personal information and purpose. the app automatically creates your workout schedule.

Start

She just follows the schedule on the app. The app lets her know how to use the gym cleary. After all workout the end, the app shows what happens to your body during your exercise today.

Adapt to Schedule

After a week, She gets used to the fitness schedule on the app so she doesn't need to watch the screen frequently. Because the app provides a timer with simple interface, she can easily focus on her work out.

Repeat & Improve

After a month, She wants to take a rest instead of going to the gym. Then, she gets a message from the app that informs how has she changed and pushes her to keep going. She goes to the gym and follows a daily schedule.

Achieve the Goal

Kelley finally achieved her goal! She makes another plan to improve her health.

User Story

01 Enthusiastic user

As a musical singer who want to get in good shape, I want to know the proper weight at my level and track my record so that I can move forward.

02 Inactive user

I'm a college student and not a big fan of exercise but I want to exercise regularly for my health. I need something to push me so that I can go to the gym regularly.

03 Shy user

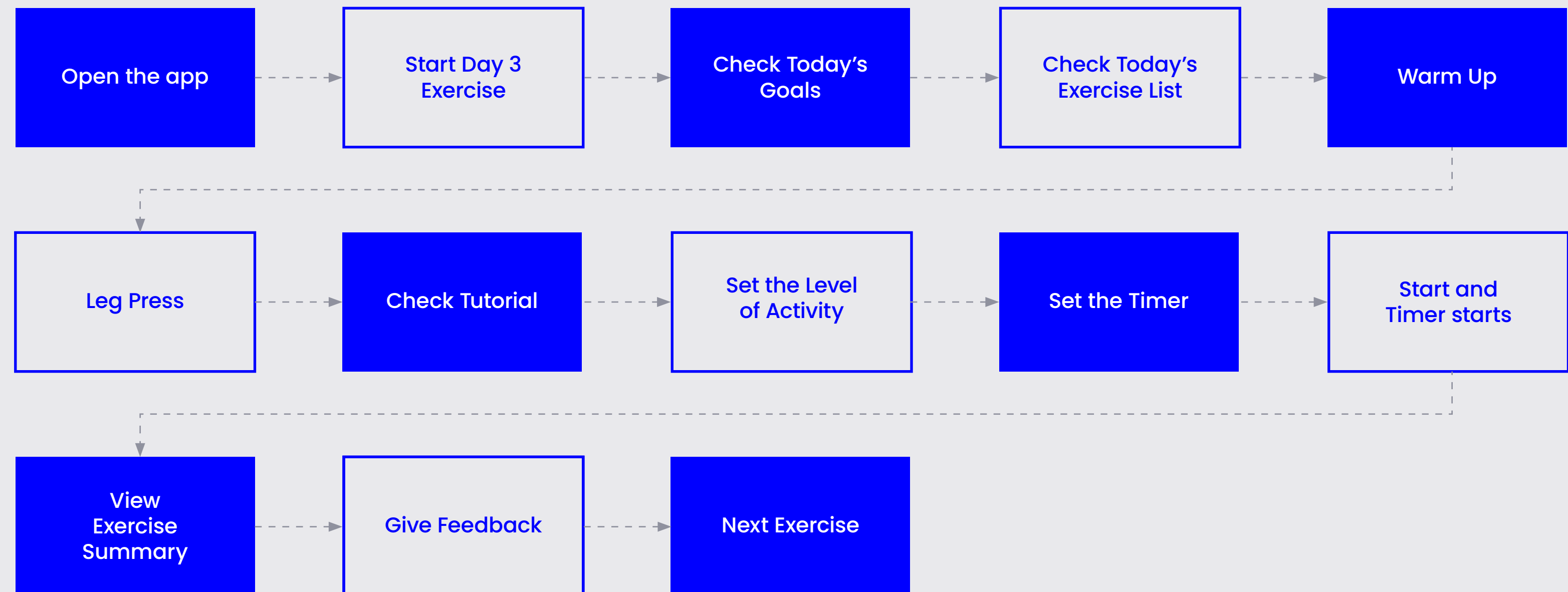I always overwhelmed whenever I go to the gym. I want to get a good schedule and tutorial so that I don't need to wander around or ask for help to someone at the gym.

Shy User's Flow

Shy users n day 3 still feel overwhelmed at the gym and not familiar to use the gym yet. The biggest situation they want to avoid is roaming around the gym because they don't know what to do next and hesitate to ask someone to help.

After they enter the gym, they put earphones on, opens the app, and then just press the start button and follow the step. This will help shy users feel comfortable and boost their confidence until they get used to the gym.

```
┌──────────────┐      ┌──────────────┐      ┌──────────────┐      ┌──────────────┐      ┌──────────────┐
│ Open the app │ ---> │ Start Day 3  │ ---> │Check Today's │ ---> │Check Today's │ ---> │   Warm Up    │
│              │      │  Exercise    │      │    Goals     │      │Exercise List │      │              │
└──────────────┘      └──────────────┘      └──────────────┘      └──────────────┘      └──────────────┘

┌──────────────┐      ┌──────────────┐      ┌──────────────┐      ┌──────────────┐      ┌──────────────┐
│  Leg Press   │ ---> │Check Tutorial│ ---> │Set the Level │ ---> │Set the Timer │ ---> │  Start and   │
│              │      │              │      │ of Activity  │      │              │      │ Timer starts │
└──────────────┘      └──────────────┘      └──────────────┘      └──────────────┘      └──────────────┘

┌──────────────┐      ┌──────────────┐      ┌──────────────┐
│    View      │ ---> │Give Feedback │ ---> │Next Exercise │
│  Exercise    │      │              │      │              │
│  Summary     │      │              │      │              │
└──────────────┘      └──────────────┘      └──────────────┘
```

Design by Haena Lee

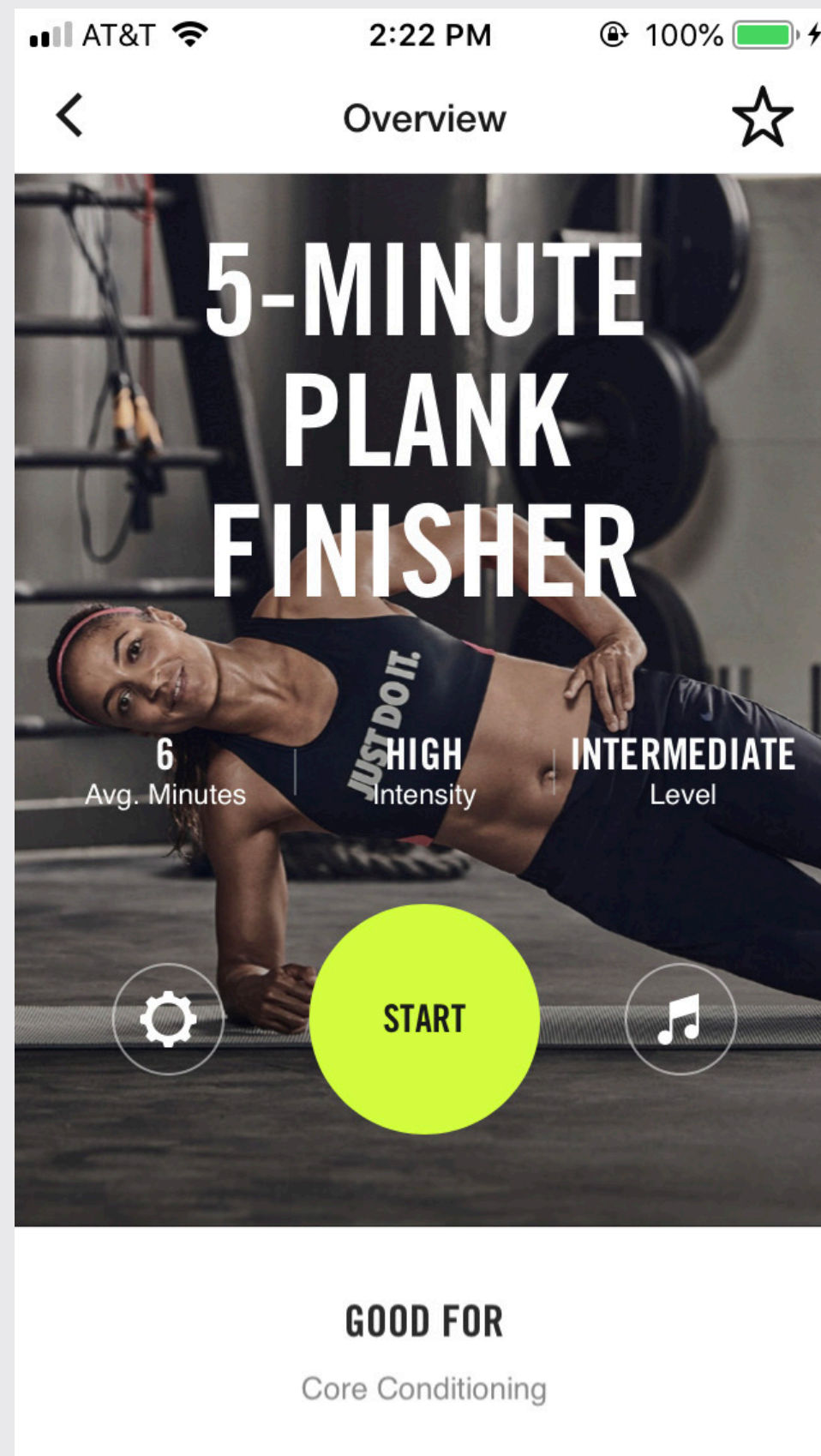# Competitive Analysis
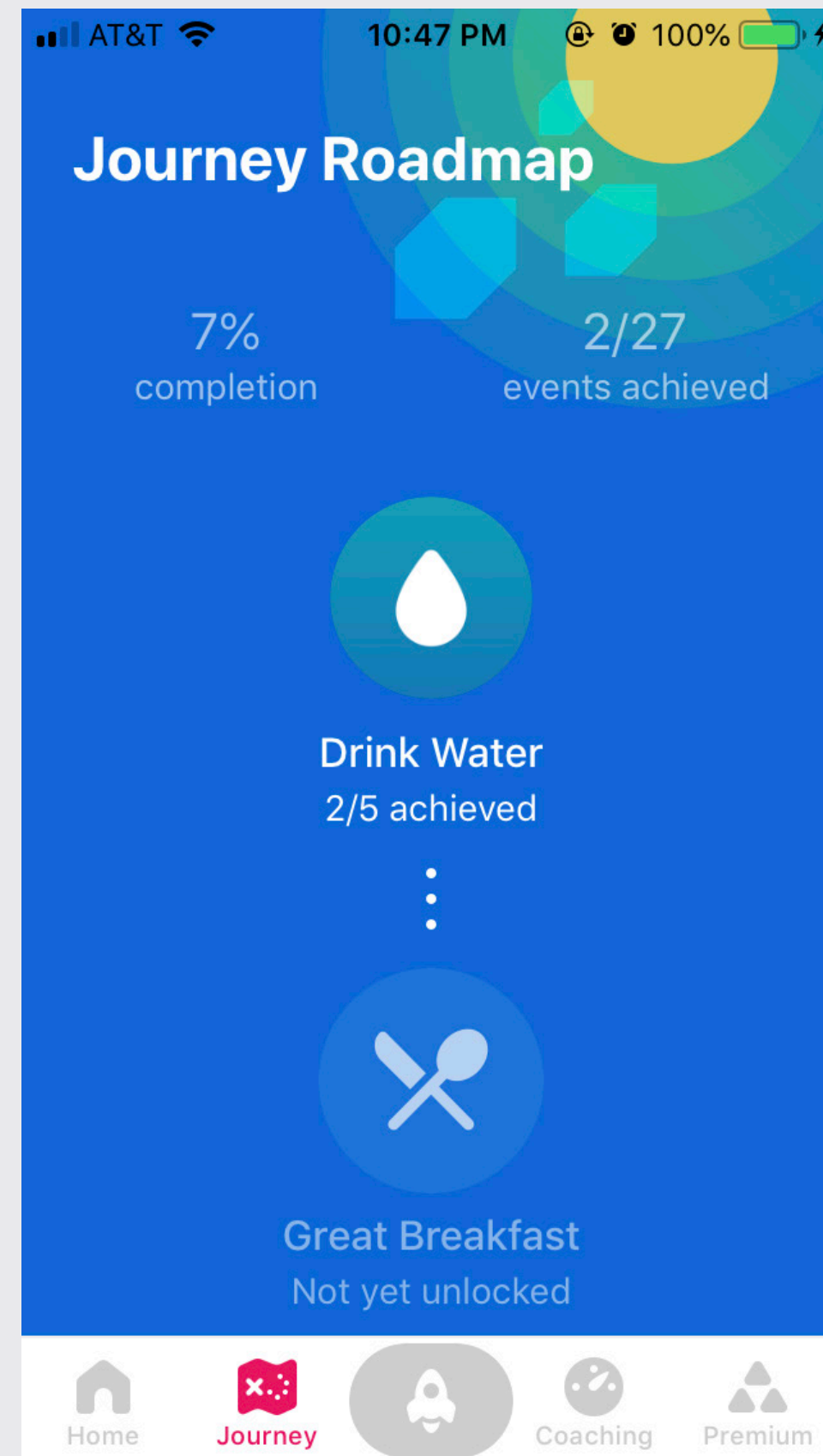
Competitive Apps

-Today's Goals

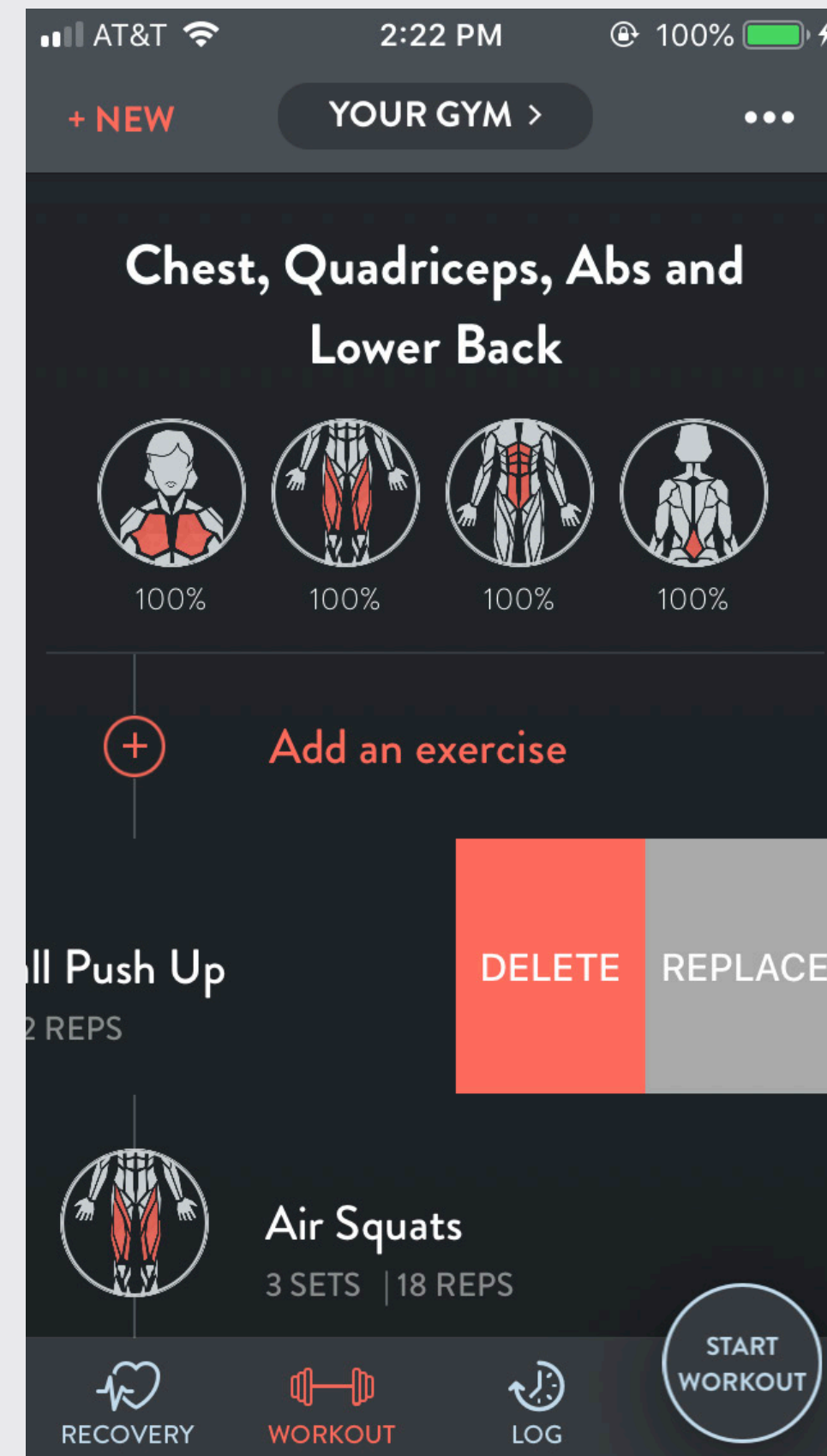-Workout Tutorial

-Timer

How might we...?

Today's Goals

Nike Training


Fabulous

Fitbod

Today's goal shows and schedule what users will achieve that day.

—

Nike Training has a nice visual hierarchy with an overall achromatic color, desaturated photo and lime point color. Fabulous which is goal achievement app, has a good and simple infographic that shows steps easily. In Fitbod, users can delete or replace a workout and make a customizable plan by swiping

Workout Tutorial
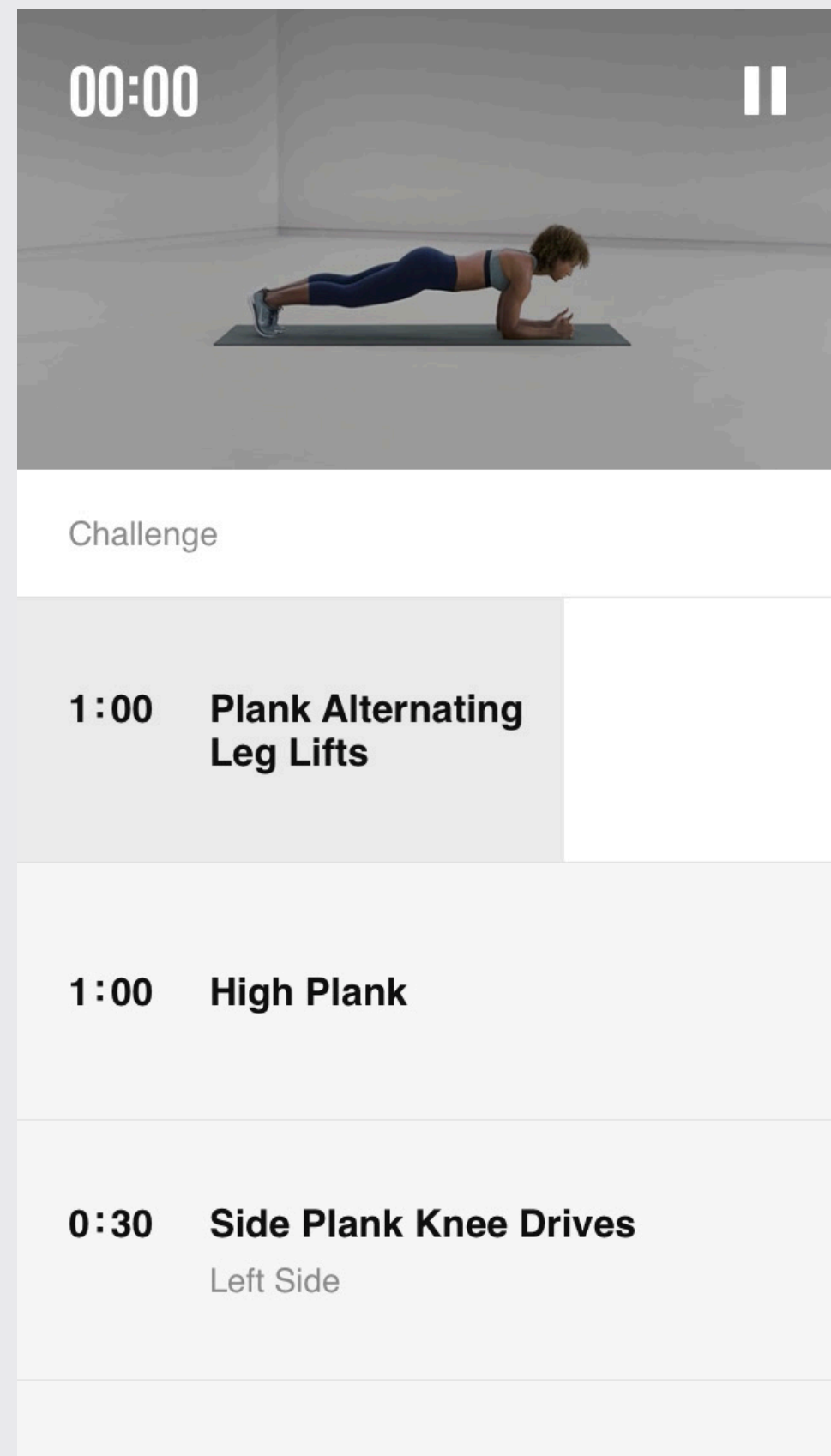
Nike Training
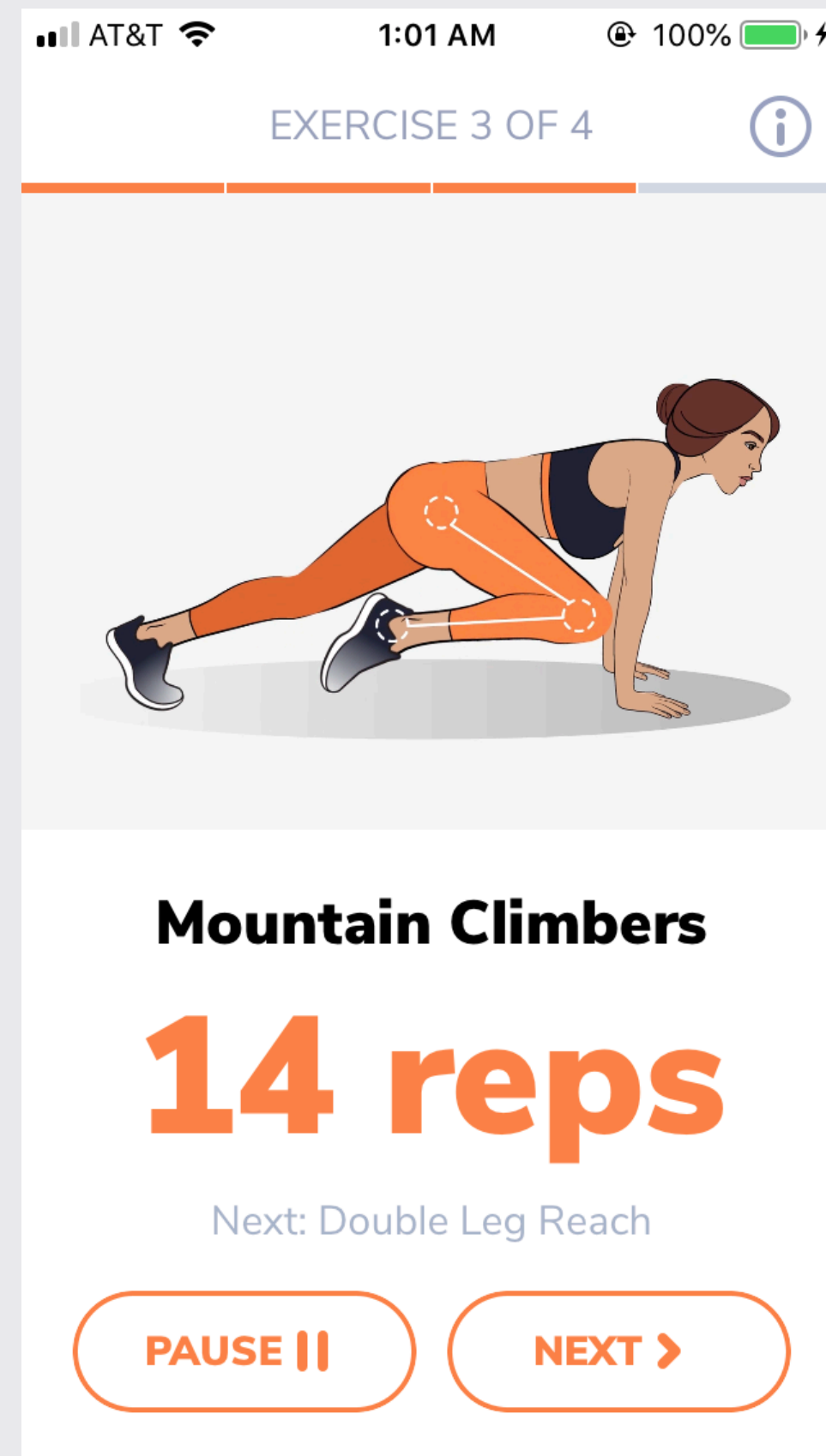
BetterMe
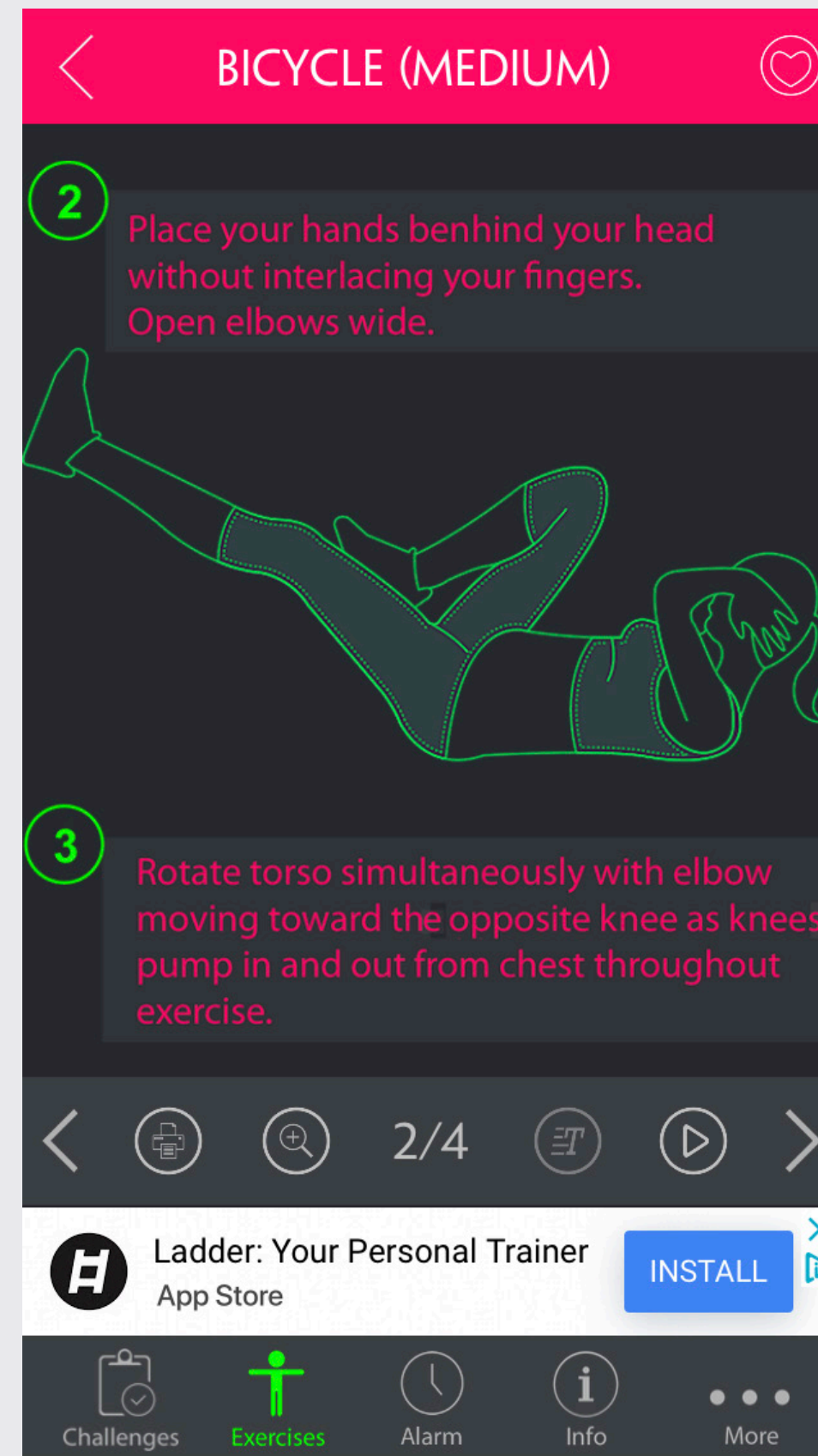
30DeayFitness

Workout Tutorial shows how to do exercise and how to use a machine in the gym. This is the most important function that the app should pay attention to the interface.

