

BETHANY CHUM
SYDNEY MORALES
KRISTY NHAN
TREVOR TANG
DANIELLA TSING

CAPSTONE 2024



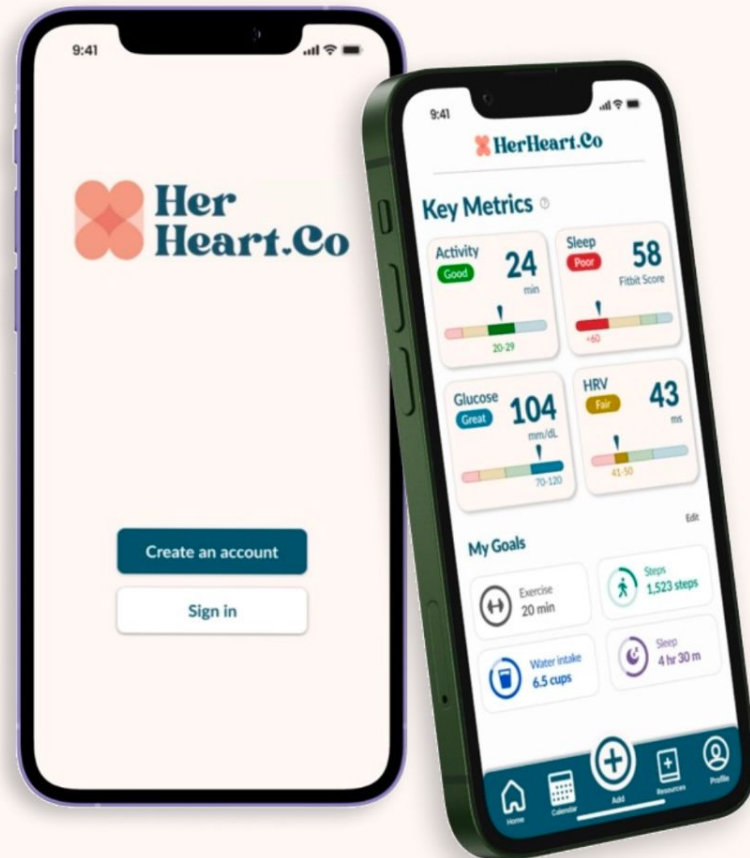
MOBILE APPLICATION

SyberTrakd

Sponsored by **HerHeartCo**

Frankie Shelton, COO

Arunidhi Sharma, CEO



+ Meet the Team



Bethany Chum

Project Manager



Sydney Morales

UX Researcher



Kristy Nhan

Full-Stack Engineer



Trevor Tang

Data Viz Engineer

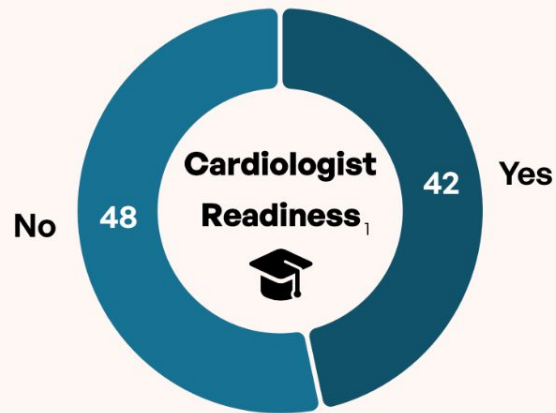


Daniella Tsing

Full-Stack Engineer

+ Problem Context

Women's health is under-researched in the medical community



Perimenopause: the time for a body to naturally transition to menopause, marking the end of reproductive years.

44 million U.S. women are in perimenopause

Heart risk **DOUBLES** during this period!

Problem Statement

HOW MIGHT WOMEN IN THEIR 40-50'S GOING THROUGH PERIMENOPAUSE ACHIEVE A REDUCTION OF SYMPTOMS AND PREVENTION OF CVD IN THE LONG-TERM AND ULTIMATELY RAISE AWARENESS OF SEX-SPECIFIC WARNING SIGNS OF CVD?

+ Research Insights

MARKET



Actionable Information
Immediate Feedback
Accurate Visualizations

USER RESEARCH



Favorable Perceptions of
Wearable Devices

USER TESTING



Cohort Testing
Clear Navigation
Separation of Information

Sandra

Registered Nurse (52)



"Although I work in healthcare, I have a hard time tracking my symptoms due to the busy-ness of balancing my time working, volunteering, and spending time with my husband..."