—

Nike Training is the best app that I don't need to touch much during exercise. It shows tutorial video quickly and starts the workout. BetterMe has an animation tutorial with good illustration but doesn't have a timer so users need to cheek their number by themselves. 30DayFitness has a simple graphic direction and explanation which doesn't need to play video.

Timer
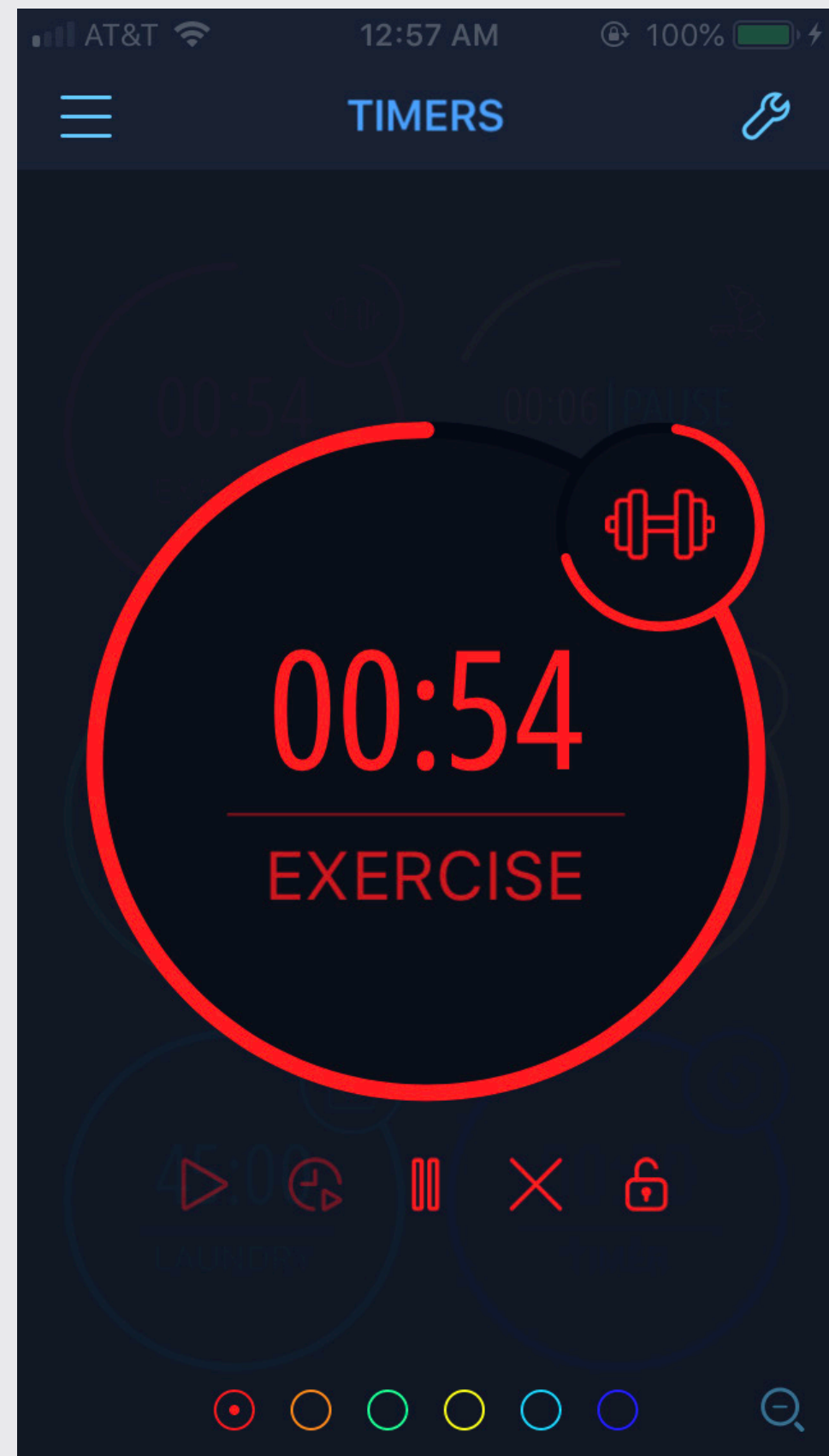
MultiTimer
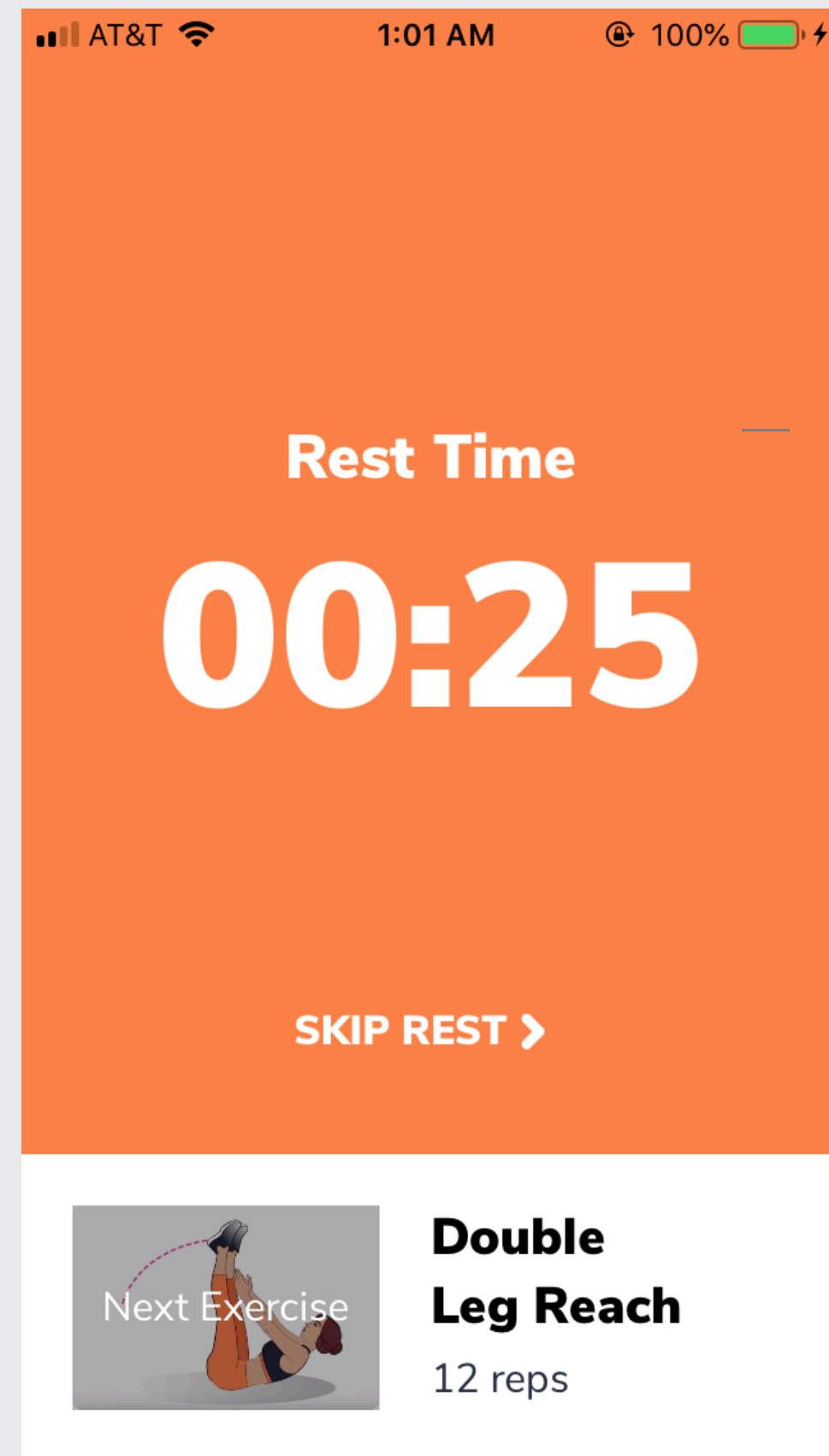
BetterMe
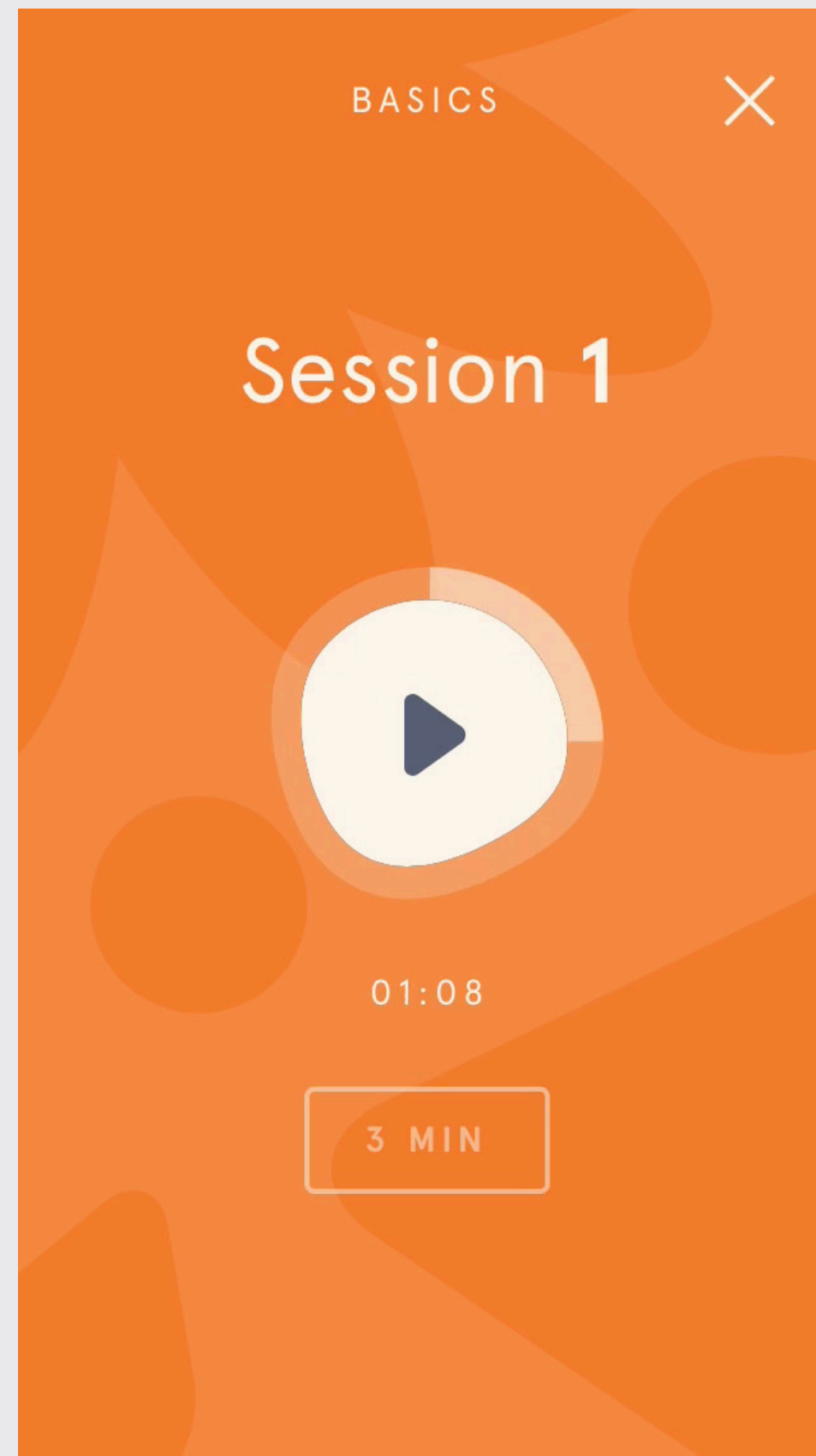
Headspace

Timer appears when users start the workout. Because users usually use this at a distance, it is important to make the interface big enough and not complex.

—

MultiTimer is easy to figure time with a big ring that shows time and small ring that shows contents. BetterMe has a heighly simple interface. It offers timer only in the rest time and lets users know the next exercise. Headspace, which is a meditation app, can set a timer easily and control time just by pressing hard the screen.

How might we...?

How might we make the process not disturbing and focus on exercise?

Make interface big and simple especially during the workout process.

Put the timer during the workout and do not put many contents and text.

Make minimal screen mode that can user rely on voice.

How might we educate users about how they use the gym machines effectively?

Provide proper weight and workout time for each user.

Use infographic for teaching how to set a machine.

Use simple animation for teaching the right pose.

How might we make the process not disturbing and focus on exercise?

Put encouragement screen whenever before user go to the next exercise?

Make an illustration and this encourages users during the exercise?

Put voice encouragement during the workout?
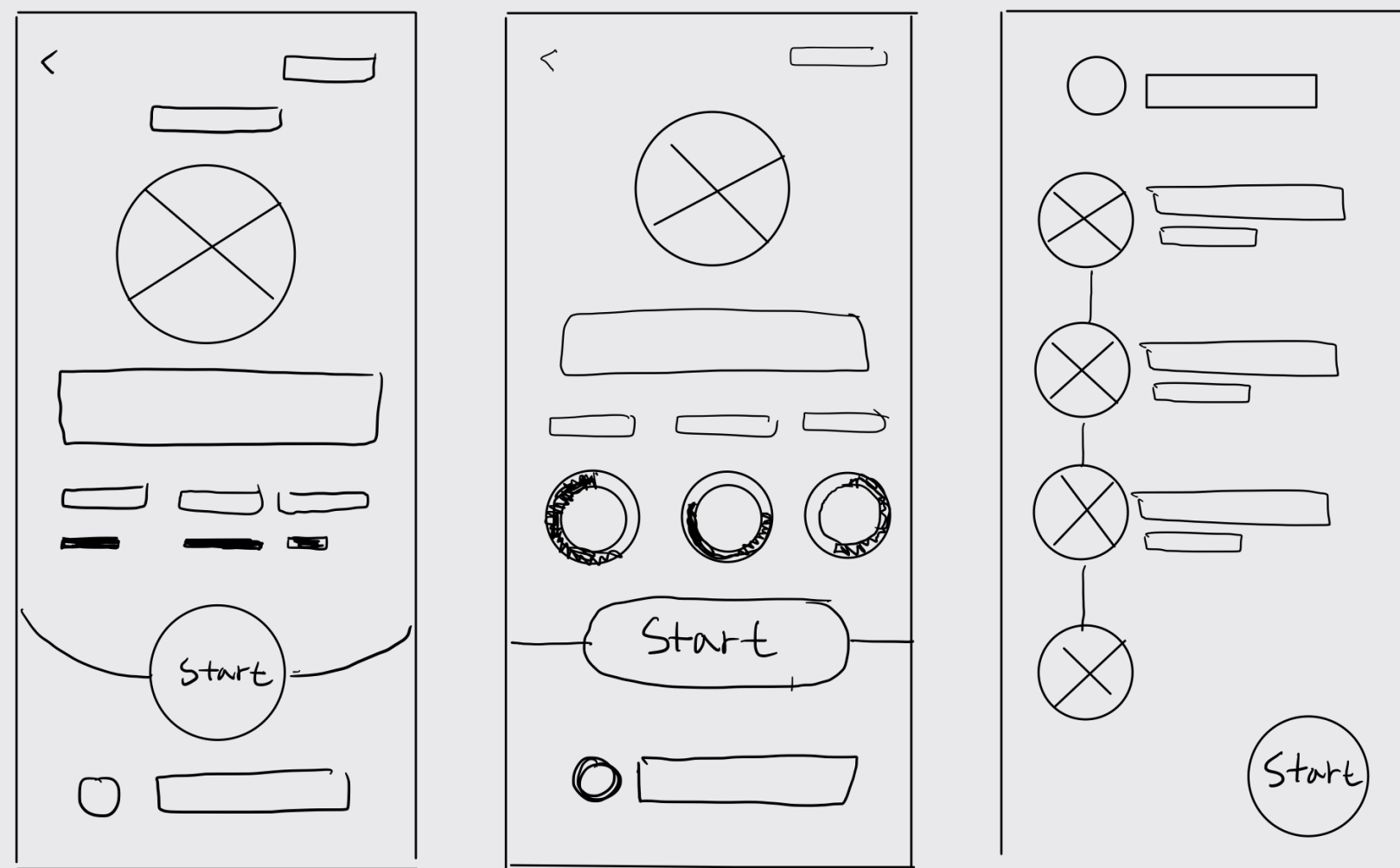
Visual Exploration

Sketches

Today's Goals

Timer

Exercise Manual

00:00

set 1

12

Set 1

10

00:15

Start

Start

Next

Next Exercise

STEP 1

STEP 1

START

Skip

Start
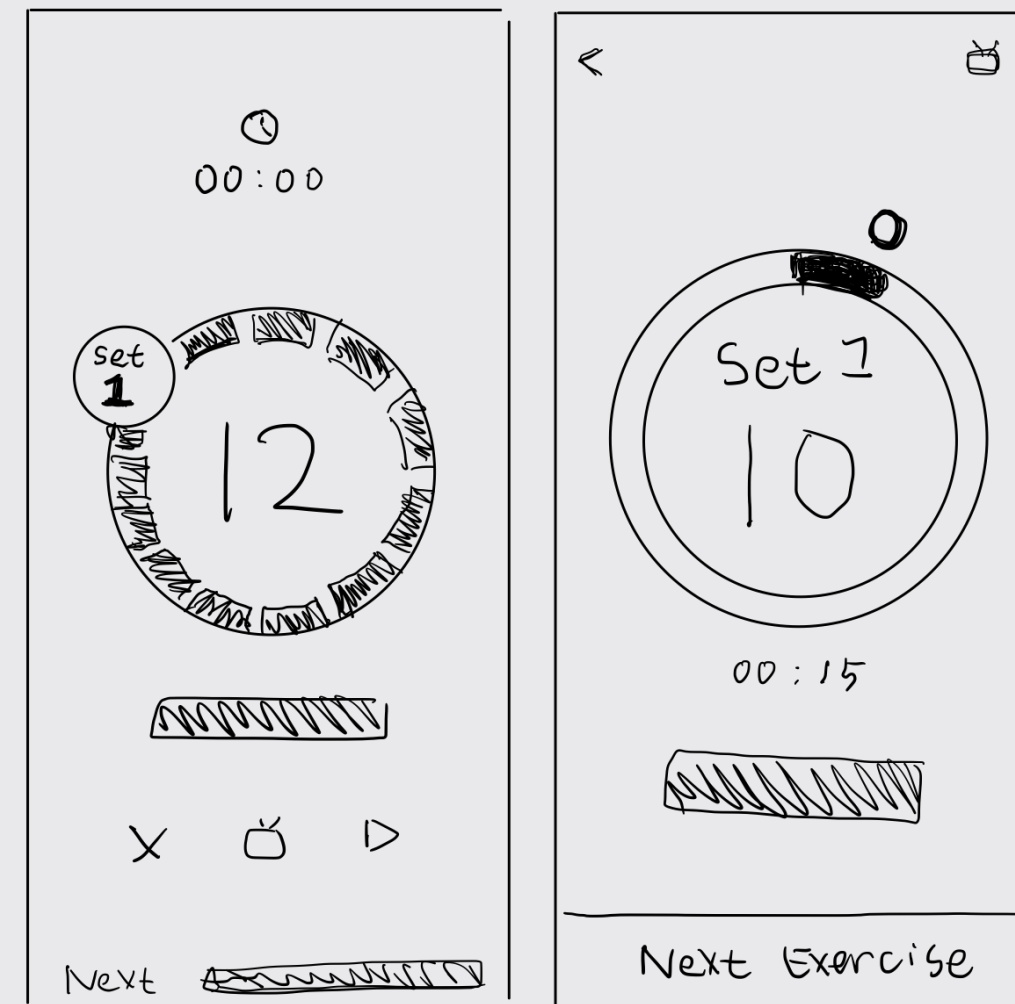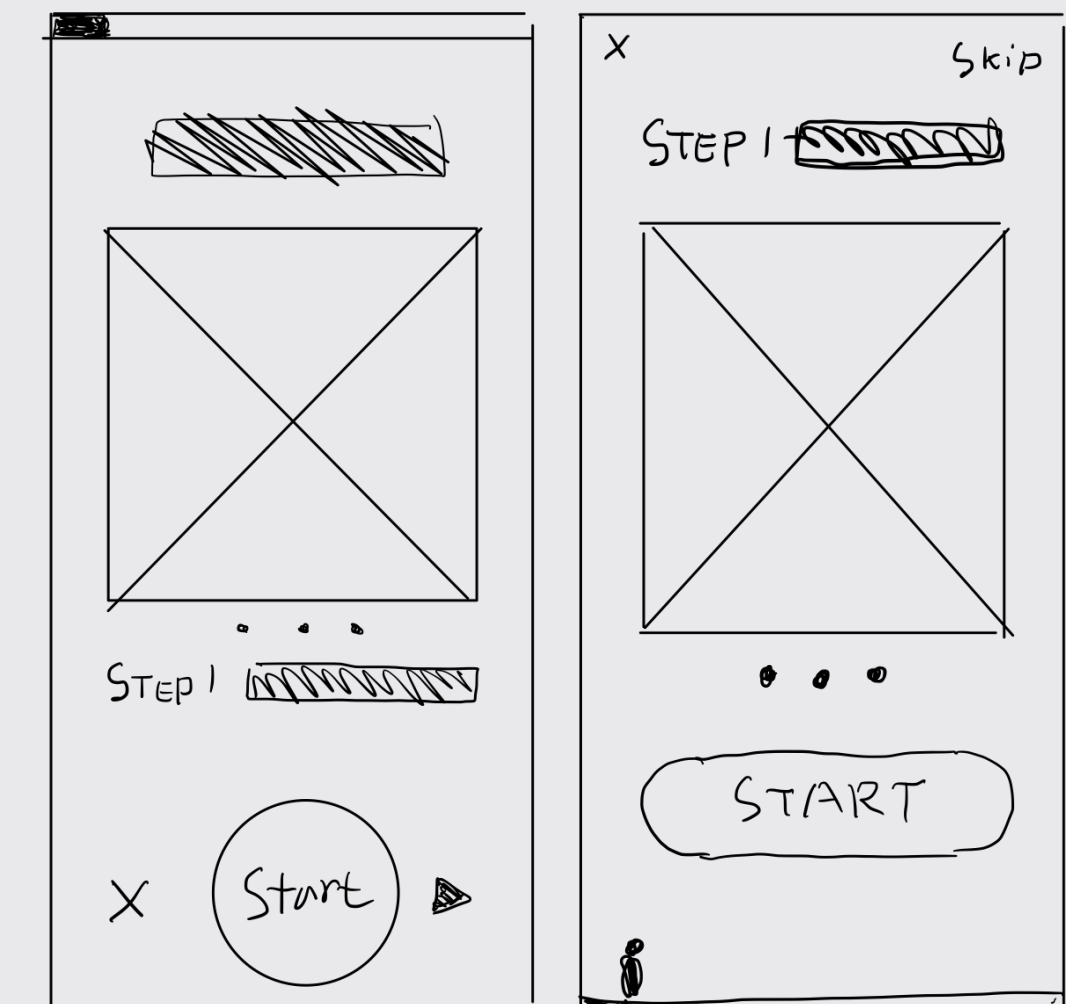
Wireframe

1. Today's goal
2. Today's workout (scroll down)
3. Progress
4. Tutorial (Video or Illustration)
5. Overall workout duration
6. Cancle workout
7. Show tutorial again
8. Setting

Screen 1:

9:41

<   Skip

Day 3

Increase
Your Muscle Mass

1°	5°	45	245
Level	Intensity	Minutes	Calories

Start

Shedule

Today's goal

Screen 2:

9:41

<   Skip

Leg Press

Let's set the machine

Best weight for you is

65lb

Next

Tutorial

Screen 3:

9:41

⊠ oo:15

SET
1

10

Leg Press

✕   ⊠   ⊠

Next
Shoulder Press
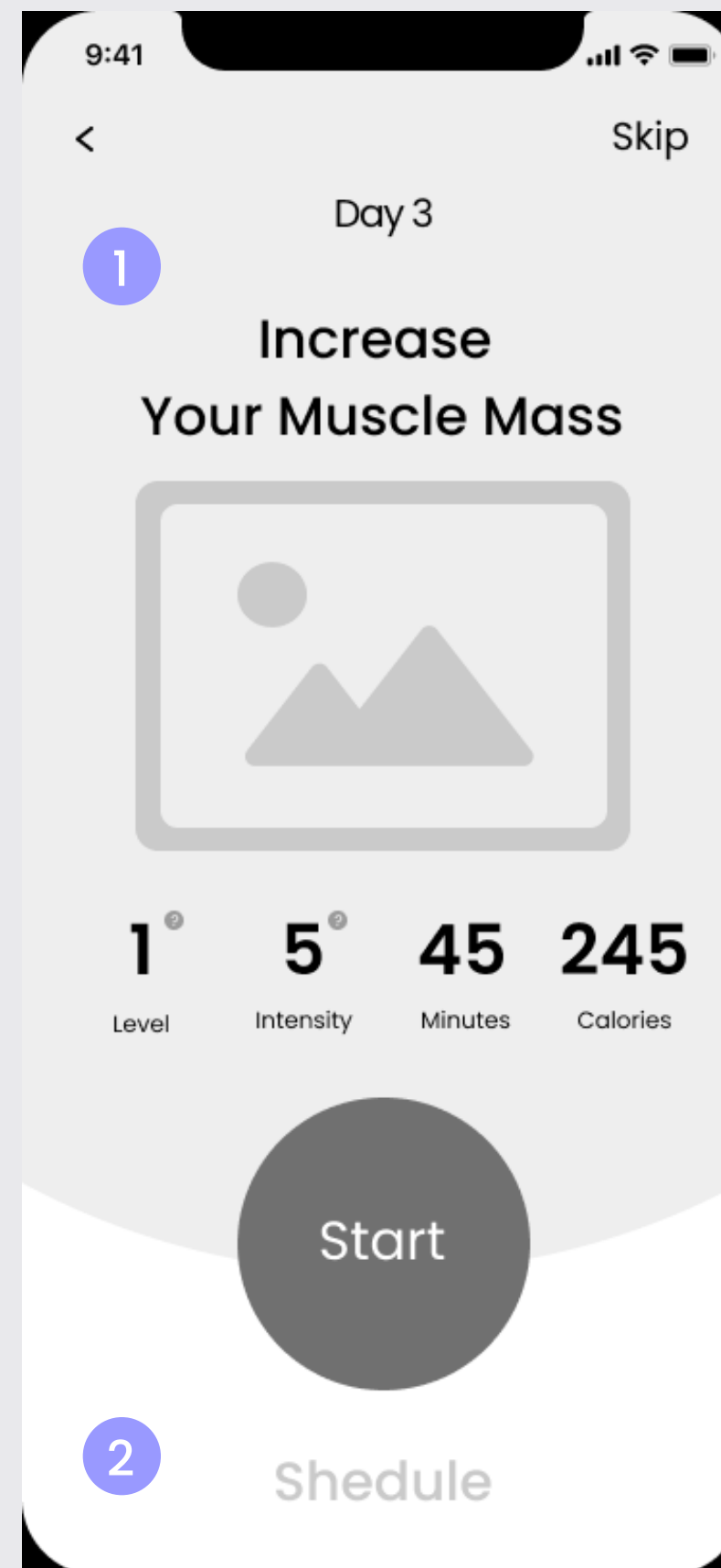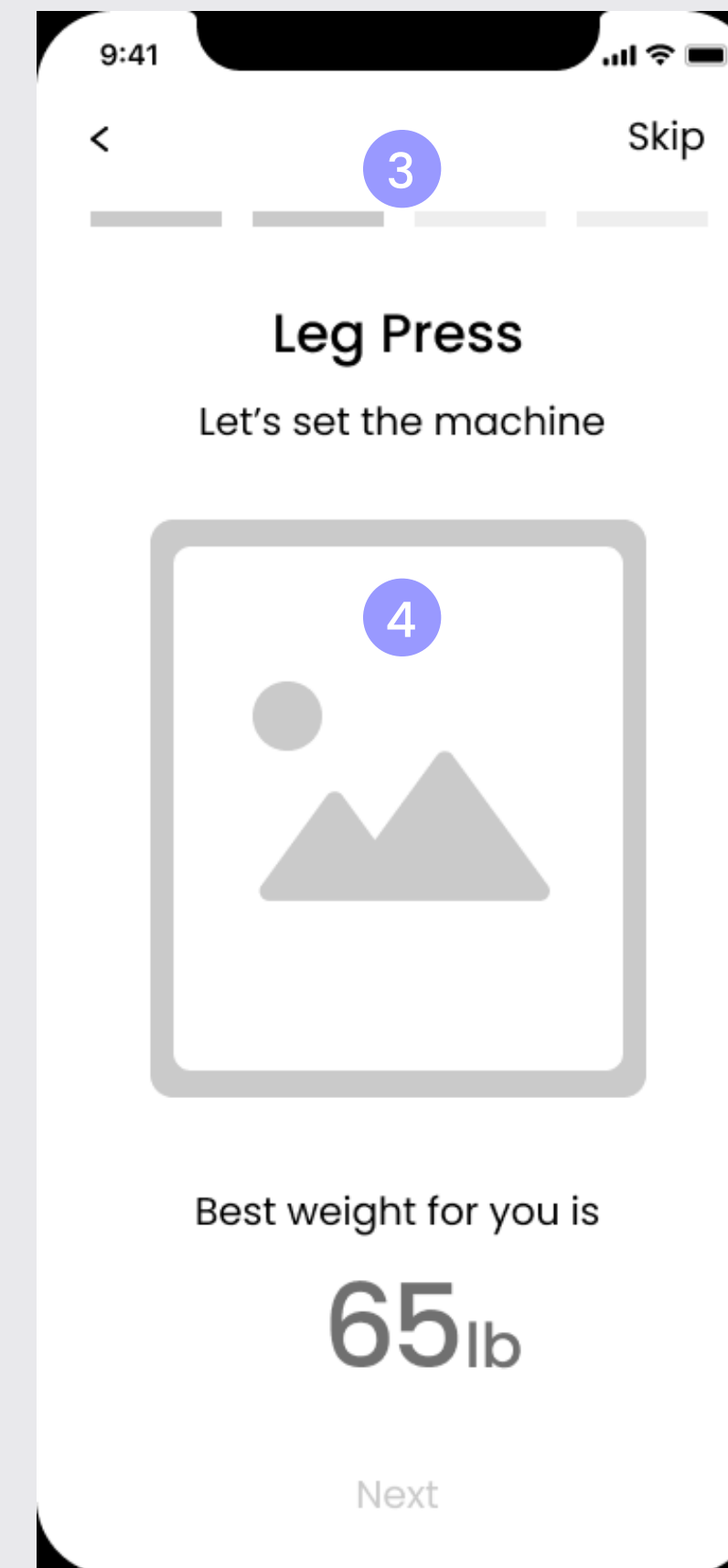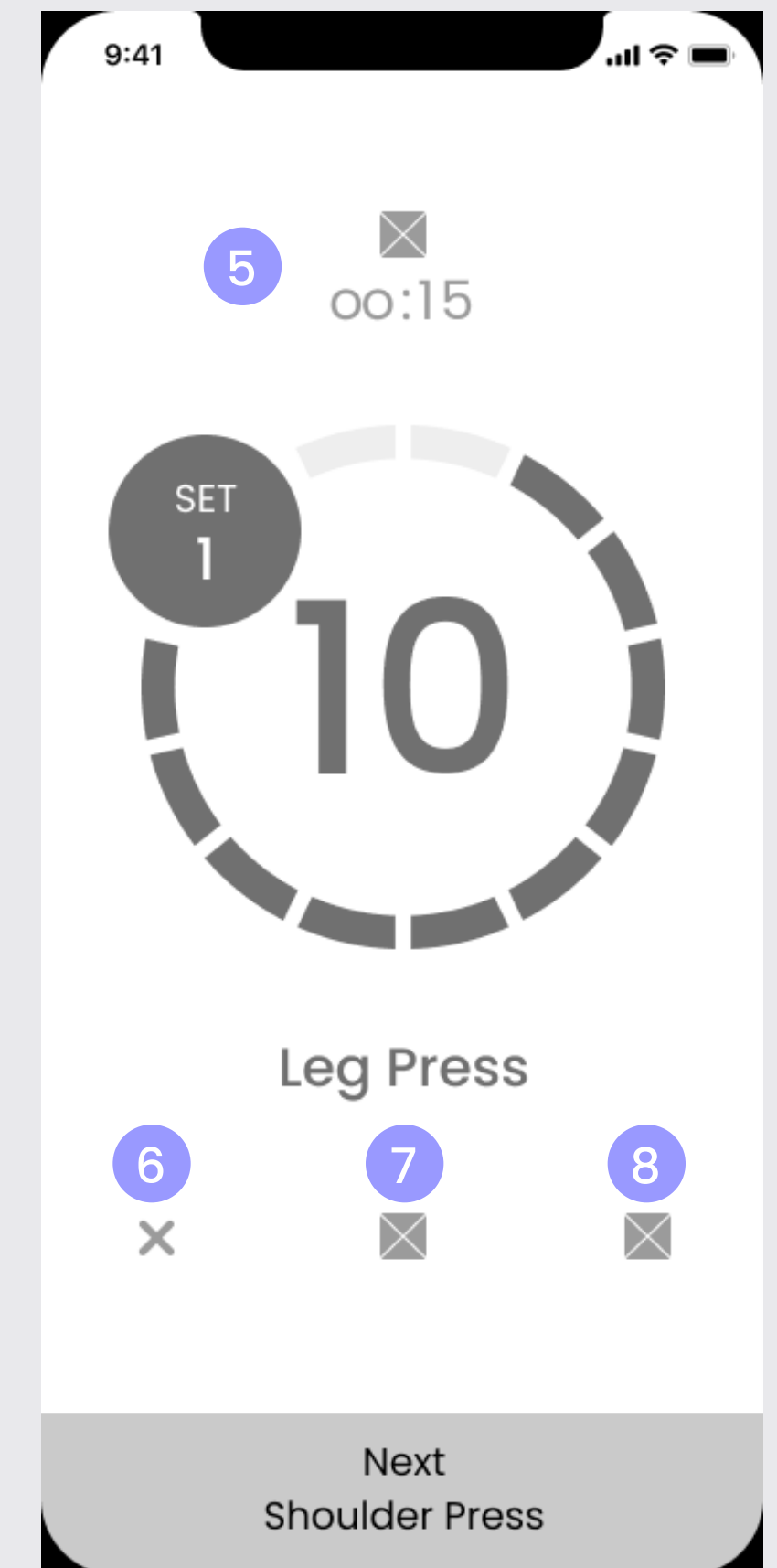
Timer

Morning Challenge

Bright

Sunny

Warm

Cheerful

Vivid

Inspiring

Chunky

Design by Haena Lee
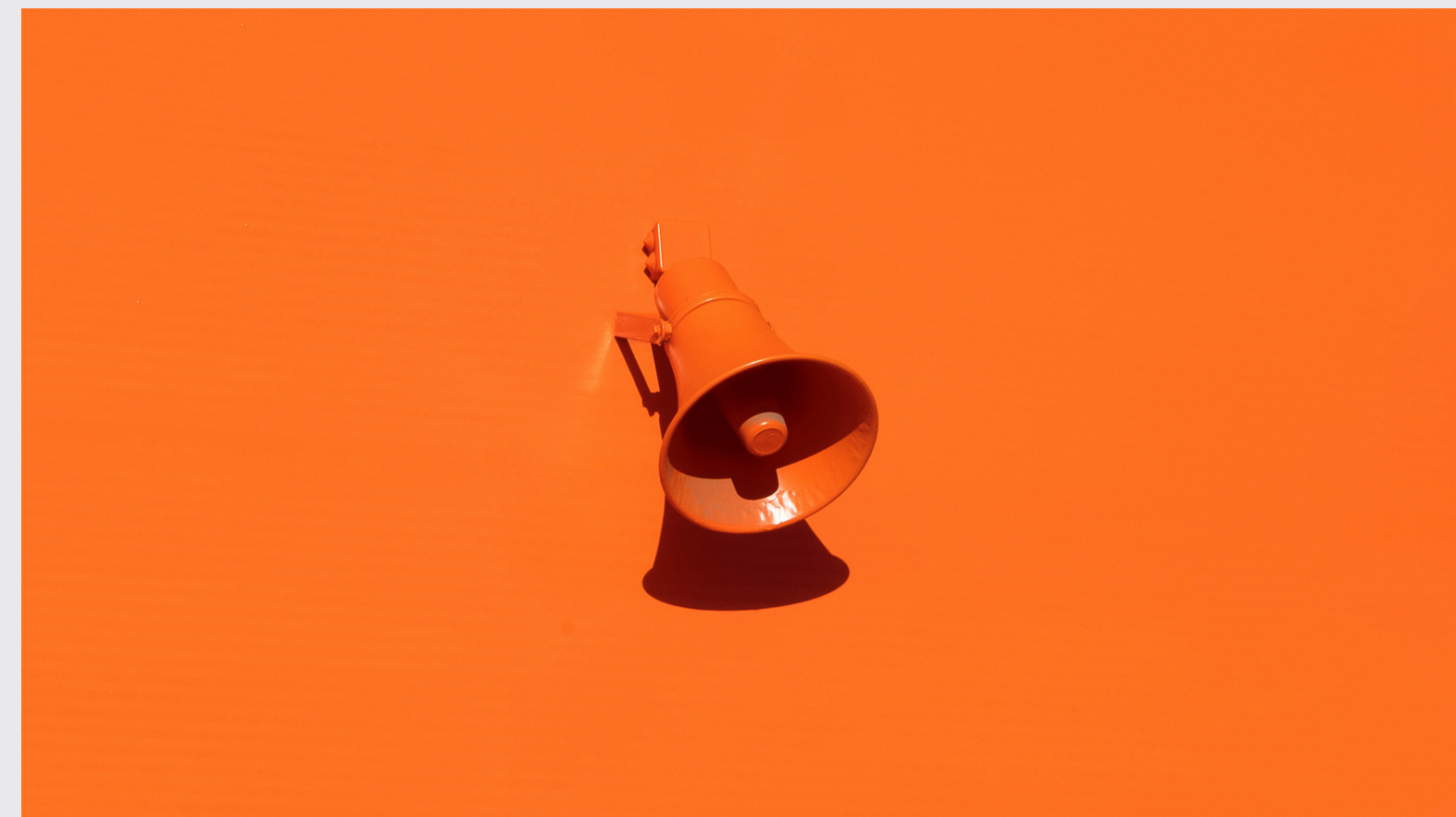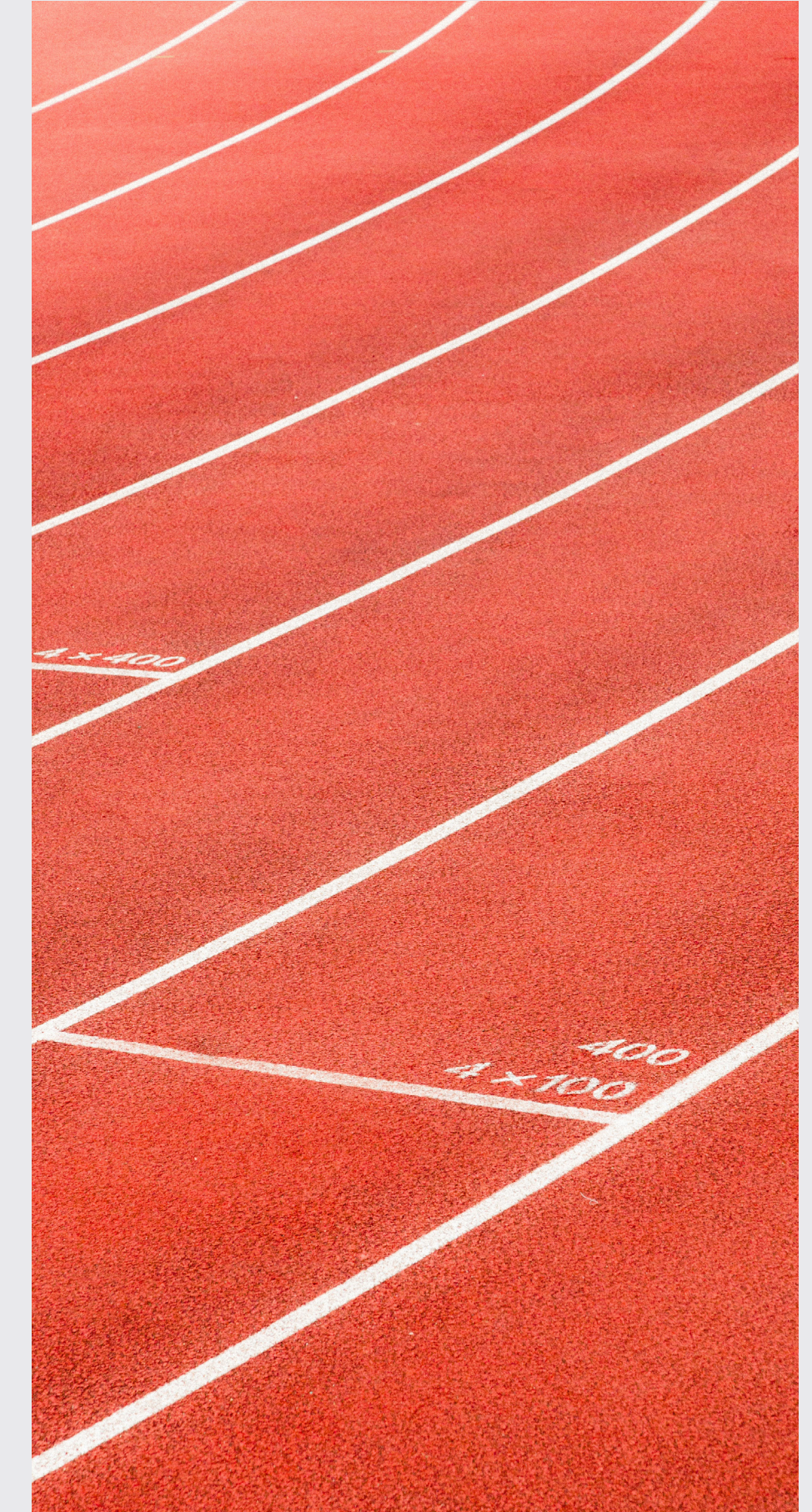
Morning Challenge

I was inspired by orange and blue contrast with a light background. This warm and energetic color will increase the user's motivation. Chunky graphics will also give users a powerful feeling

1 Point area

2 Color contrast

3 Point area & typo color hierarchy

4 Color & illustration

5 Illustration Style

Design by Haena Lee

Morning Challenge

#FF7D1C

#FFE7C9

#EBEDF3

#0037C4

#698EEE

9:41

Day 3

Increase
Your Muscle Mass

1° Level

5° Intensity

45 Minutes

245 Calories

Start

Shedule

9:41

Skip

Leg Press

ⓘ Grab the weight plate and
pull it off the weight bar

Best weight for you is

65lb

Next

9:41

oo:15

SET 1

10

Leg Press

Next
Shoulder Press

Design by Haena Lee
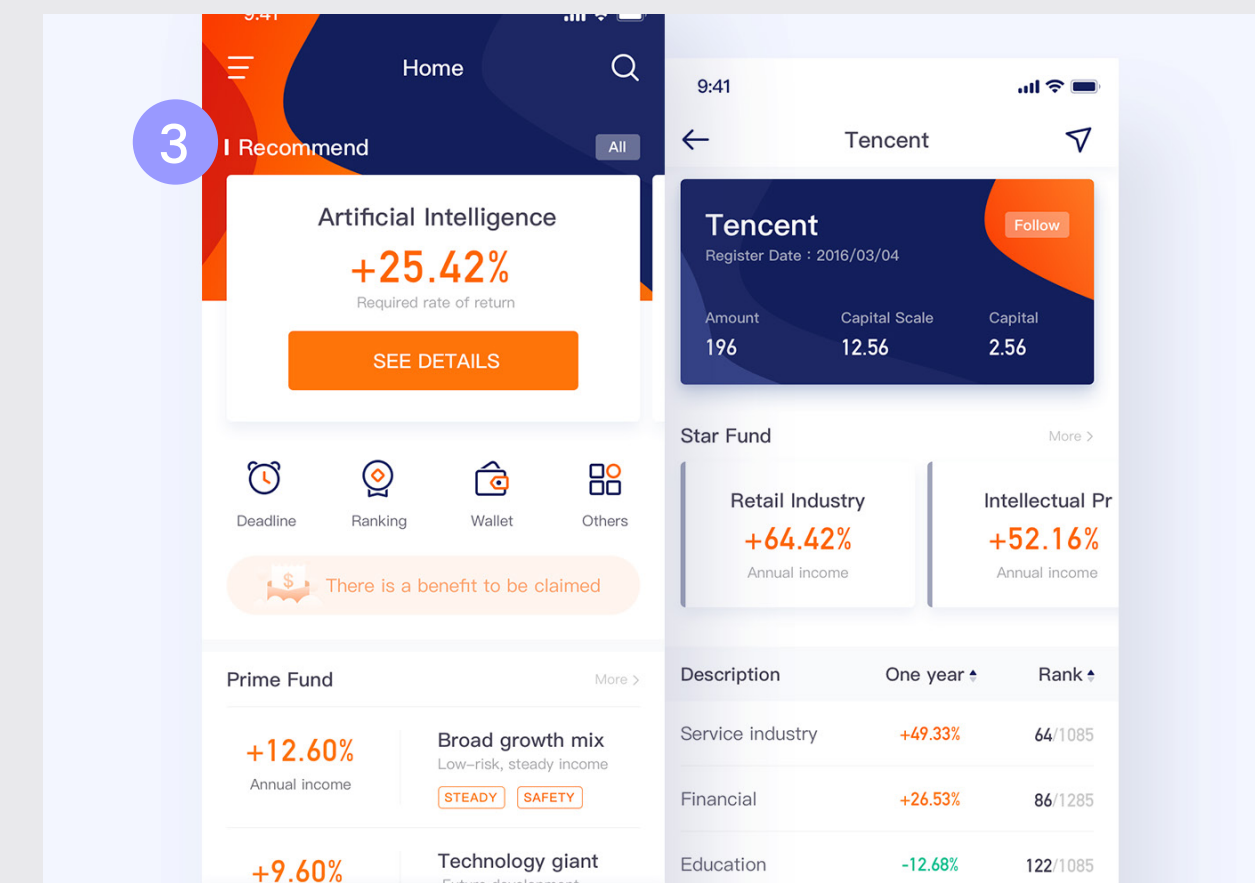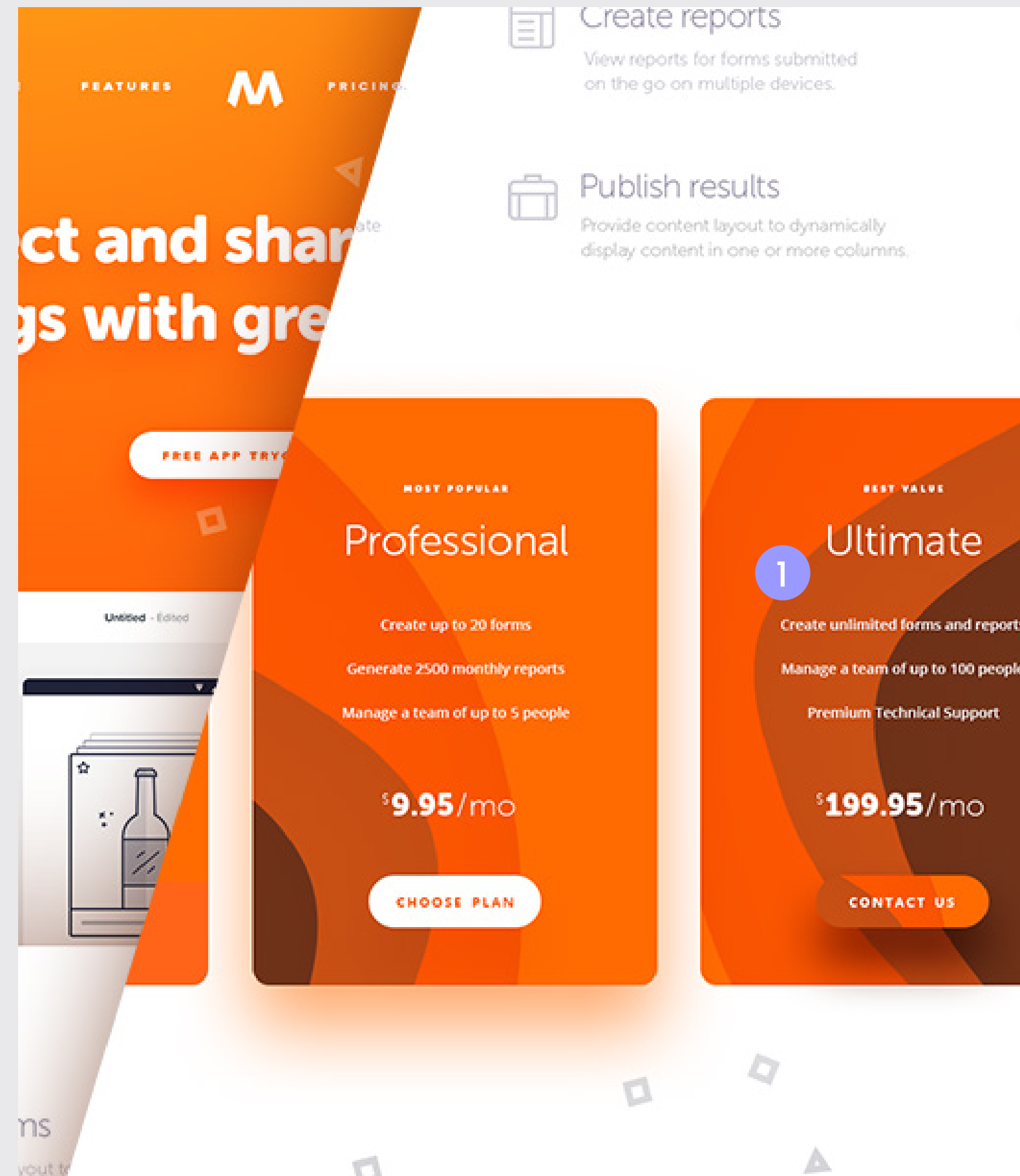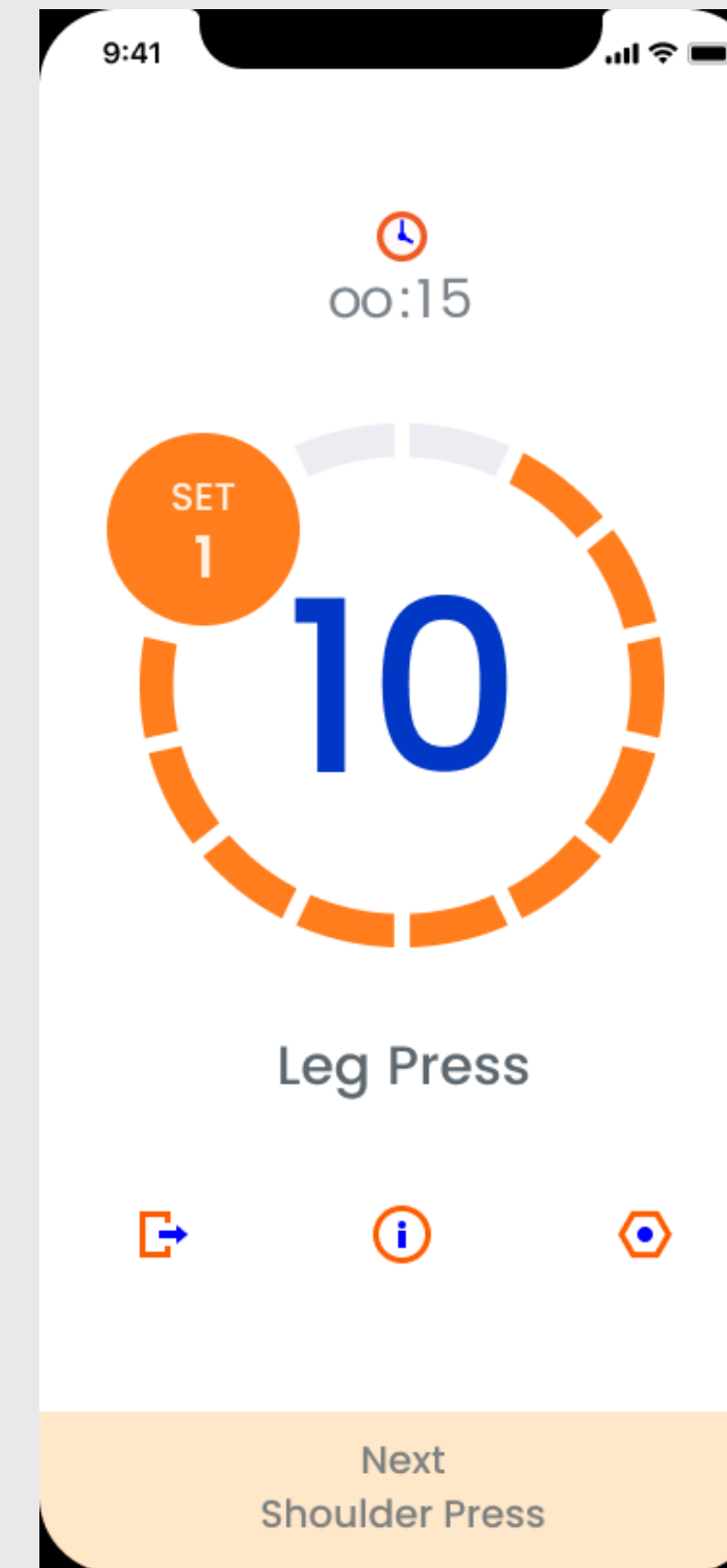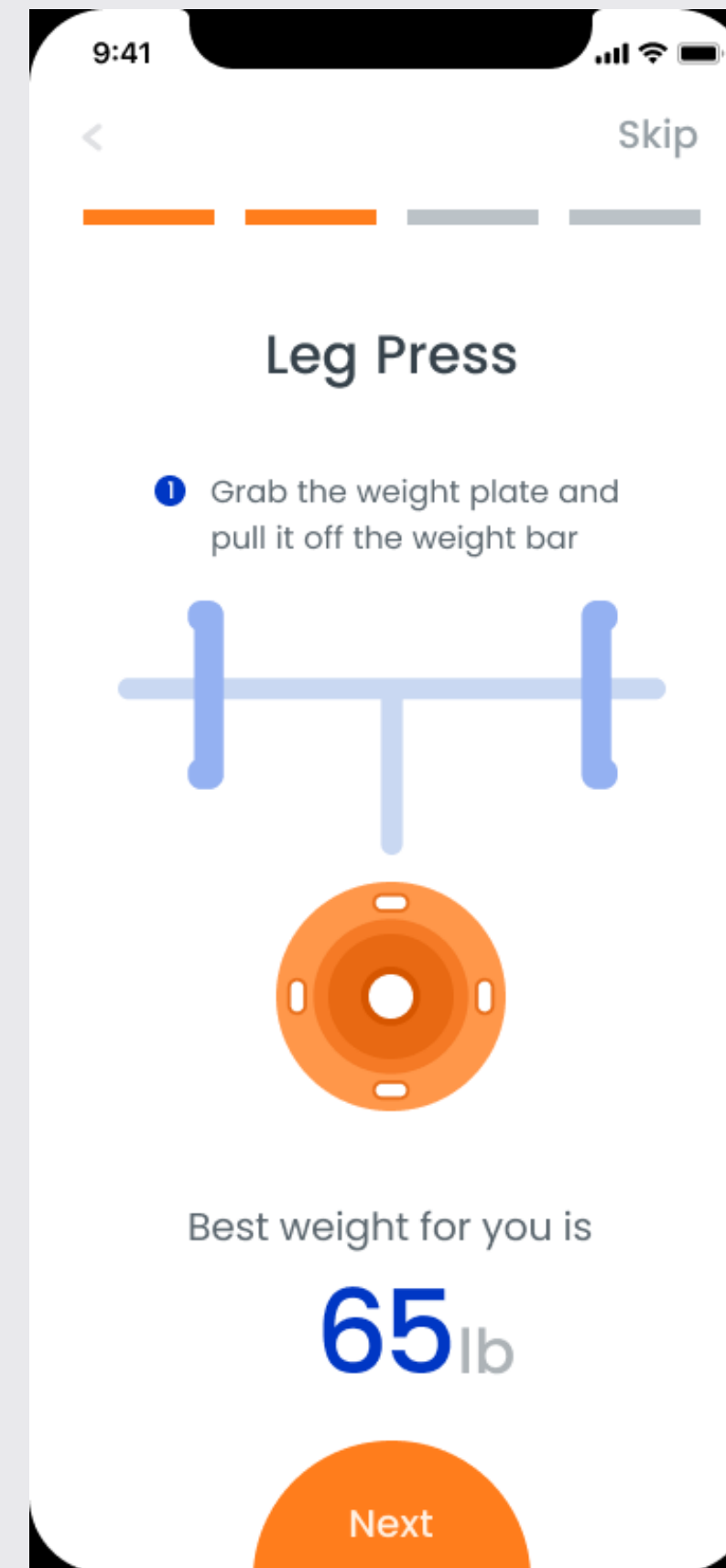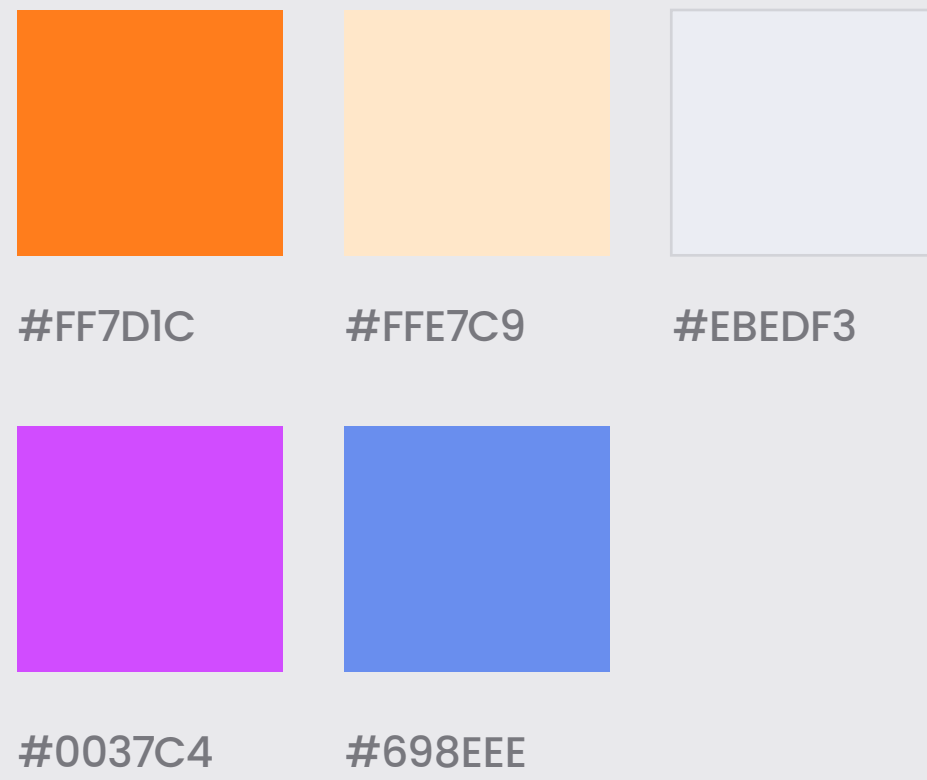
Evening Meditation

Dark

Cool

Relaxed

Calm

Patient

Smooth

Luminous
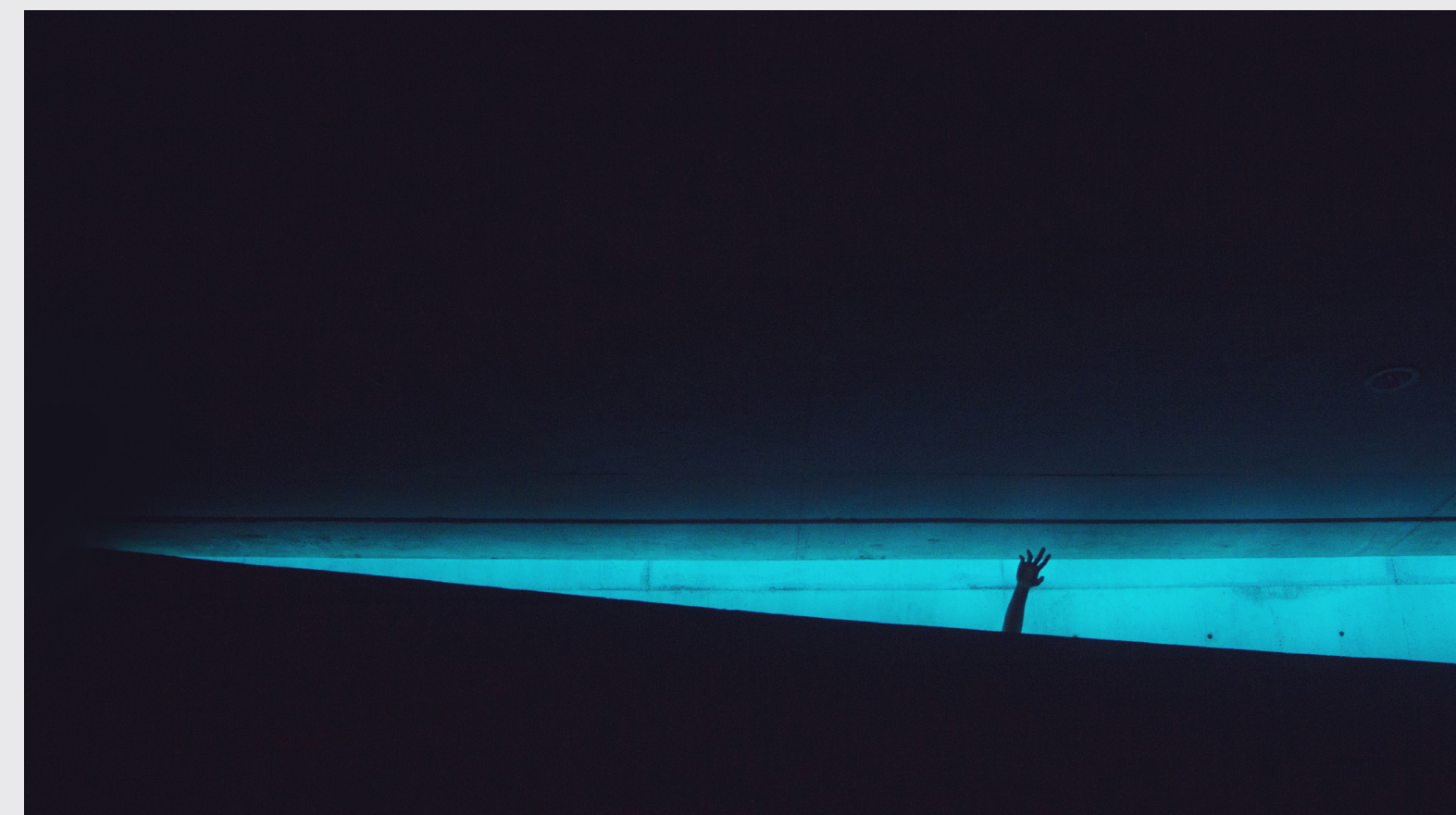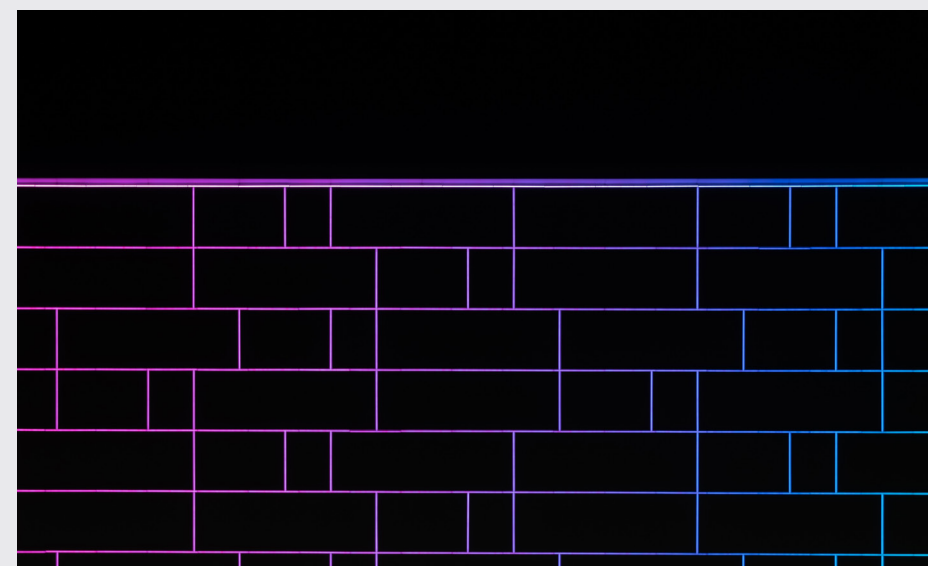
Evening Meditation

I was inspired by vivid cool tone gradation on the dark background. This will make users concentrate the process better and give visual interests.

1 Progress

2 Point color

3 Gradation color

4 Information hierarchy

5 Icon style

Design by Haena Lee

Evening Meditation

#0085ff

#00BAFF

#92CFFF

##D14CFF

#1C191E

9:41

Day 3

Increase
Your Muscle Mass

1	**5**	**45**	**245**
Level	Intensity	Minutes	Calories

Start

Shedule

9:41

Skip

Leg Press

ⓘ Grab the weight plate and
pull it off the weight bar

Best weight for you is

65lb

Next

9:41

oo:15

SET 1

10

Leg Press

Next
Shoulder Press
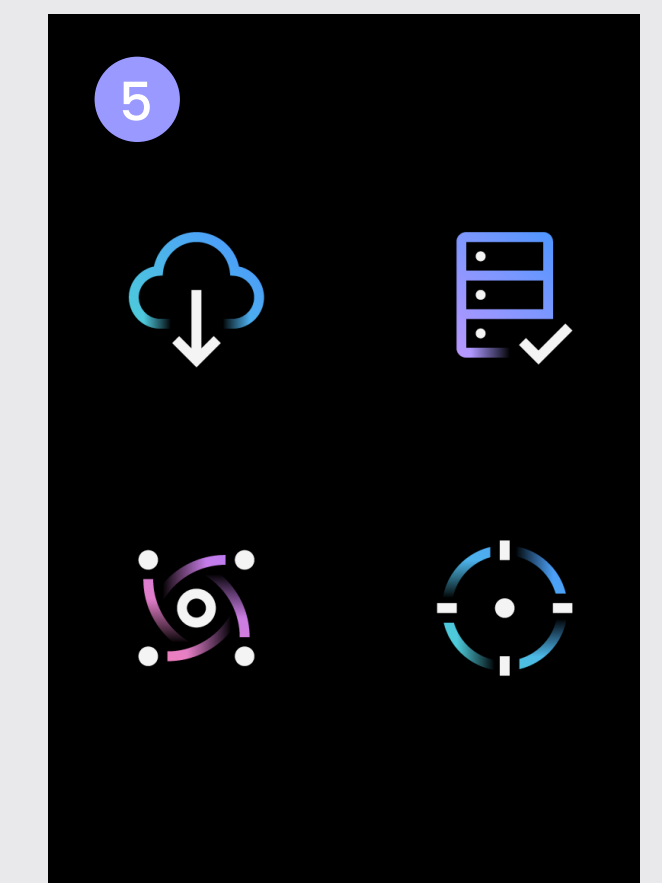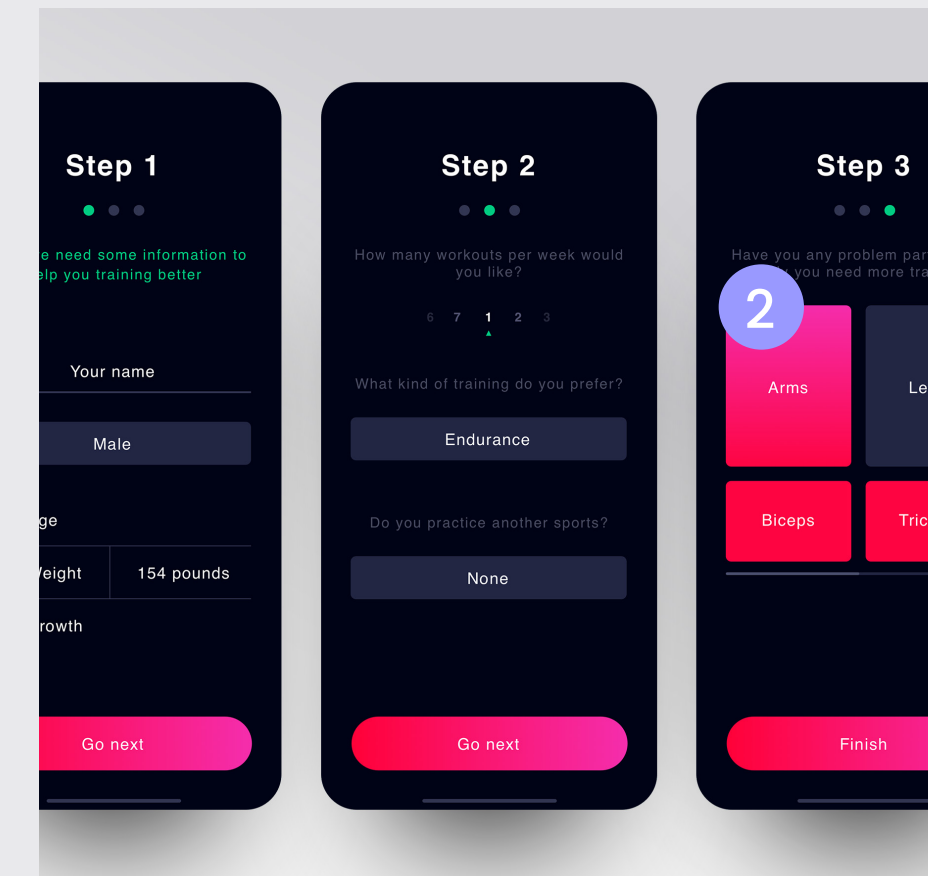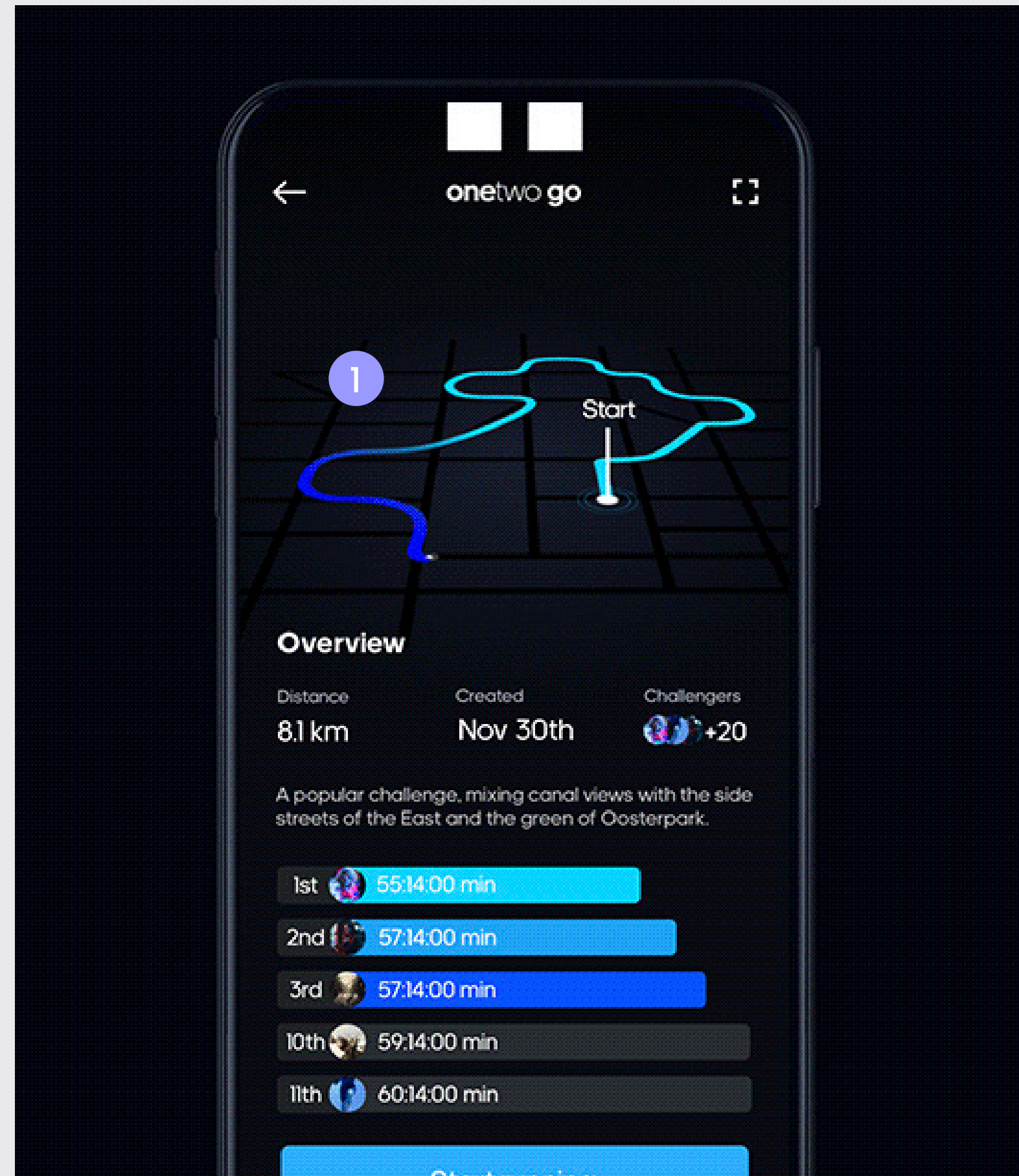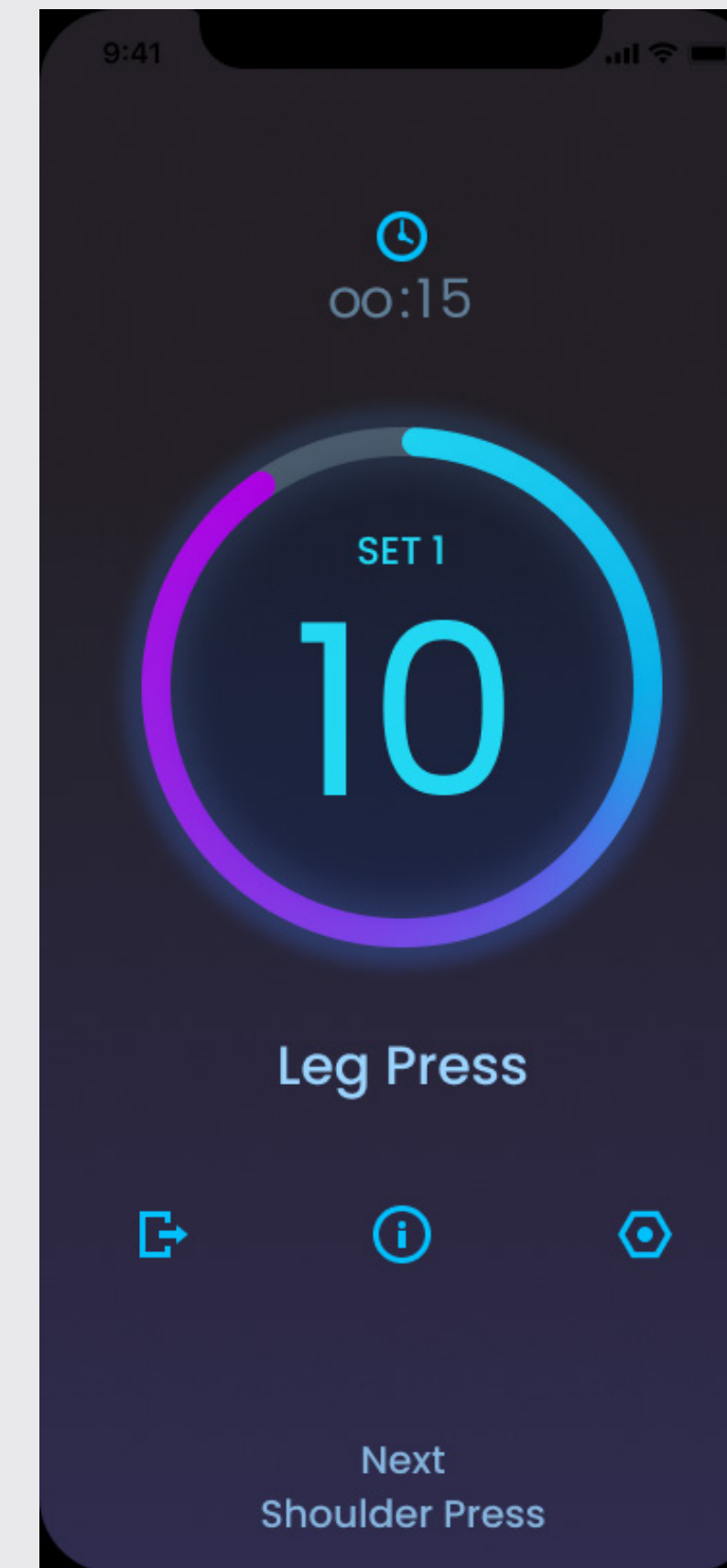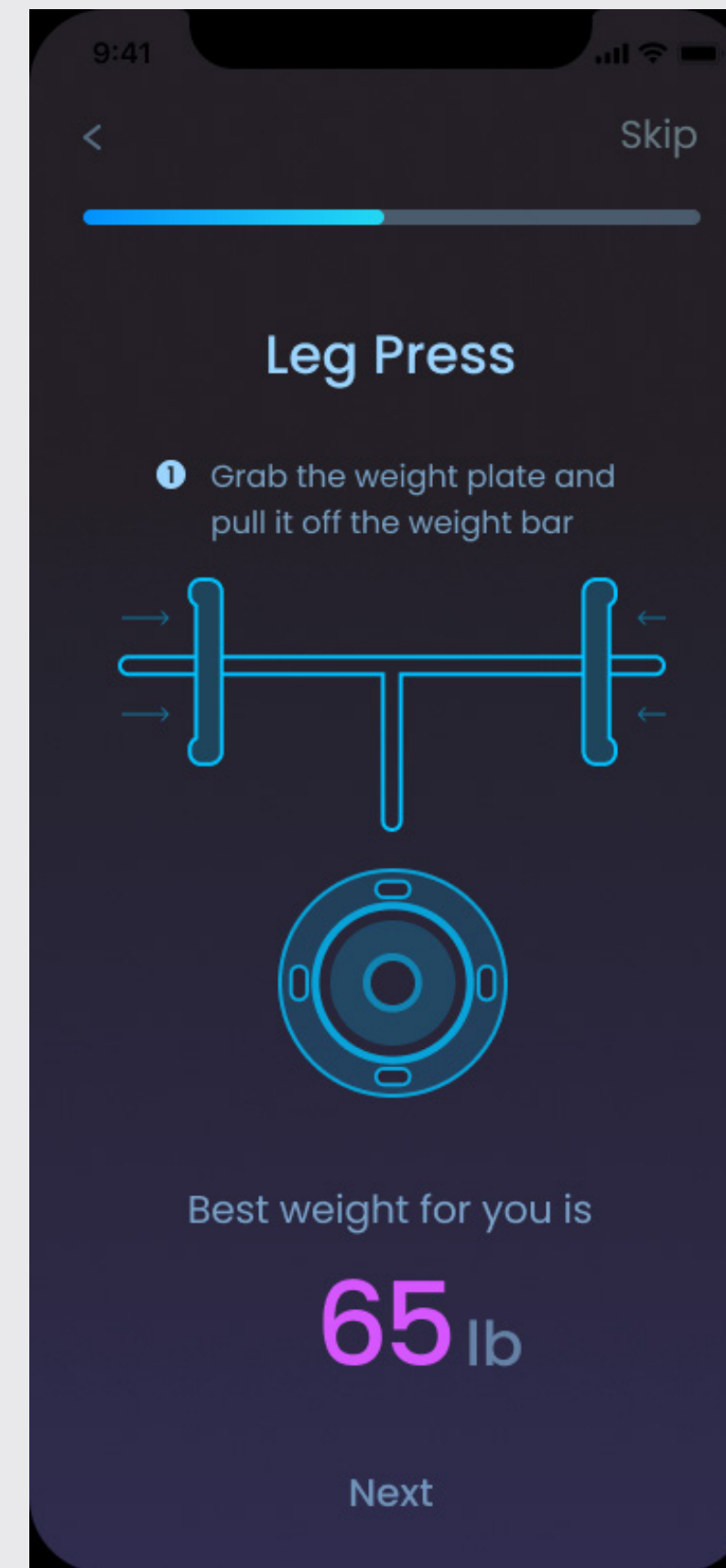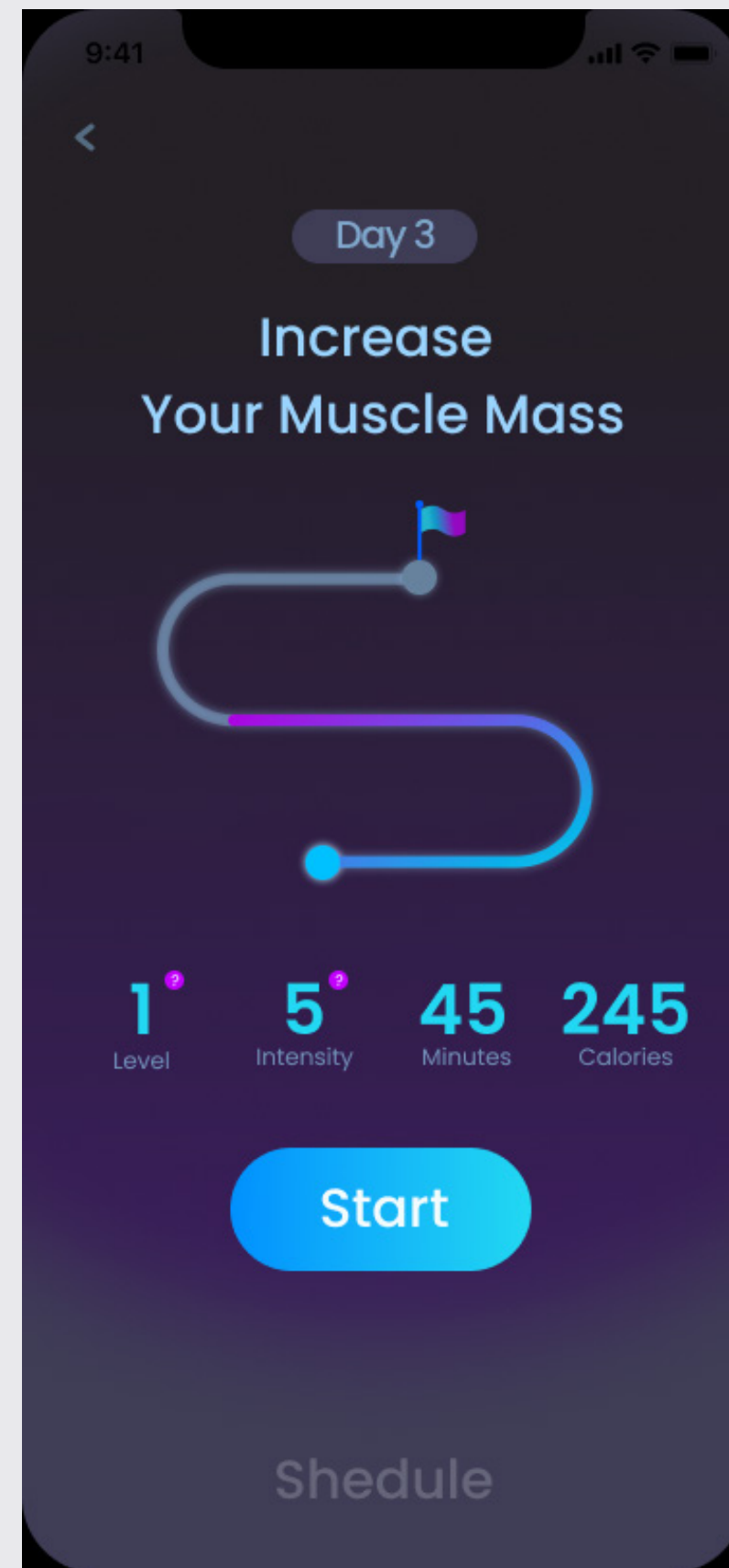
Final Design