"I often worry about developing breast cancer and CVD because many of the older women in my family went through tough treatments."

Amy

Elementary School Teacher (45)



"I don't have enough time to research how to take care of my heart health, and when I do, I struggle to find answers online because of the lack of verified medical research done on female heart health."

+ Key Concepts

CONVENIENCE



**Monitor your health
in the comfort of your own
home**

AWARENESS



**Gain understanding of
women-specific warning
signs**

EDUCATION



**Access resources on
cardiovascular health and
prevention**

CONCEPTS

CONVENIENCE



AWARENESS



EDUCATION



SOLUTIONS

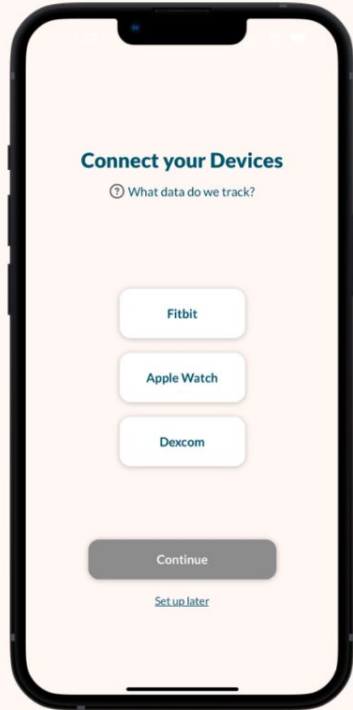
DATA VISUALIZATIONS AND
RESOURCES TO QUICKLY ASSESS
ONE'S HEALTH

TRACK CVD-RELATED SYMPTOMS