Final Wireframes

Style Guide

Prototypes

Wireframe Flow

Main Screen

Hi Haena,
Welcome back!

DAY 3

Increase
Your Muscle Mass

45 **245**
Minutes Calories

START

See how much you're improved

Today's goal

DAY 3

Increase
Your Muscle Mass

★★★☆☆ biginner   **45** min

moderate   **245** kcal

START

Today's Exercise

Today's goal_Scroll view

DAY 3

Increase
Your Muscle Mass

★★★☆☆ beginner   **45** min

moderate   **245** kcal

START

Today's Exercise

Warm Up

Stretching
5min

Cycling
10min

Today's Exercise

Warm Up

Stretching
5min

Cycling
10min

Workout

Leg Press
3set of 12

Shoulder Press
3set of 12

Chest Press
3set of 12

Cool Down

Treadmil
5min

Design by Haena Lee

Wireframe Flow

Tutorial

< ⊠

Leg Press
Let's set the machine

Best weight for you is
65lb

Next

Timer

⊠
oo:15

SET 1
10

Leg Press

⊠ ⊠ ⊠

Next
Shoulder Press

Timer_Pause

< ⊠

Great!
Here is the result.

🕐 05:36

🏋 **3set** of 12

🔥 15 kcal

♡ Connect to Watch ☑

Next
Shoulder Press

Feedback

Great!
Here is the result.

05:36

How was the intensity?

😐 😊 🙁
Too easy Perfect Too much

☑

Next
Shoulder Press

Style Direction

Grid System

iPhoneX (375*812)

4px rows

4 Columns

72px width

16px gutter
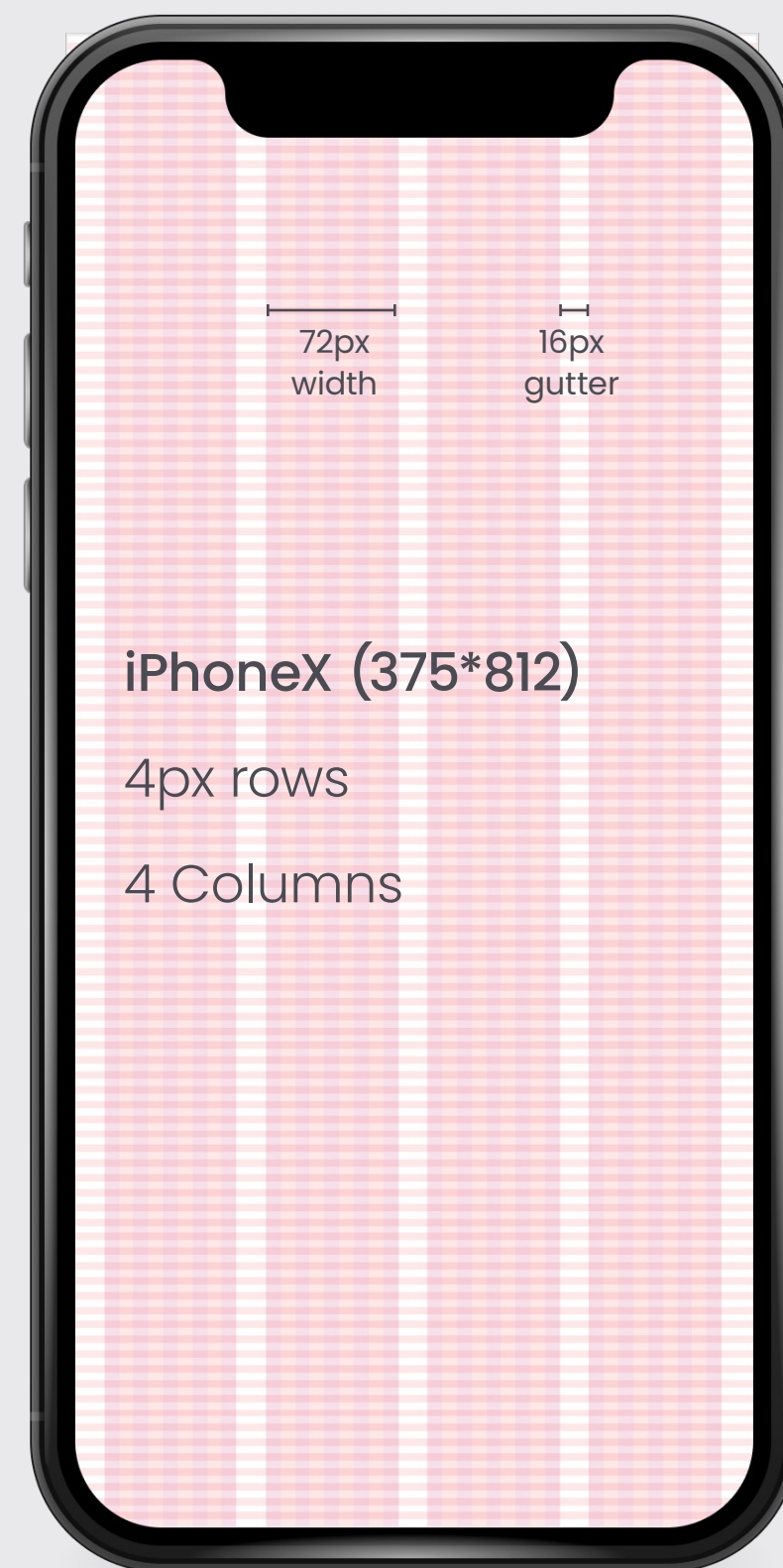
Typography

H1 - Poppins Medium 28/32

H2 - Poppins Medium 20/24

Subtitle - Poppins Regular 20/24

Body- Poppins Regular 16/20

Caption - Poppins Regular 12/16

Icon & Illustration Style
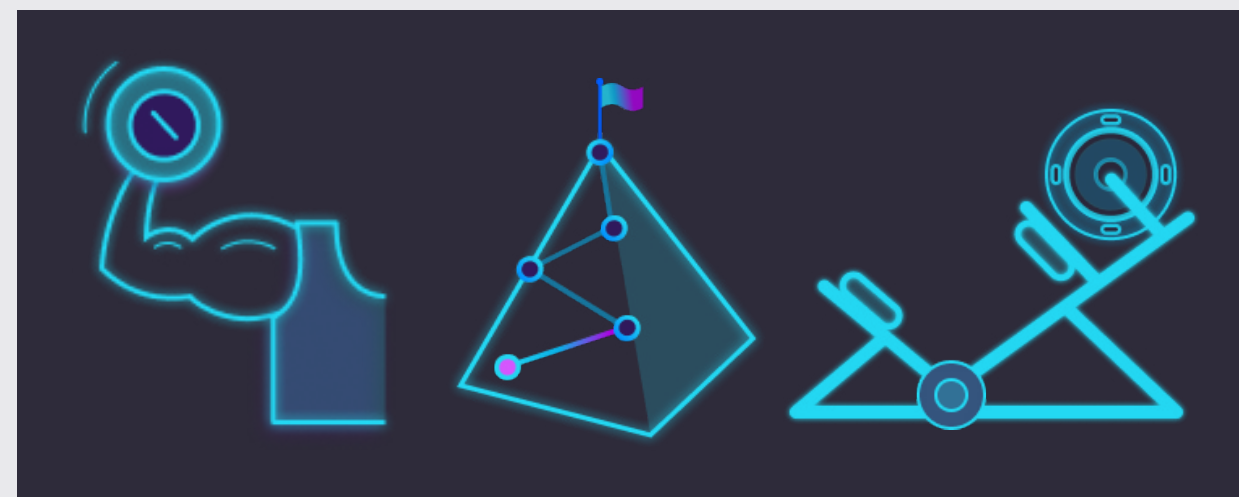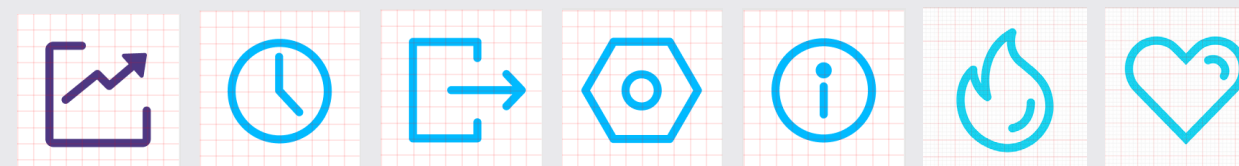
Color

#1BD4F1	#00BAFF	#A600E0	#C7D0F1	#656F92	#0E062E

Primary	Aa Large Text		Aa Normal Text	
#0e062e	White Text	min 34% opacity		min 46% opacity
	Black Text	NOT LEGIBLE ⚠		NOT LEGIBLE ⚠
	Custom Text	min 52% opacity		min 69% opacity

P — Light	Aa Large Text		Aa Normal Text	
#352f57	White Text	min 37% opacity		min 52% opacity
	Black Text	NOT LEGIBLE ⚠		NOT LEGIBLE ⚠
	Custom Text	min 62% opacity		min 86% opacity

P — Dark	Aa Large Text		Aa Normal Text	
#000006	White Text	min 35% opacity		min 46% opacity
		NOT LEGIBLE ⚠		NOT LEGIBLE ⚠
	Custom Text	min 52% opacity		min 67% opacity

Color Accessibility Test

Home Screen

The screen shows today's goal briefly with card view and user's change when users scroll down.

Users can see their weekly schedule by swiping cards.

Hi Haena,
Welcome back!

DAY 3
—
Increase
Your Muscle Mass

45min   245kcal

START

See how much you're improved

Users can check their record when they scroll down.

Design by Haena Lee

Today's goal

Users can understand detailed plan when you scroll. Users can replace and delete exercises.

The illustration shows user's overall achievement.

Users can check the exercise list when they scroll down.

DAY 3
—
Increase Your Muscle Mass

★★★☆☆ biginner
moderate

45 min
245 kcal

START

Today's Exercise

DAY 3
—
Increase Your Muscle Mass

★★★☆☆ beginner
moderate

45 min
245 kcal

START

Today's Exercise

Warm Up

Warm Up

Stretching
🕐 5min

Cycling
🕐 10min

Workout

Leg Press
🕐 3set of 12

Shoulder Press
🕐 3set of 12

Chest Press
🕐 3set of 12

Cool Down

Treadmill
🕐 5min
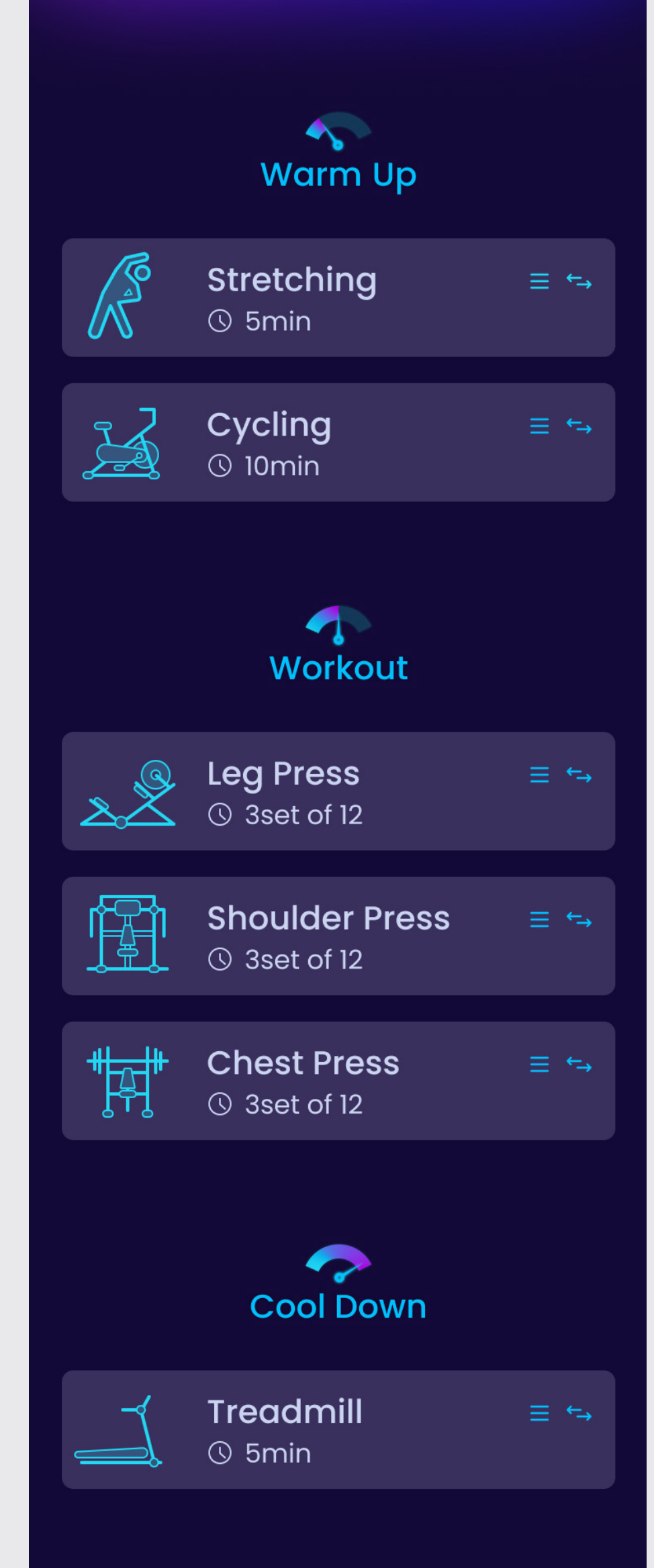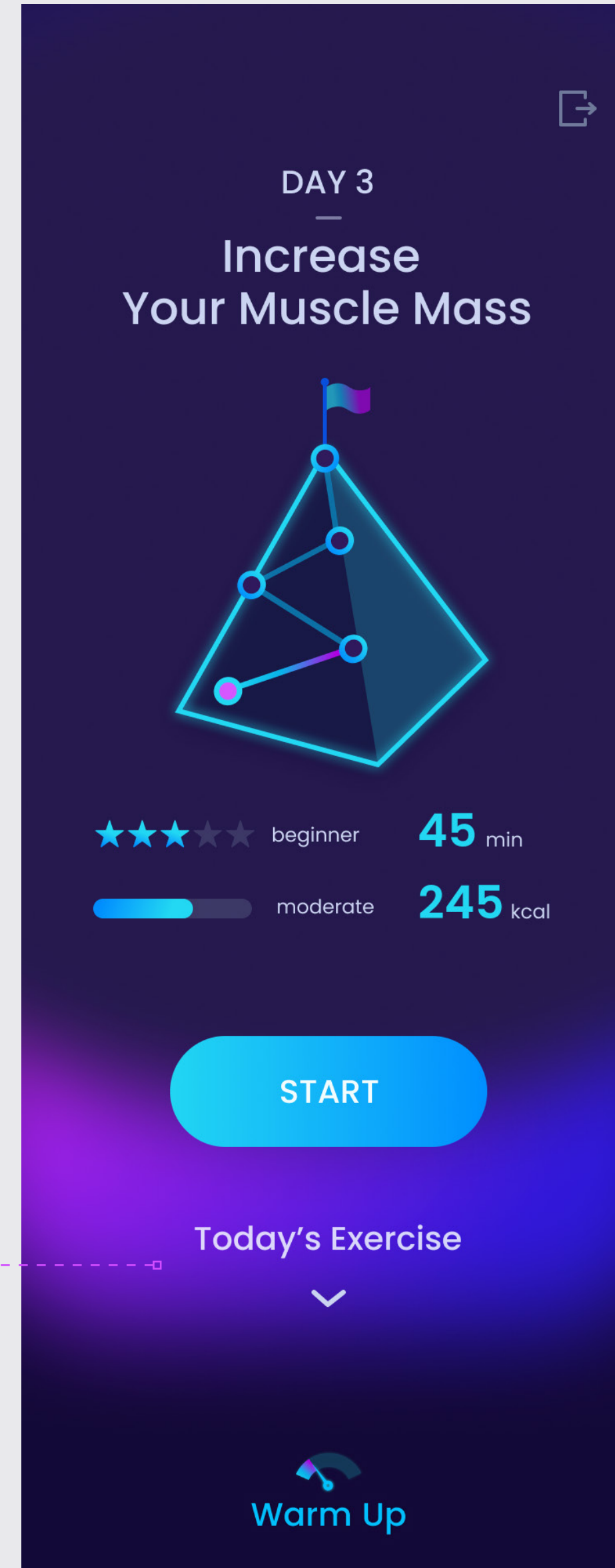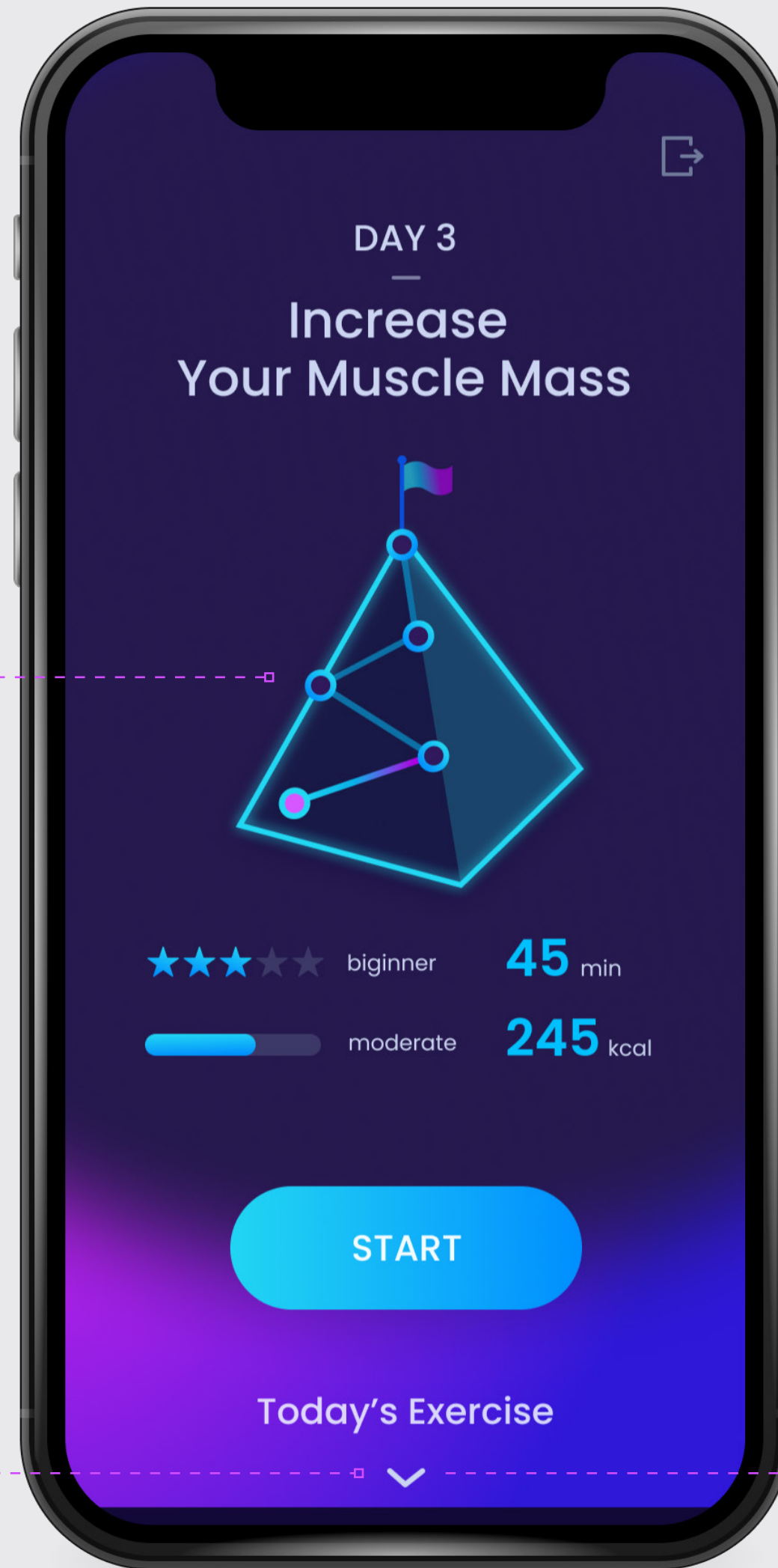
Design by Haena Lee

Tutorial

The screen teaches how to exercise and use the machine properly. User can skip it if they want.

Skip

Leg Press

Leg press machine is a great way to target your quads, hamstrings, and calves with less risk of injury.