WITH PERIMENOPAUSAL WOMEN
IN MIND

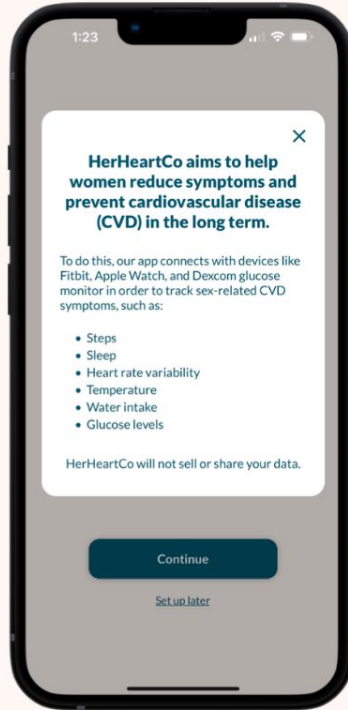
COMMUNITY FORUMS AND
PERSONALIZED RECOMMENDATIONS

SOLUTION

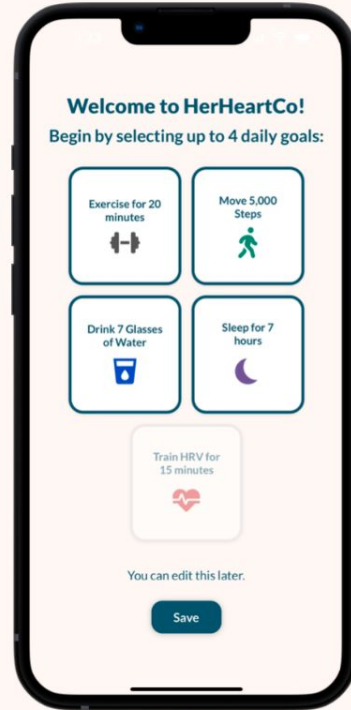
+ Wearable Technology & Onboarding



Sync to Devices



Health Metric
Data Disclaimer

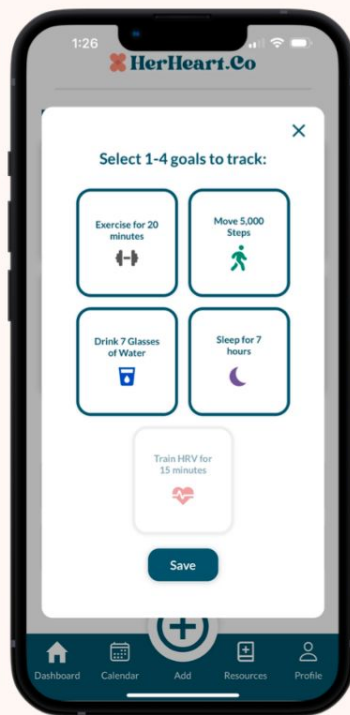


Onboarding Goals

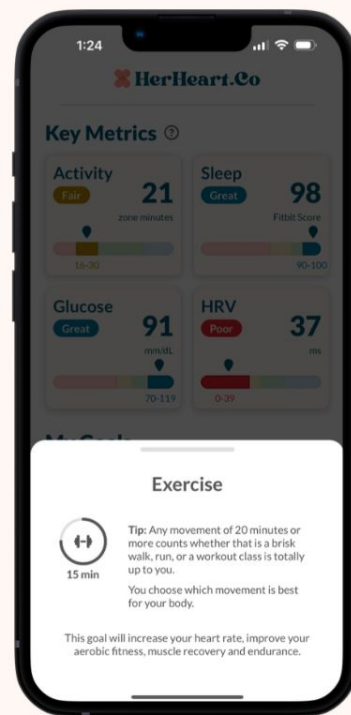
+ Dashboard & Goals



Dashboard

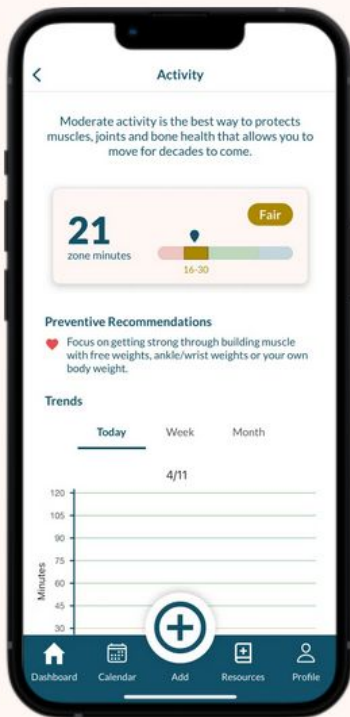


Daily Goals

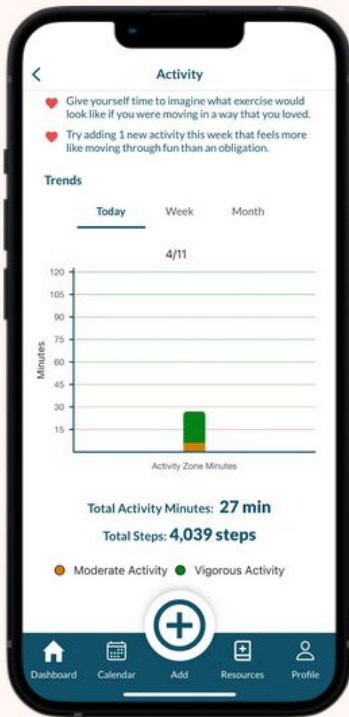


Daily Goals : Tips

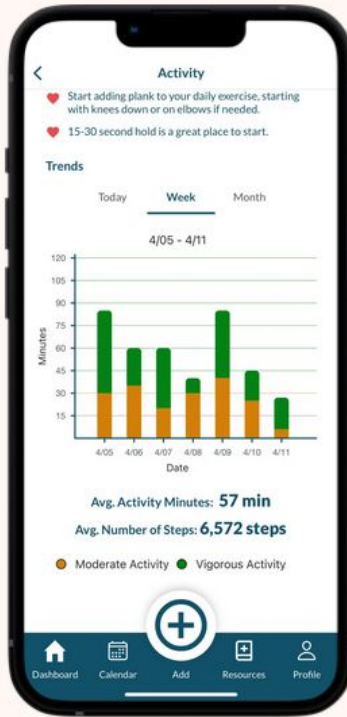
+ Key Metrics & Recommendations



Health Metric Insights & Preventive Recommendations



Daily Metric Visualization



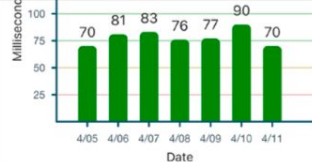
Weekly Metric Visualization



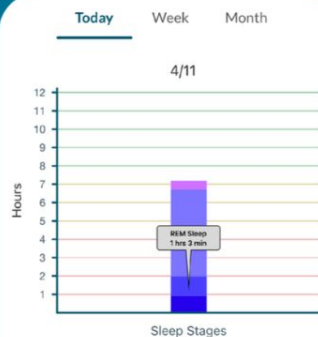