⇄ Replace   🗑 Delete

Next

Skip

Leg Press

Grab the weight plate and pull it off the weight bar

Best weight for you is

65 lb ▸

Next
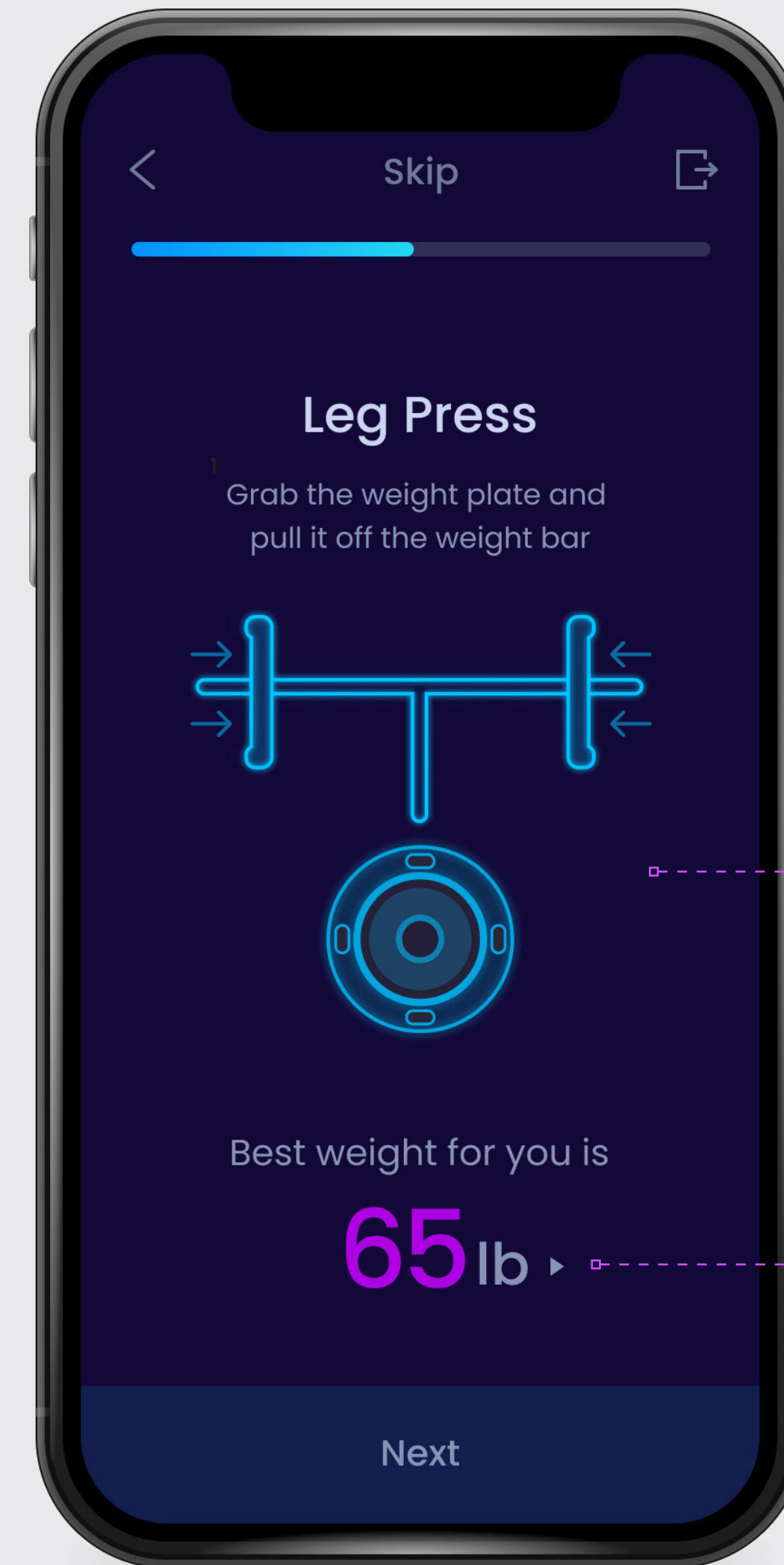
Timer starts when tutorial finish.

Users can check other weight option by clicking the arrow.

Timer

Timer appears when exercise starts. Users can pause it when they touch timer. They can also watch tutorial again when they click info icon.

Overall exercise time.

Users can pause exercise by touching the timer.
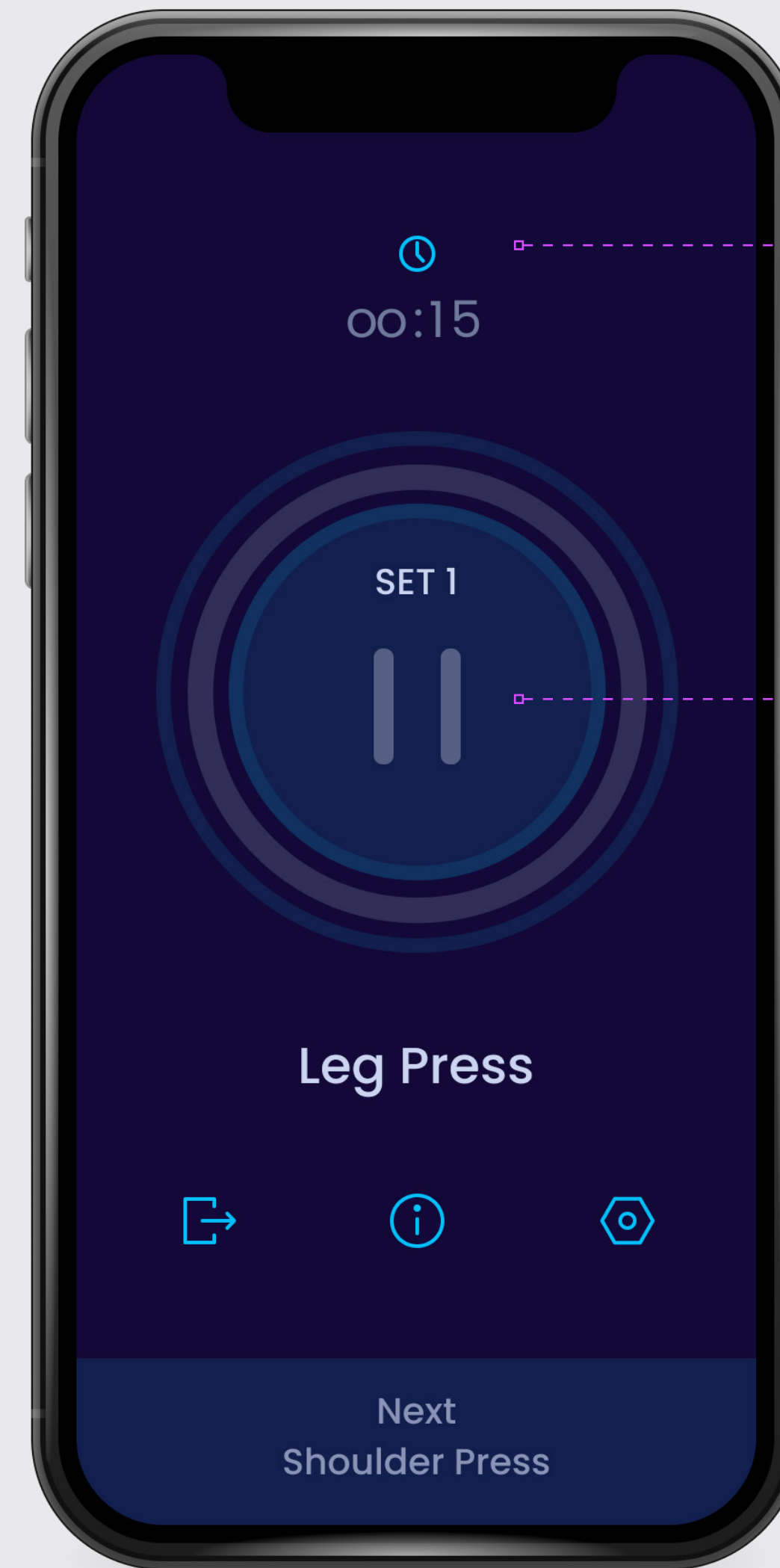
Users can watch the tutorial again if they want.

oo:15

SET 1

10

Leg Press

Next
Shoulder Press

Timer

oo:15

SET 1

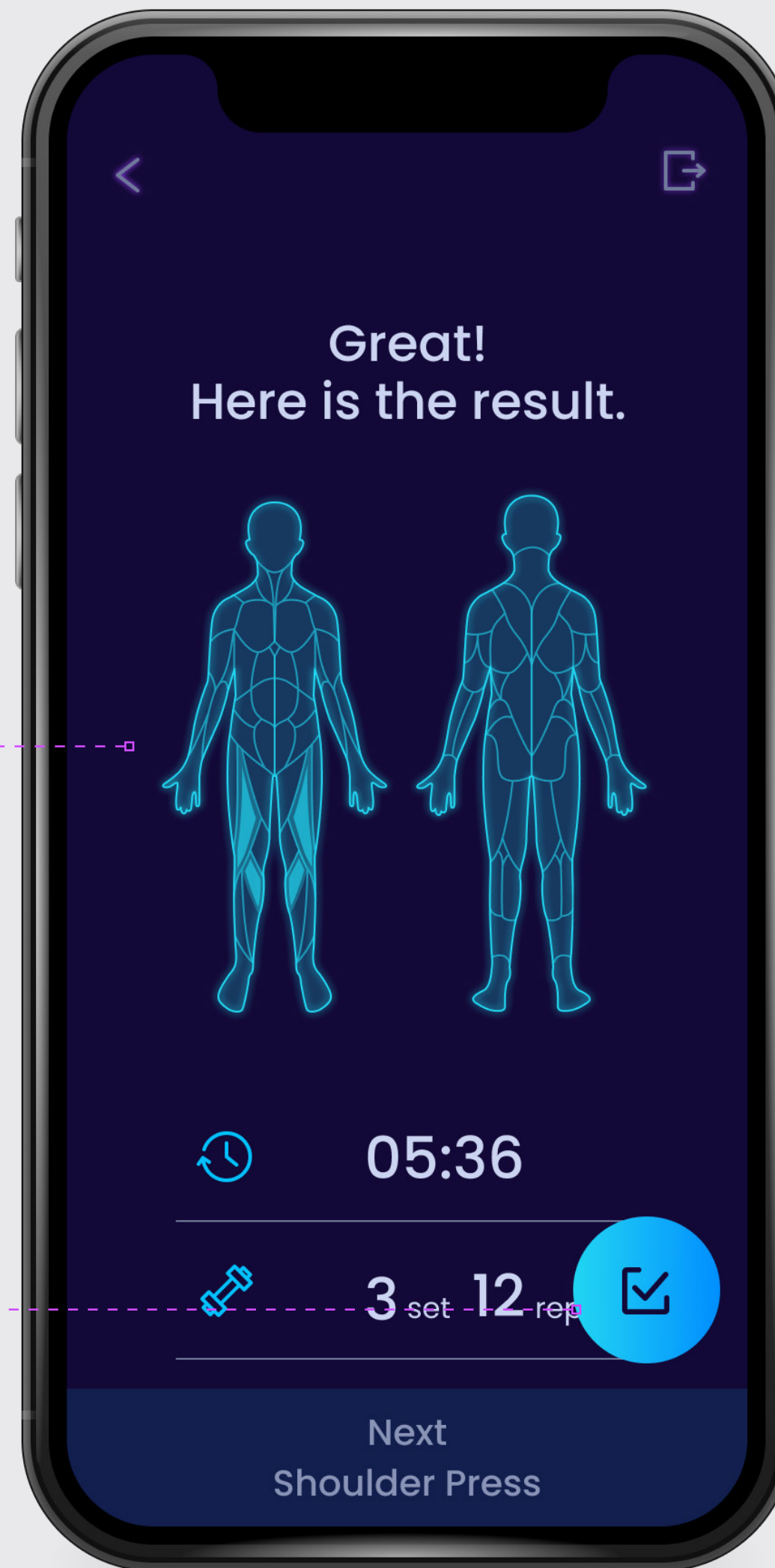Leg Press

Next
Shoulder Press

Timer_Pause

Design by Haena Lee

Workout Summary

The screen shows the result when users finish one exercise. They can give intensity feedback so that the app use this as a reference.

Screen shows a brief result of each exercise in order to encourage users.

User can give intensity feedback for app's next better decision.

Workout Summary

Great!
Here is the result.

05:36

3 set 12 reps

Next
Shoulder Press

Feedback

Great!
Here is the result.

How was the intensity?

Too easy   Perfect   Too much

Great!
Here is the result.

05:36

3 set 12 reps

15 kcal

Connect to Watch

Next
Shoulder Press

Design by Haena Lee
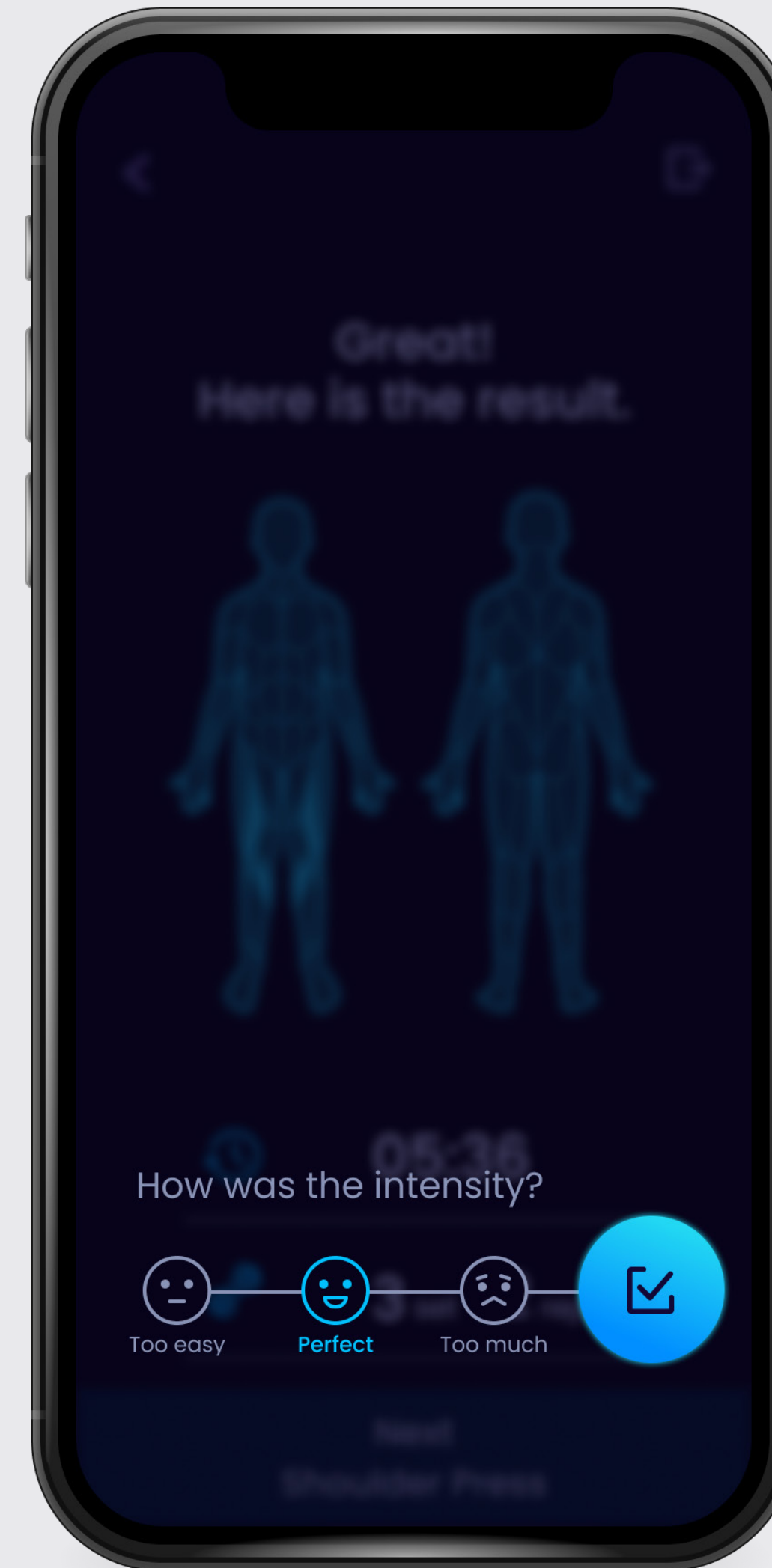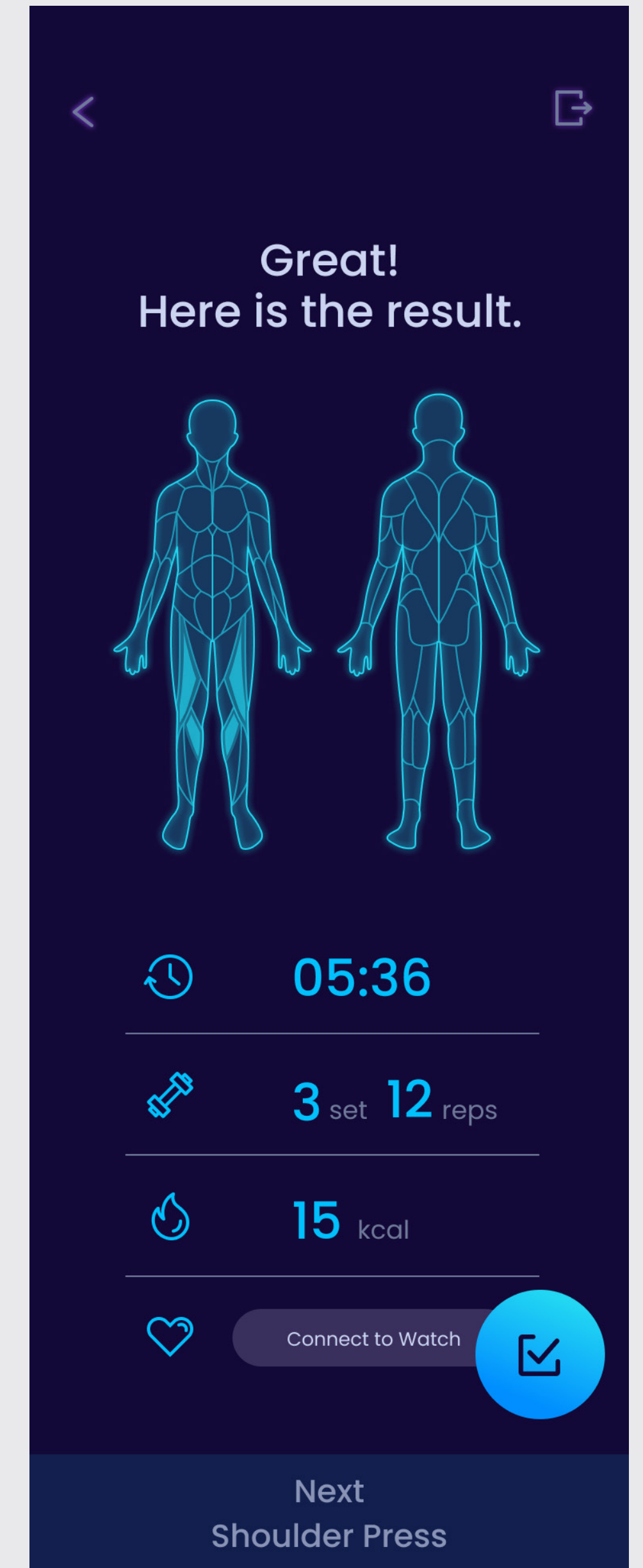
TV & Watch

TV	Watch
User's flow	User's flow
Sketches	Sketches
Wireframes	Wireframes
Prototypes	Prototypes

Inactive User's Flow

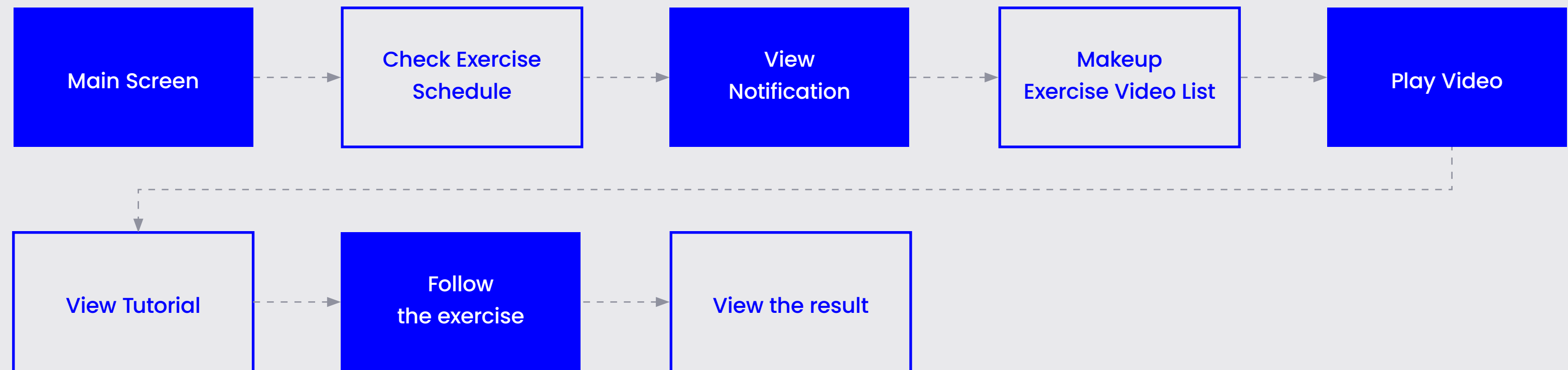Inactive Users in day 10 prefer staying home to going to the gym so they frequently miss the gym schedule they planned to. However, because they know they need to exercise regularly for their health. They want to do makeup exercise at home and get motivation by watching their improvement and tips for health.

Main Screen

Check Exercise Schedule

View Notification

Makeup Exercise Video List

Play Video

View Tutorial

Follow the exercise

View the result

Sketches
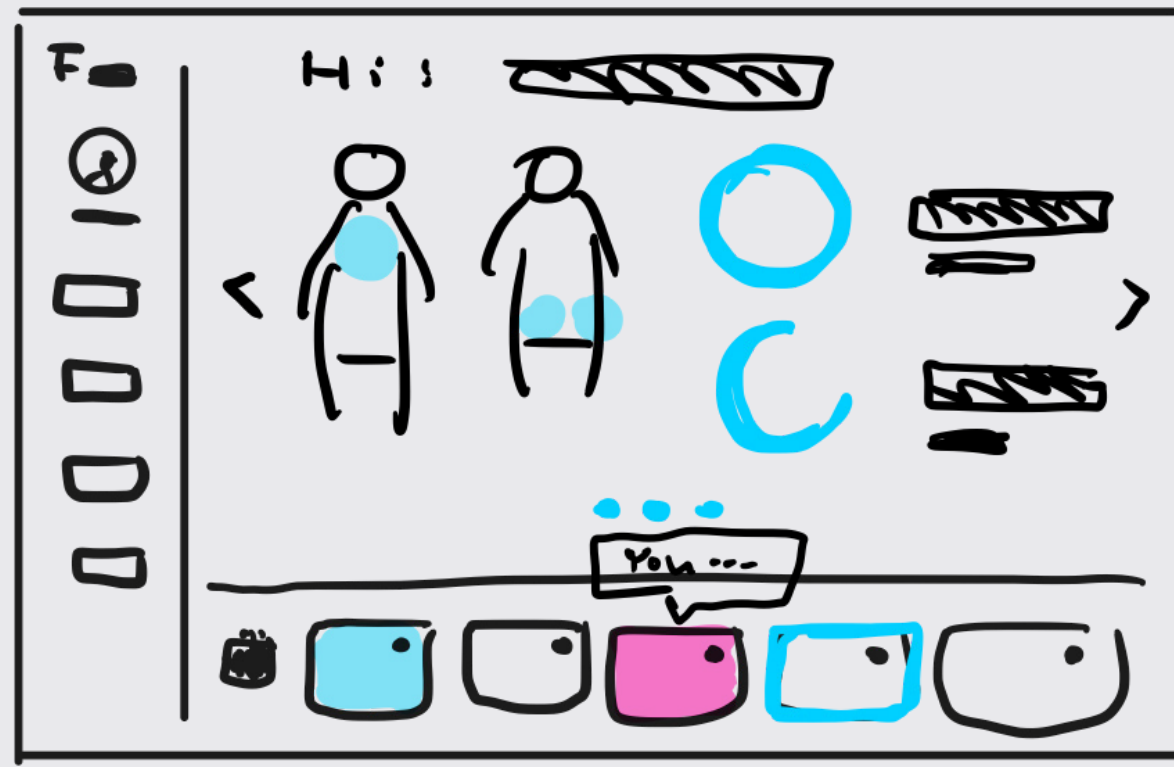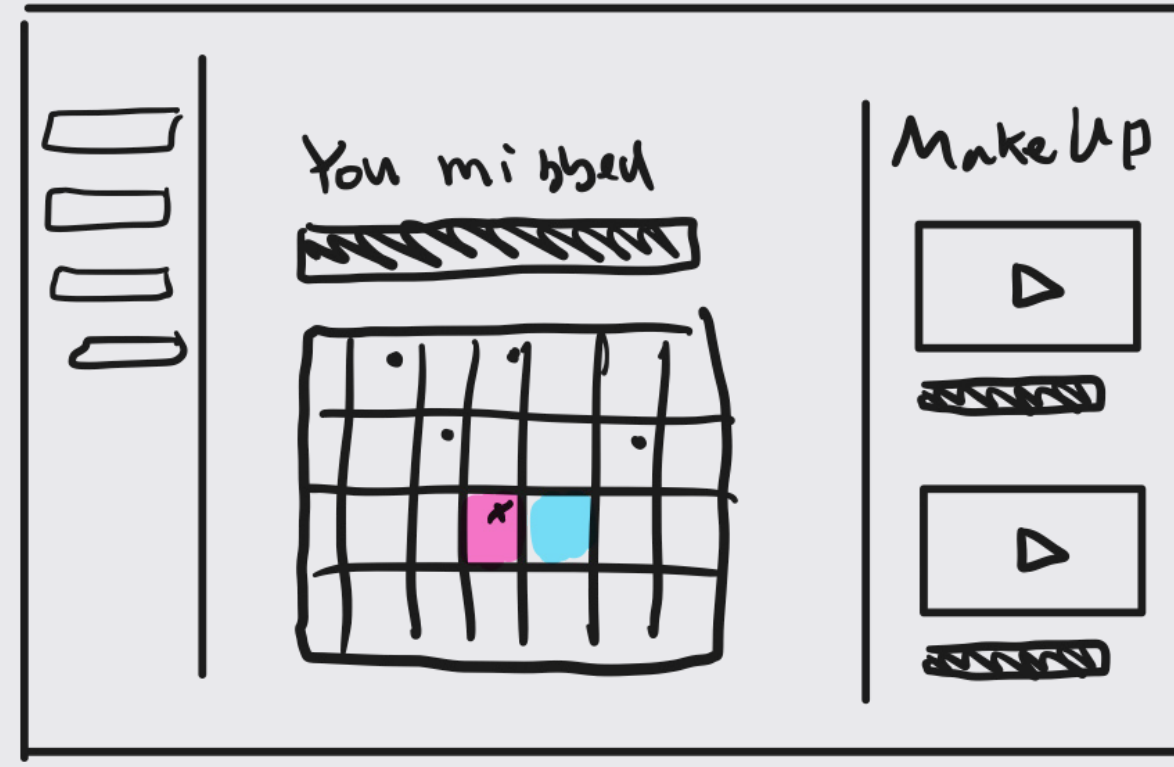
Main

Main

Main

Video

Result

Result

Design by Haena Lee

Wireframe

FITTNEY home

Good Evening, Haena!

You missed one schedule. Choose video below and Start make up exercise now!
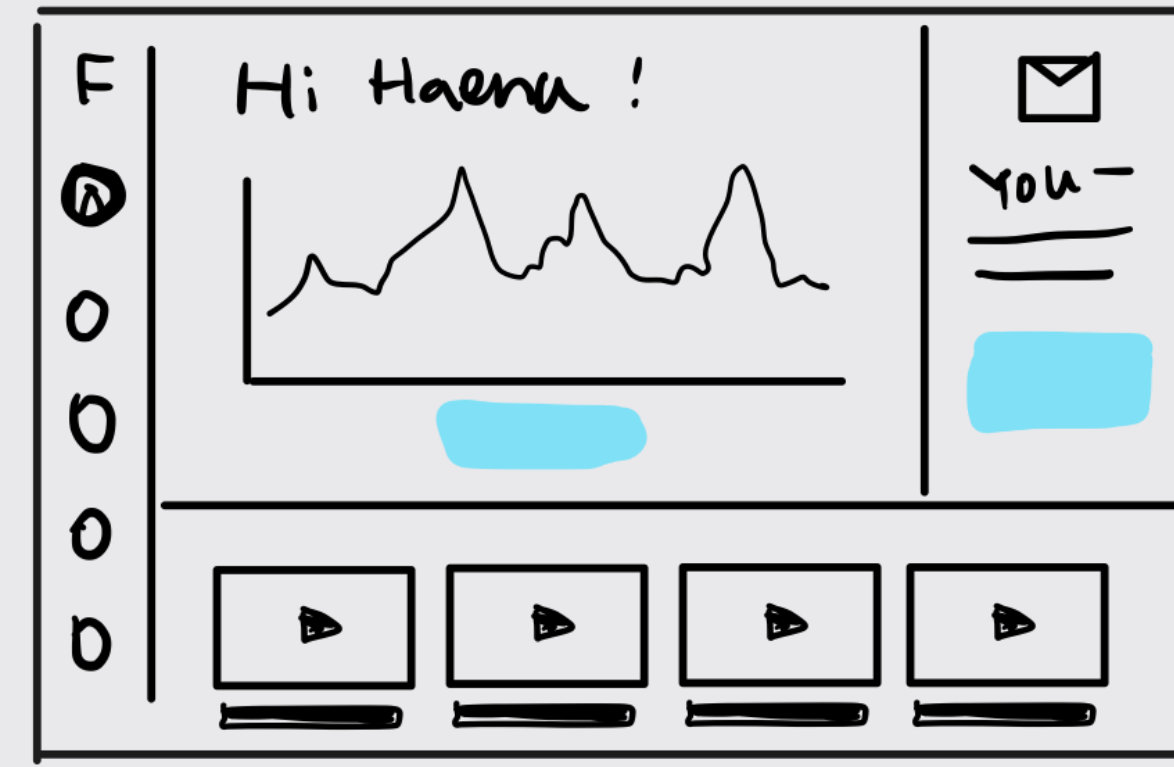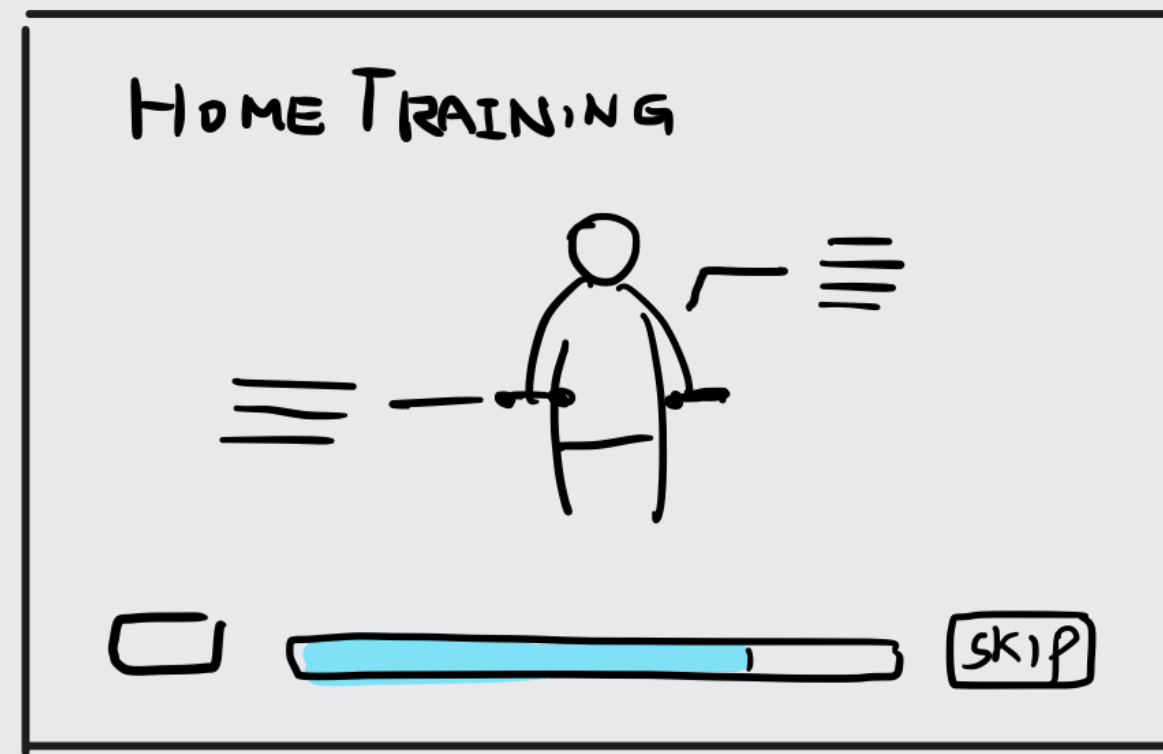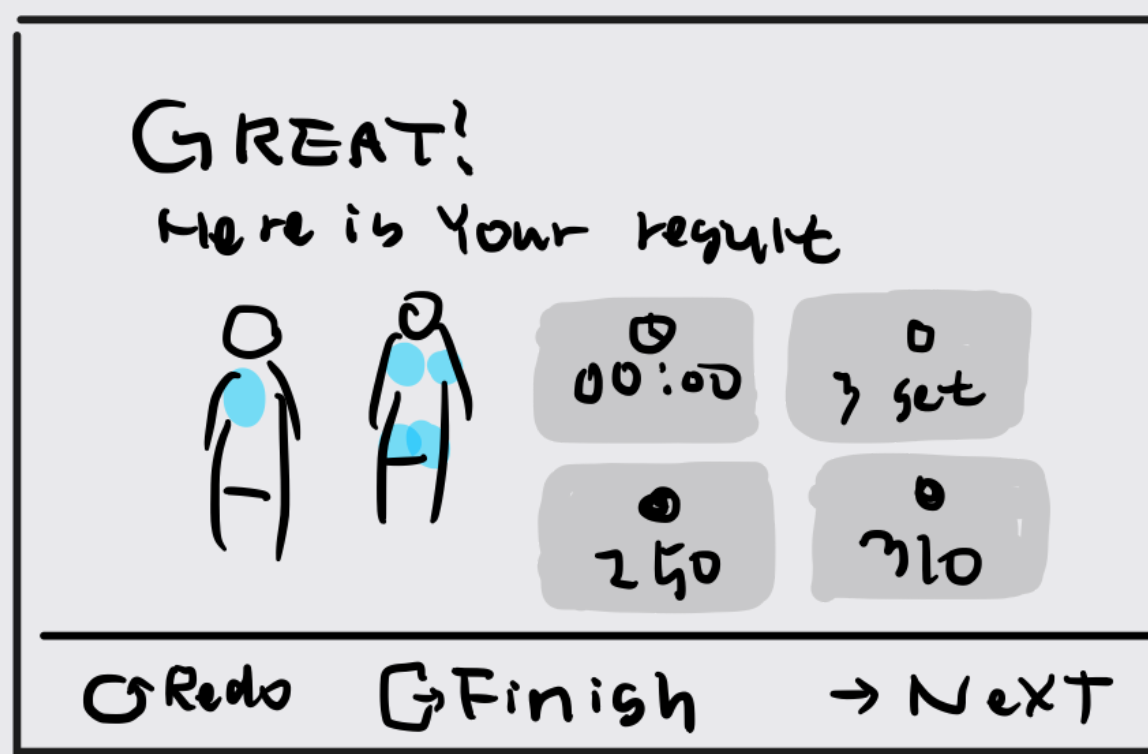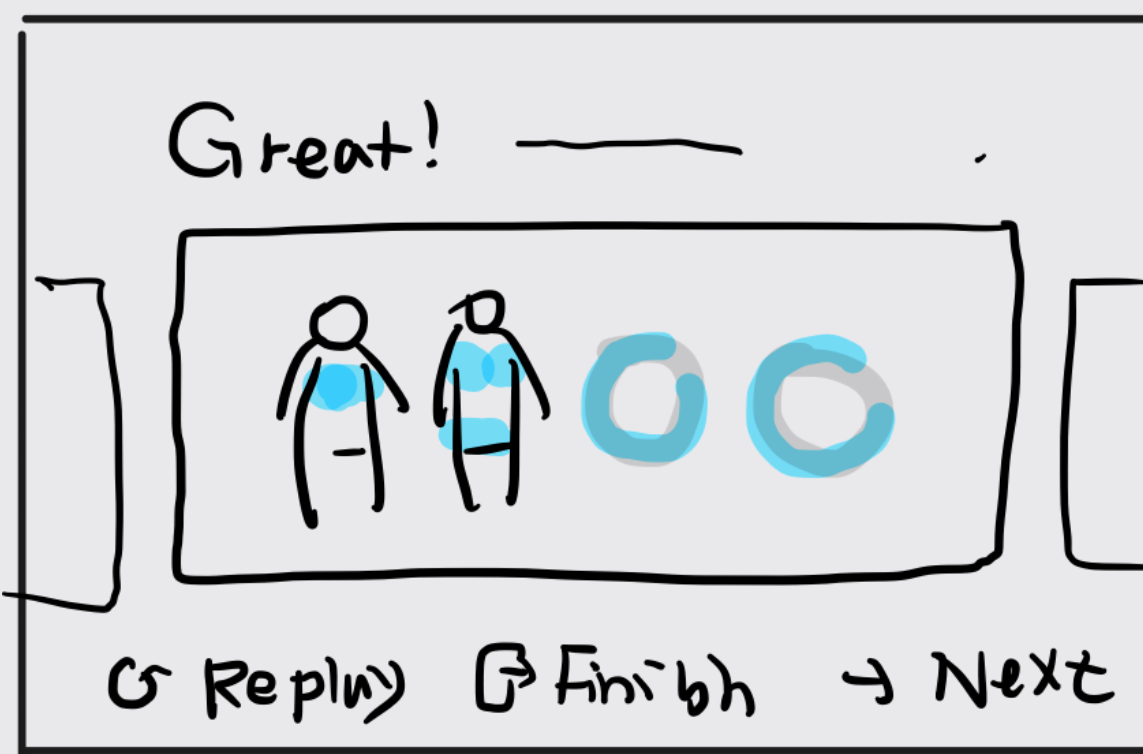
View Shedule

Mon 8	✓ Complete
Wed 10	✗ Missed
Thu 11	Today, No schedule

80px   48px   60px

For you

Intense Ab Workout
⏱ 10min

Upper Body Workout
⏱ 15min

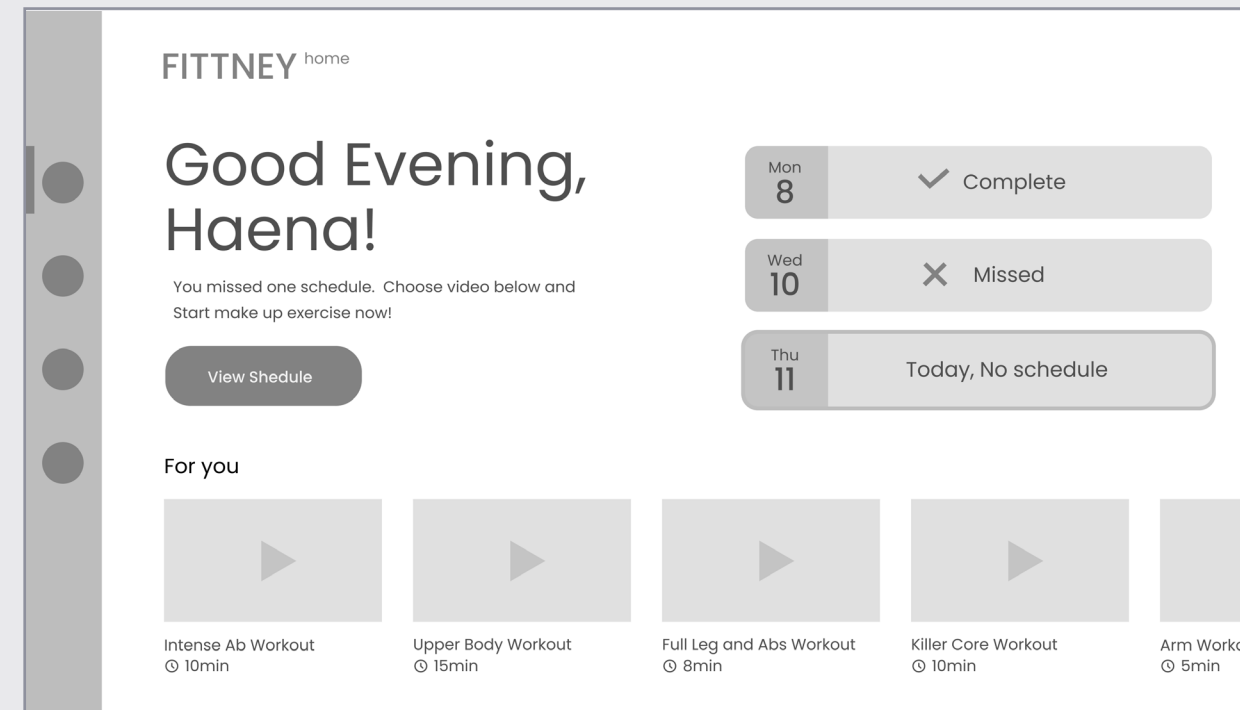Full Leg and Abs Workout
⏱ 8min

Killer Core Workout
⏱ 10min

Arm Workout
⏱ 5min
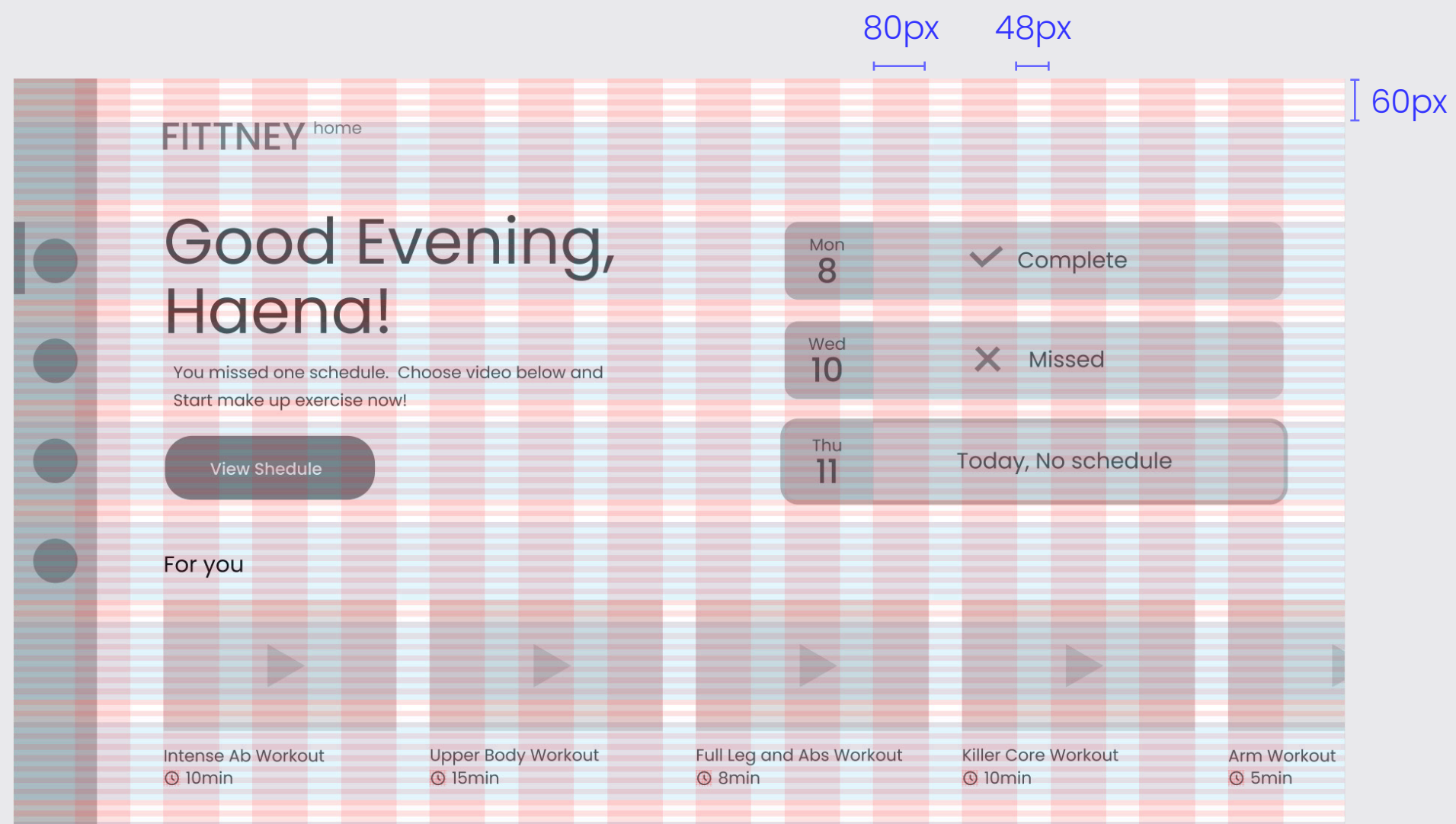
Apple TV (1920*1080)

8px rows

14 Columns (80px)

Main

FITTNEY home

Good Evening, Haena!

You missed one schedule. Choose video below and Start make up exercise now!

View Shedule

Mon 8	✓ Complete
Wed 10	✗ Missed
Thu 11	Today, No schedule

For you

Intense Ab Workout ⏱ 10min
Upper Body Workout ⏱ 15min
Full Leg and Abs Workout ⏱ 8min
Killer Core Workout ⏱ 10min
Arm Workout ⏱ 5min

Video

SIDE PLANK   FITTNEY home

30

08 : 46   00 : 15 : 37

Workout Summary

Great!
Here is the result.

These exercise helps you to improve your core strength. Strong core muscles make it easier to do most physical activities.

View Summary

↻ Restart   ↪ Finish   ↻ Next

Workout Summary_Detail

You exercised

05:36

↻ Restart   ↪ Finish   ↻ Next

Design by Haena Lee

APPLE TV

Prototype

FITTNEY home

Good Evening, Haena!

You missed one schedule. Choose video below and Start make up exercise now!

View Shedule

Mon 8	✔ Complete
Wed 10	✗ Missed
Thu 11	Today, No schedule

For you

Intense Ab Workout
🕙 10min

Upper Body Workout
🕙 15min

Arm Workout
🕙 5min

Vinyasa Power Yoga
🕙 10min

Full Leg and Al
🕙 8min

Main Screen

The screen shows the weekly schedule briefly. If users have a missed schedule, this screen notices it and recommends makeup exercise videos below. If users didn't miss schedule, the bottom section shows health tips.
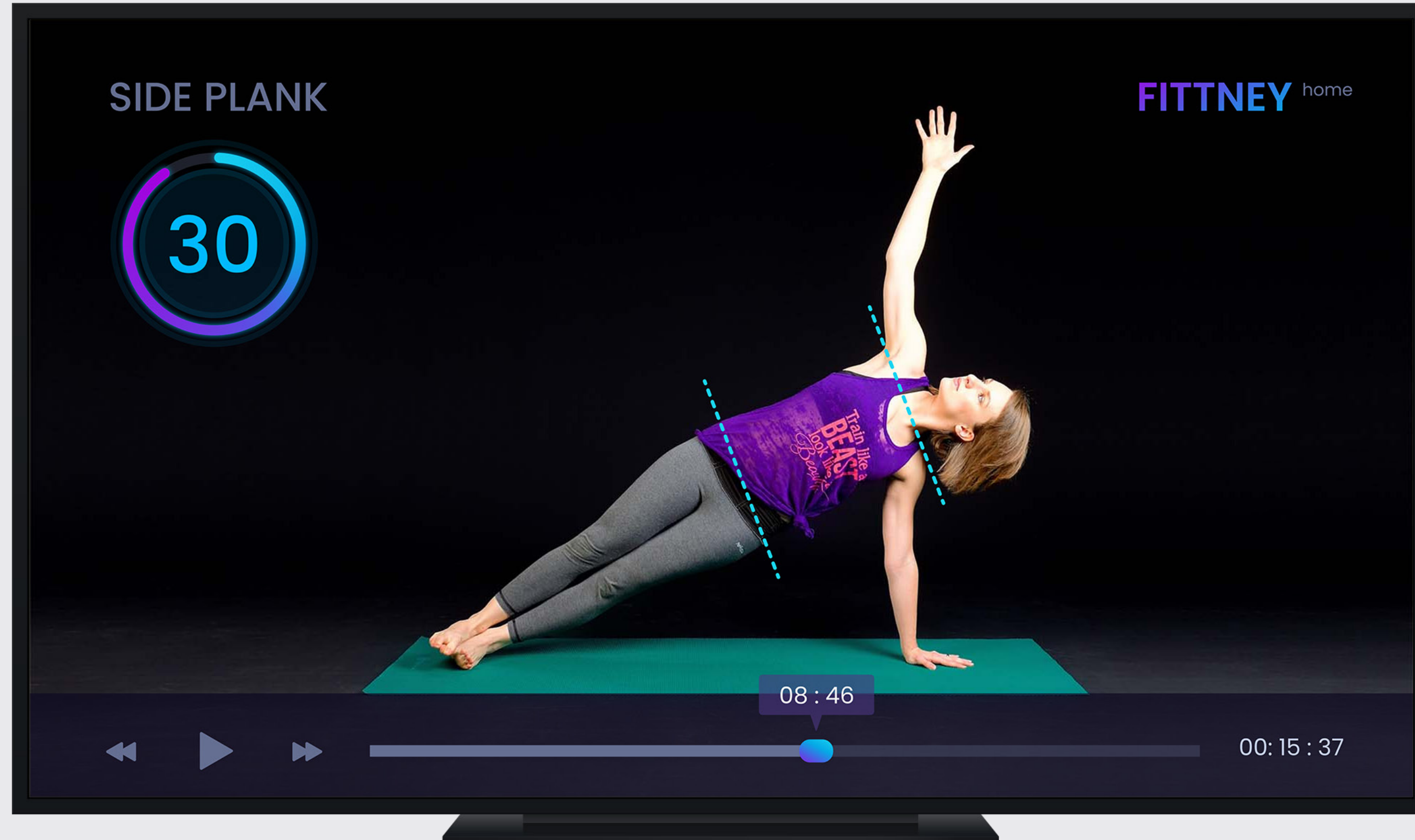
This section provide make up exercise or health tips video.
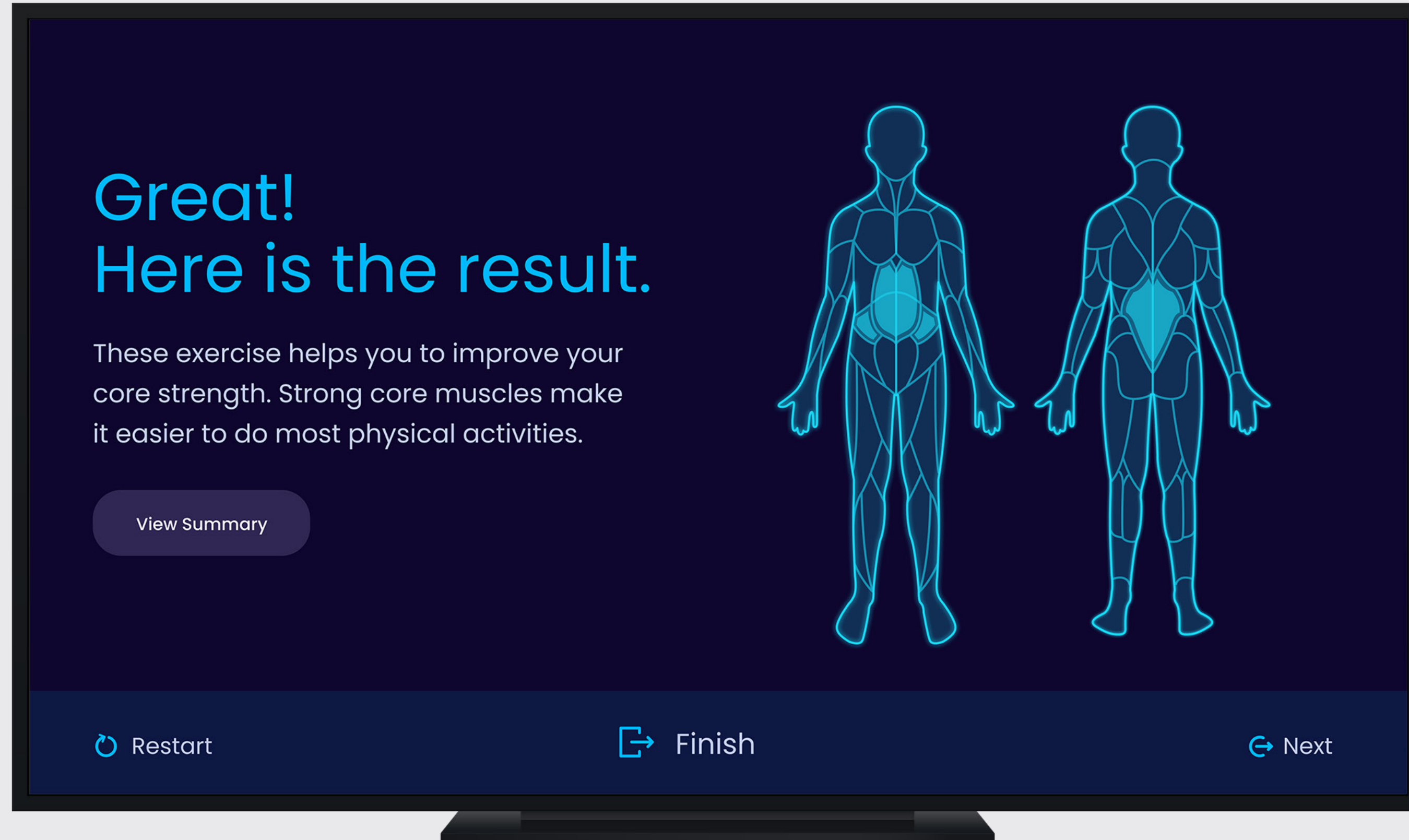
Design by Haena Lee

Prototype

Workout Video

The video screen shows the timer on the upper left screen to each exercise. Exercise tips and directions appear during the exercise to offer useful information.