Monthly Metric Visualization

+ Data Visualizations

- Key Metrics
- Time Range
- Colors
- Tooltips
- Summaries



Avg. HRV: 78.1 ms



Time Asleep: 6 hrs 43 min

● Deep ● REM
● Light ● Awake



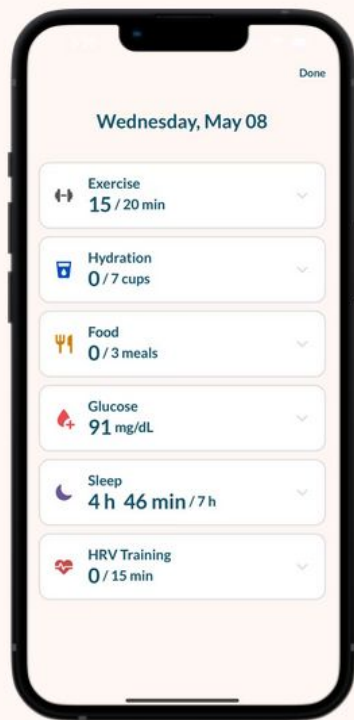
Avg. Time Asleep: 6 hrs 57 min



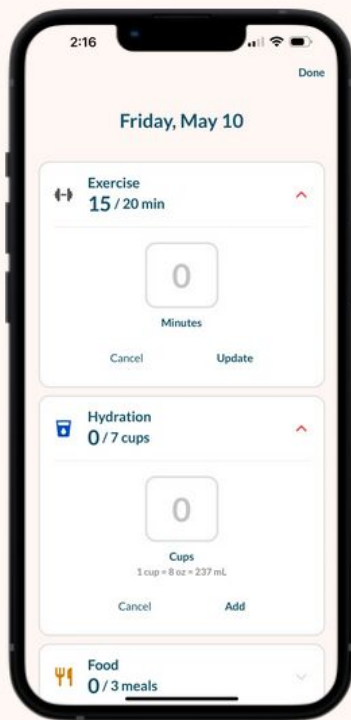
Avg. Glucose Level: 95.4 mg/dL



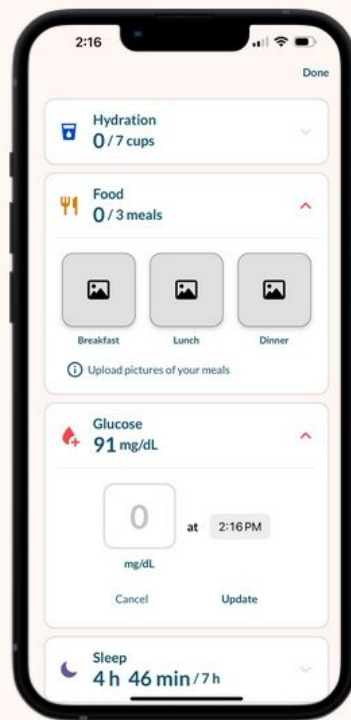
+ Add Screens



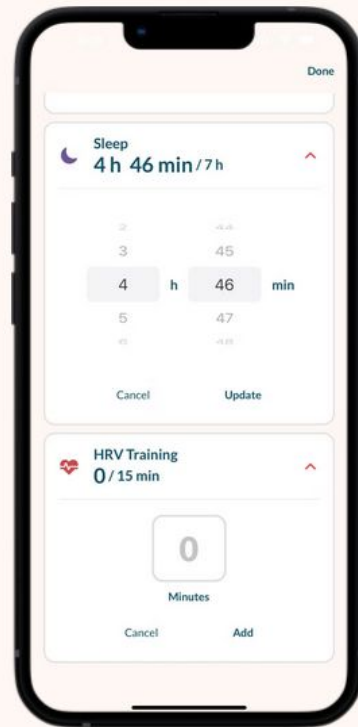
Landing



Exercise & Hydration



Food & Glucose

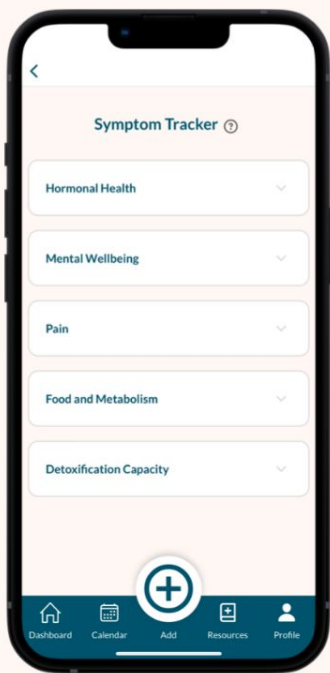


Sleep & HRV

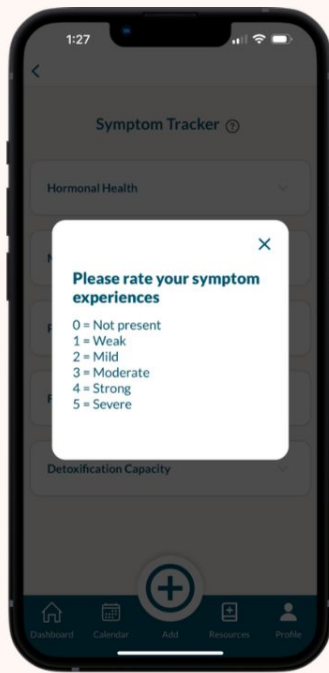
+ Profile & Resources



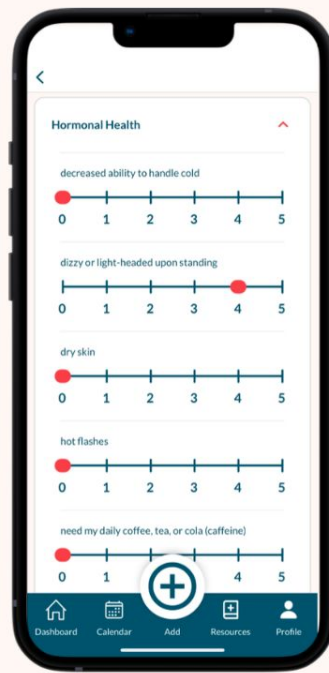
Profile



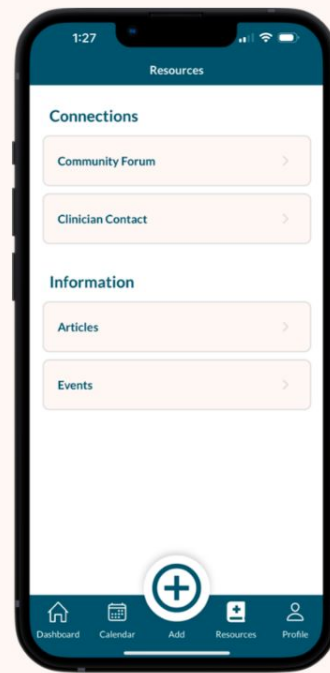
Symptom Tracker



Clarification



Expanded View



Resources

DEMO VIDEO

DESIKAY CHAM
ONISY MOVALE
KROTY NEMO
TBE KCH MMG
OMAB LLA TONRO

EMVOTRE 3C2H



MOBILE APPLICATION

SyberTrolid

Sponsored by HerHeartCo

Finesh Muthu, CEO

Arunthi Suresh, CEO



ETHICAL CONSIDERATIONS

CONCERNS

PRIVACY & SECURITY

POTENTIAL EXPOSURE OF PERSONAL
INFORMATION / DATA LEAK



ACCESSIBILITY

IN THE UI/UX DESIGN



INACCURACY

USER INPUT AND ENGAGEMENT



MITIGATION

GOOGLE CLOUD / FIREBASE
SECURITY FEATURES

EASY TO NAVIGATE PROCESS AND
SIMPLICITY OF APPLICATION

EMPHASIZE OUR ACTIONABLE
RECOMMENDATIONS RELY ON THEIR
HONESTY

+ Next Steps

CALENDAR IMPLEMENTATION



Implement an interactive
calendar for improved
over-time trends

SYMPTOM TRACKER



Developing backend
system to collect
symptom tracker data

BI-DIRECTIONAL USAGE



Facilitating both
providers and patients
application usage

THANK YOU!