Prototype

Great!
Here is the result.

These exercise helps you to improve your core strength. Strong core muscles make it easier to do most physical activities.

View Summary

Restart

Finish

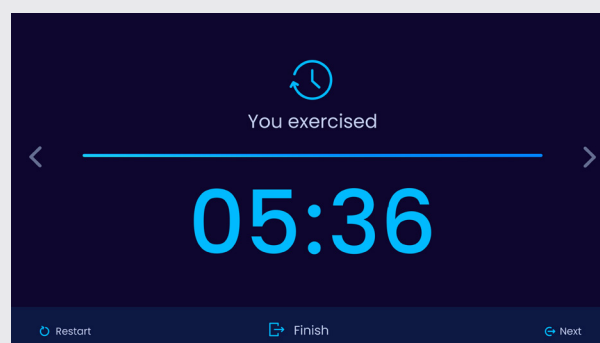Next

Workout Video

Users can see the brief result of the exercise. By simply tapping the touch panel on the remote, users can check duration, set, burned calorie and heart rate if users are wearing a smartwatch.
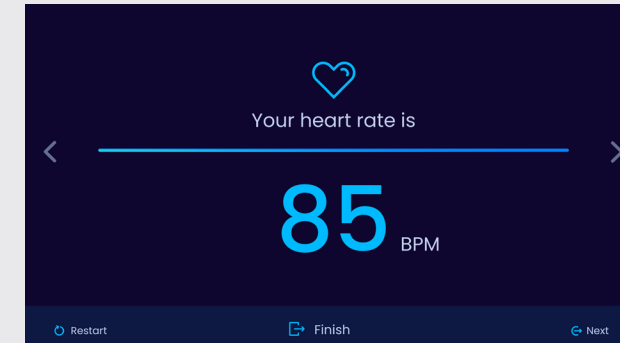
You exercised
05:36

You burned
245 kcal

Your heart rate is
85 BPM

Design by Haena Lee
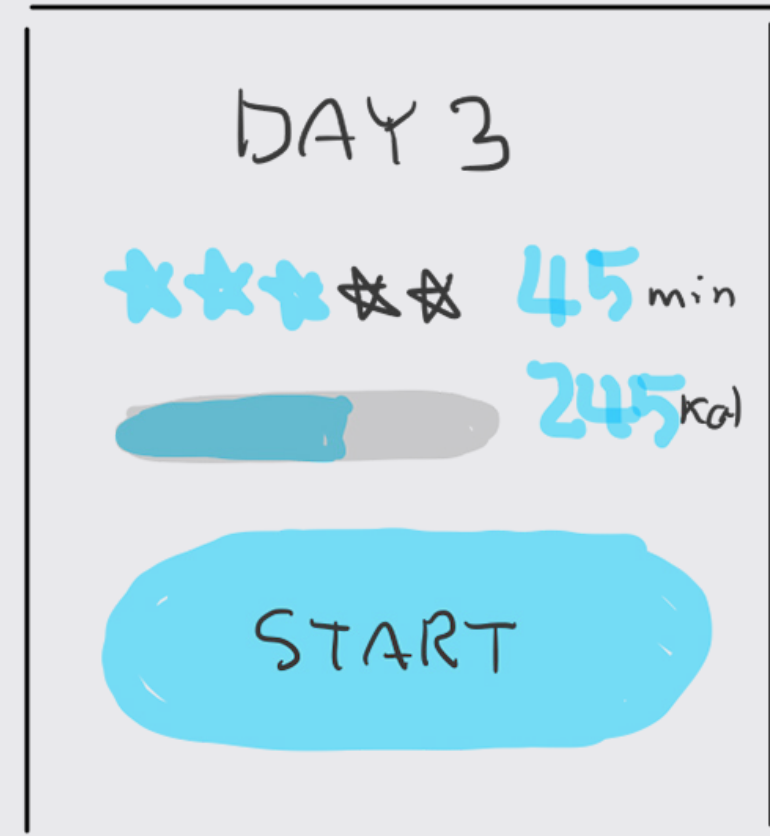
Enthusiastic User's Flow

Enthusiastic users in day 15 are really passionate to exercise and already know how to use the gym well. They don't want to use a smartphone during the exercise because they don't want to be distracted. They use a smartwatch to support their effective exercise and get a useful record at the gym.

Notification → Go to the app → Check Today's Goal and Exercise List → Delete Stretching → Start Day 15
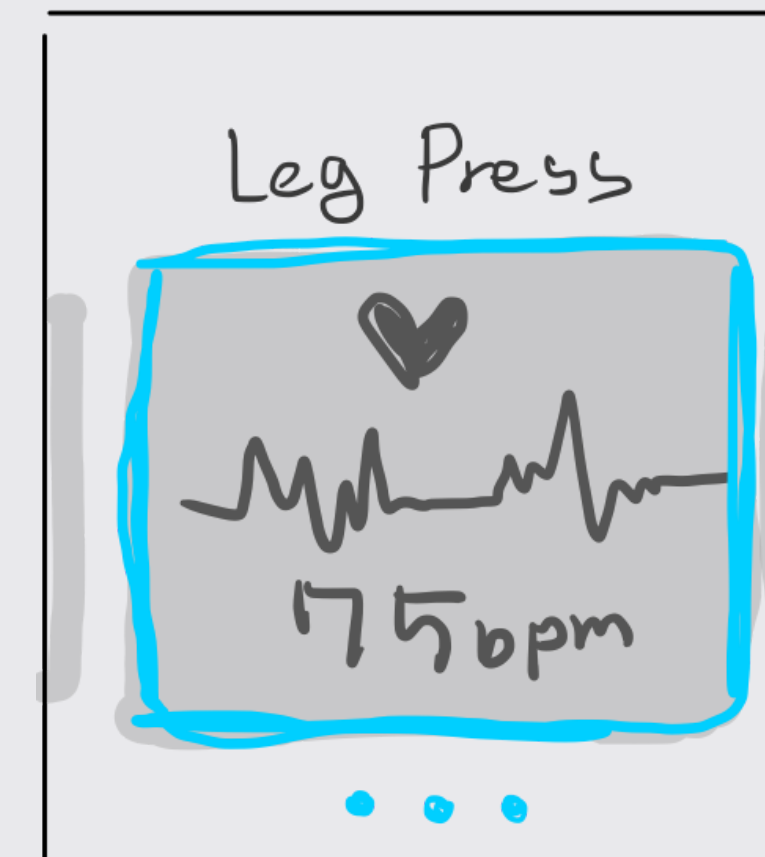
Cycling Information → Cycling Start → Timer → View Intermediate Result → Next Exercise

Sketches

Notification

Goal

Goal

Goal

Timer

Timer

Result

Result

Design by Haena Lee

Wireframe

136px　　10px

16px

Leg Press

85 bpm

Next
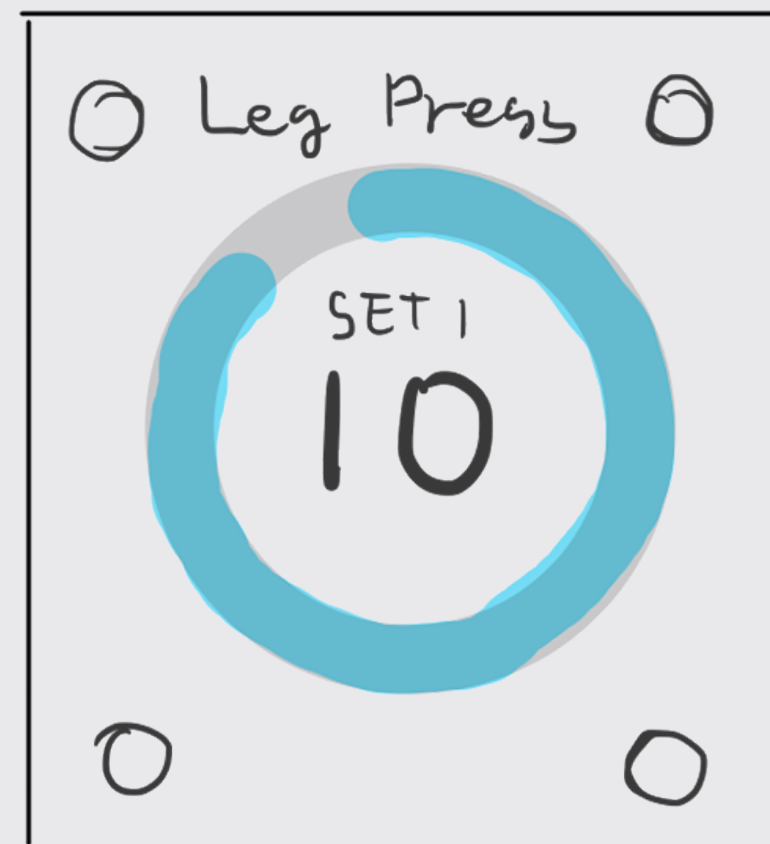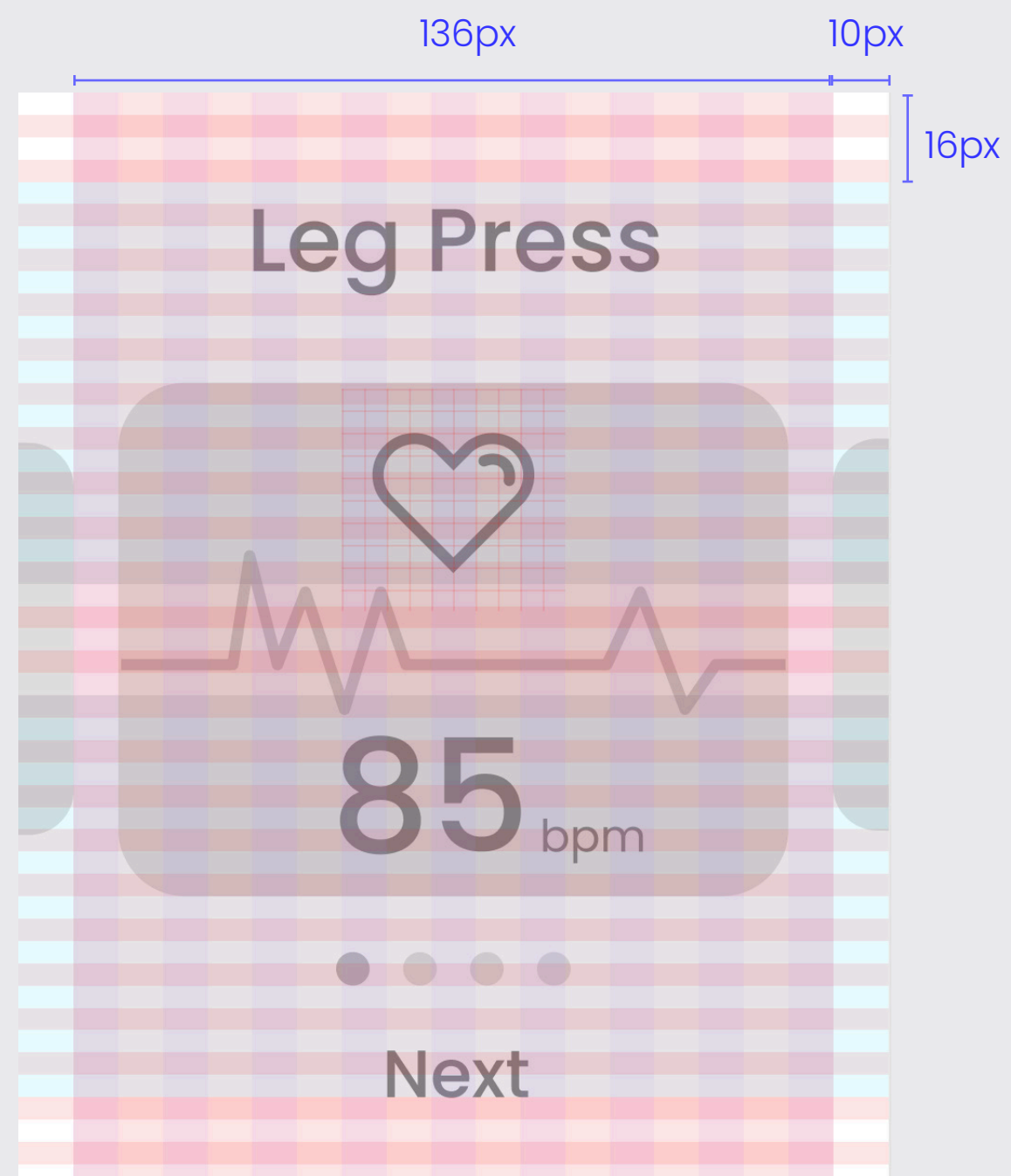
Apple Watch 42mm(156*195)

4px rows

1 Columns (136px)
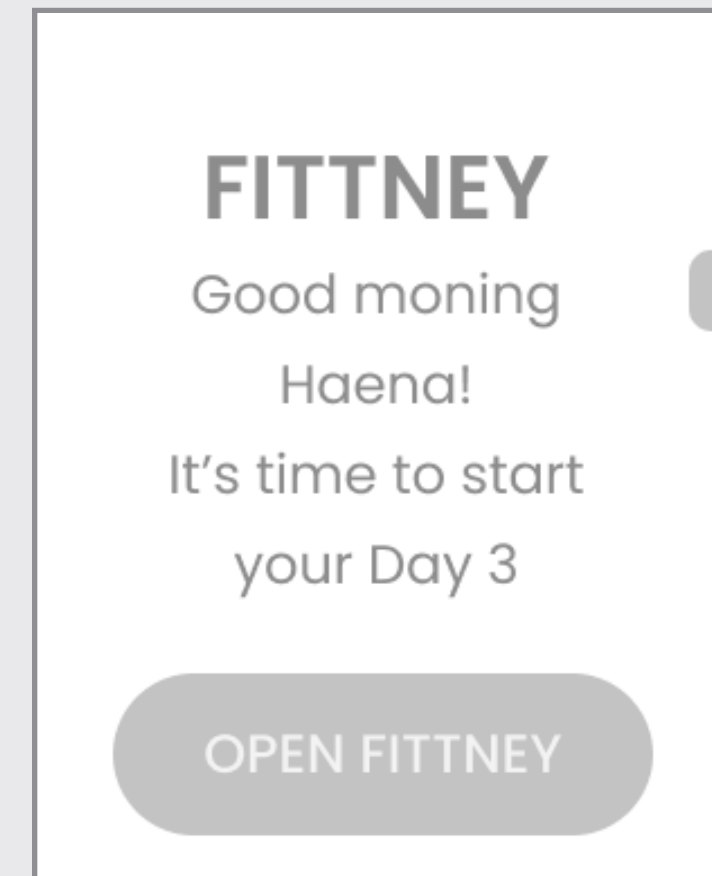
FITTNEY

Good moning
Haena!
It's time to start
your Day 3

OPEN FITTNEY

Notification

DAY 15

Stretching

🕐 5 MIN ⇄ 🗑

Exercise List

Leg Press

SET
10

Timer

Leg Press

85 bpm

Workout Summary

Design by Haena Lee

Prototype

FITTNEY

Good moning
Haena!
It's time to start
your Day 3

OPEN FITTNEY
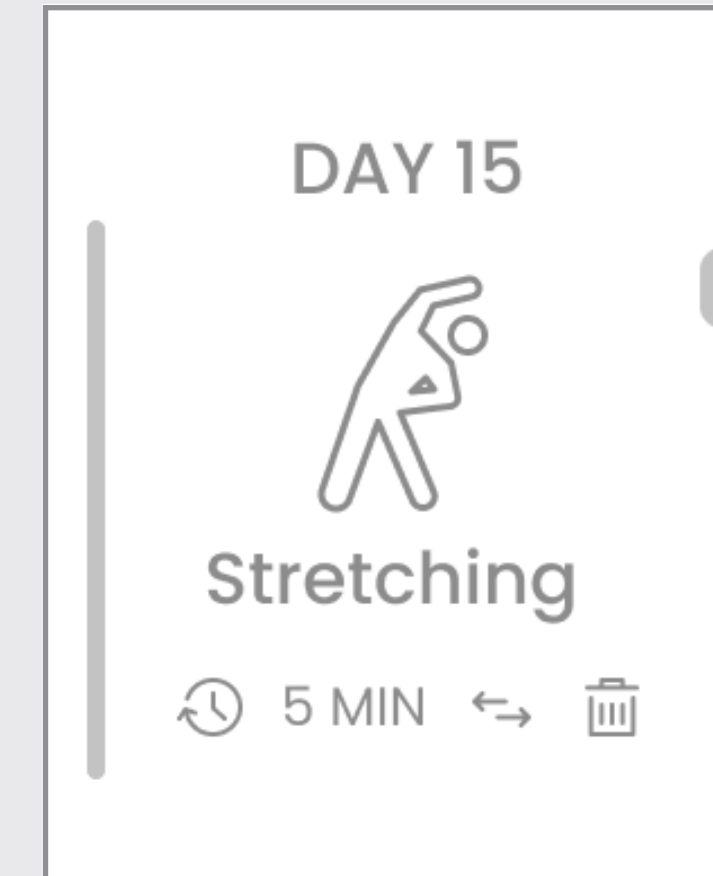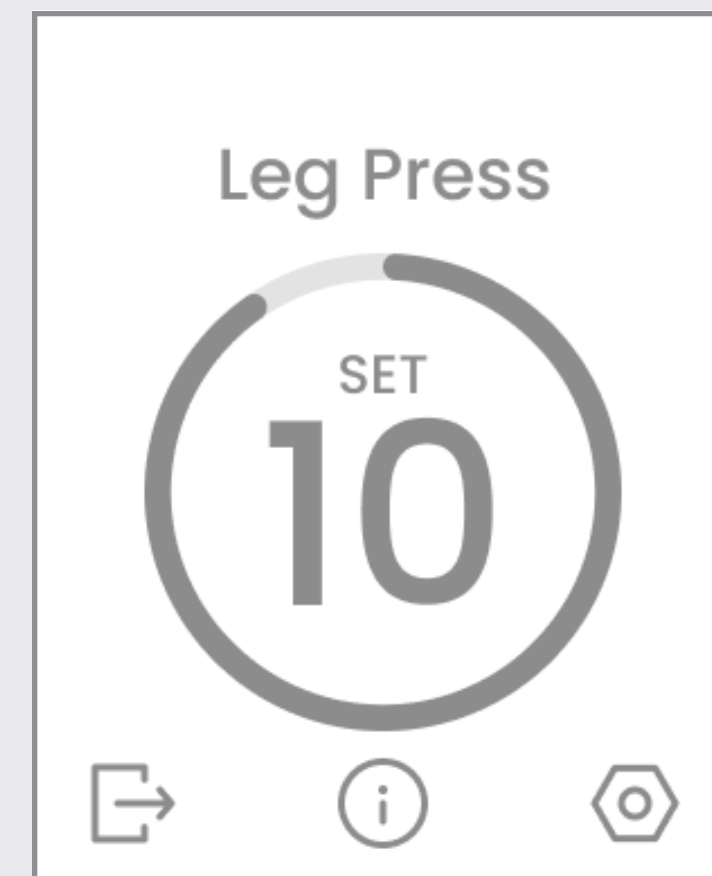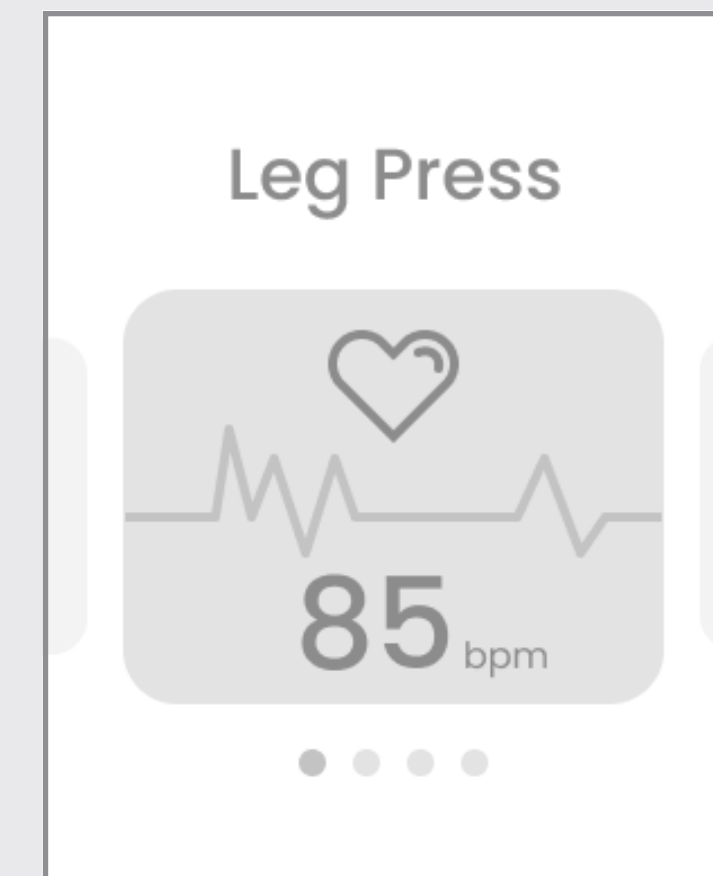
Notification

The app sends a notification before schedule time. Users also set the app to send motivation and tips.

DAY 15

Stretching

⏱ 5 MIN ⇄ 🗑

DAY 3

Stretching
⏱ 5 MIN ⇄ 🗑

Leg Press
⏱ 3 SET ⇄ 🗑

Treadmill
⏱ 5 MIN ⇄ 🗑

START DAY 3
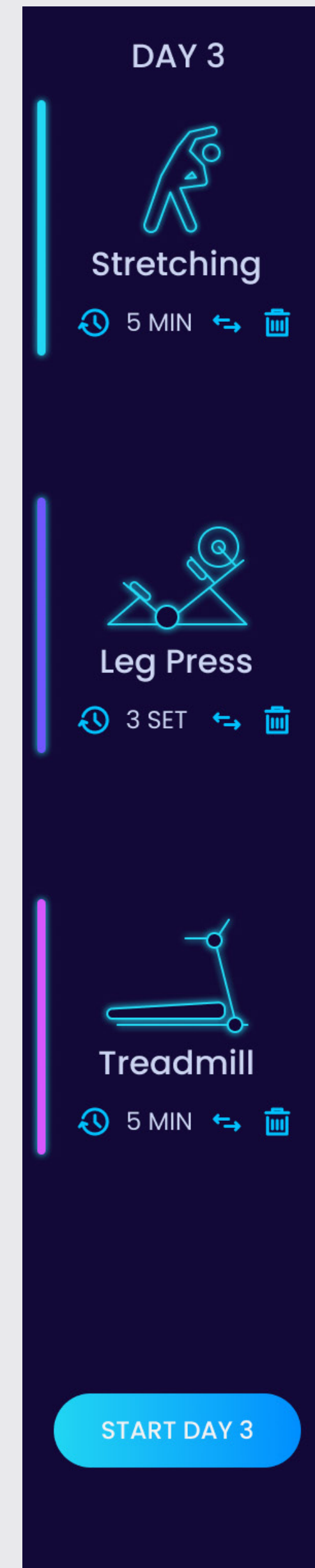
Exercise List

The screen shows today's exercise list. Users can replace and delete the exercise they don't want.

Design by Haena Lee

Shy User's Flow

Shy users n day 3 still feel overwhelmed at the gym and not familiar to use the gym yet. The biggest situation they want to avoid is roaming around the gym because they don't know what to do next and hesitate to ask someone to help.

After they enter the gym, they put earphones on, opens the app, and then just press the start button and follow the step. This will help shy users feel comfortable and boost their confidence until they get used to the gym.

Open the app → Start Day 3 Exercise → Check Today's Goals → Check Today's Exercise List → Warm Up

Leg Press → Check Tutorial → Set the Level of Activity → Set the Timer → Start and Timer starts

View Exercise Summary → Give Feedback → Next Exercise

Enthusiastic User's Flow

Enthusiastic users in day 15 are really passionate to exercise and already know how to use the gym well. They don't want to use a smartphone during the exercise because they don't want to be distracted. They use a smartwatch to support their effective exercise and get a useful record at the gym.

```
Notification  -->  Go to the app  -->  Check Today's Goal and Exercise List  -->  Delete Stretching  -->  Start Day 15

Cycling Information  -->  Cycling Start  -->  Timer  -->  View Exercise Summary  -->  Next Exercise
```

Design by Haena Lee

Inactive User's Flow

Inactive Users in day 10 prefer staying home to going to the gym so they frequently miss the gym schedule they planned to. However, because they know they need to exercise regularly for their health. They want to do makeup exercise at home and get motivation by watching their improvement and tips for health.

| Main Screen | Check Exercise Schedule | View Notification | Makeup Exercise Video List |

| Play Video | View Tutorial | Follow the exercise | View the result |

Conclusion

FITTNEY home

Good Evening, Haena!

You missed one schedule. Choose video below and Start make up exercise now!

View Shedule

Mon 8	✓ Complete
Wed 10	✗ Missed
Thu 11	Today, No schedu

For you

Intense Ab Workout
🕐 10min

Upper Body Workout
🕐 15min

Arm Workout
🕐 5min

Vinyasa Power Yoga
🕐 10min

DAY 3
Increase
Your Muscle Mass

★★★ biginner   45 min
moderate   245 kcal

START

Today's Exercise

Leg Press

♡
85 BPM

Design by Haena Lee

Source

Images

https://www.pixabay.com

https://unsplash.com

Inspiration

http://pinterest.com

https://dribbble.com/shots/5714081-Fund-App

https://dribbble.com/shots/3066746-Turbulence-of-Love

https://dribbble.com/shots/4711003-Badminton-App-Dashboard

https://dribbble.com/shots/5666960-App-Icons

Mock up

https://dribbble.com/shots/2866587-FREE-Apple-TV-Mockups

https://dribbble.com/shots/1966854-Free-Apple-Watch-Wireframe-Template-Printable

Color Accessibility Test

https://material.io/resources/color/#!/?view.left=1&view.right=0