

# Masimo Watch W1

Healthcare

Mobile

Watch



# Watch



# App



# Processes

# Team



3 UX Researchers

2 Project Managers

1 UX Sr Director      1 Design Manager

2 UX Designers      3 Industrial Designers






5-6 Engineers

4-5 Marketing

# Problem

How to intrigue target users and stand out from the strong competitors

# How can we stand out?

	Motive for owning	Setup & Pairing	Wake up and use frequency	Physical activities	Other data tracked	Sleep tracking	Sharing	Charging	Watch features & other uses	External apps	Dedicated mobile app	Importance of data security	Importance of measurement accuracy
 <ul style="list-style-type: none"> <li>Apple Watch 6</li> <li>Female</li> <li>27</li> <li>2 months</li> </ul>	<ul style="list-style-type: none"> <li>Durability</li> <li>- Past negative experience with Fitbits falling apart</li> <li>Measurement capability - O2, heart rate, ECG</li> <li>Used Apple points</li> <li>Integration with other devices</li> <li>Watch design</li> </ul>	<ul style="list-style-type: none"> <li>Setup notifications</li> <li>Limit notifications with Fitbits falling apart</li> <li>Pairing issue ambiguous (wouldn't connect)</li> </ul>	<ul style="list-style-type: none"> <li>Haptic alarm wakes her up</li> <li>Welcome message greets her</li> <li>Sees time, weather, and remaining battery</li> <li>Upcoming appointments</li> <li>Wears all day, other than shower</li> <li>Looks at watch more than phone now</li> </ul>	<ul style="list-style-type: none"> <li>Goals: - 45 min exercise daily</li> <li>Planes</li> <li>- Wishes more distinction between different types</li> <li>Tracks activity, sets, flights of stairs</li> <li>Heart Rate - use to increase/decrease workout intensity</li> <li>Walking - GPS tracking, watch shows pace as red, yellow, green and she picks up.</li> </ul>	<ul style="list-style-type: none"> <li>Standing activity</li> <li>Heart arrhythmia</li> <li>Steps</li> <li>O2, periodic auto collect doesn't look at it frequently or use, "fun to see it"</li> <li>Activity info for workout</li> <li>Uses rings feature for tracking</li> <li>BP Monitoring</li> <li>Likes to fill the "rings" (calories, exercise, stand)</li> </ul>	<ul style="list-style-type: none"> <li>Wears when sleeping</li> <li>Sleep app</li> <li>Had issues with headaches, initially used sleep app for this</li> <li>cohesive with alarms and sleep schedule" - sends bedtime reminders</li> </ul>	<ul style="list-style-type: none"> <li>Doctor - shared in person, screen, general activity levels, O2, minutes of exercise a day</li> <li>When static, at desk</li> <li>Lasts a day and a quarter</li> <li>Friend - Ring data, activity notifications</li> </ul>	<ul style="list-style-type: none"> <li>Average once a day</li> <li>During morning or shower</li> <li>When static, at desk</li> <li>Lasts a day and a quarter</li> </ul>	<ul style="list-style-type: none"> <li>Timer - cooking, self care routines</li> <li>News</li> <li>Work &amp; phone notifications</li> <li>Maps</li> <li>Apple Pay</li> <li>Digital assistant Siri</li> <li>Separate Cellular/wifi</li> </ul>	<ul style="list-style-type: none"> <li>Zombies, Run! App</li> <li>Likes the motivation it gives</li> </ul>	<ul style="list-style-type: none"> <li>Apple health app to share health with doctor</li> </ul>	<ul style="list-style-type: none"> <li>Not concerned with data privacy more than usual - not sure what people would do with health record</li> <li>Uses airplane mode</li> </ul>	<ul style="list-style-type: none"> <li>Expects accuracy, but not perfection (80% correct)</li> </ul>
 <ul style="list-style-type: none"> <li>Garmin Vivoactive</li> <li>Male</li> <li>30</li> <li>9 months</li> </ul>	<ul style="list-style-type: none"> <li>Upgrade previous device</li> <li>On sale</li> <li>Wanted GPS feature for runs</li> <li>Good reviews</li> <li>Fan of brand, customer service</li> <li>Durability of devices</li> </ul>	<ul style="list-style-type: none"> <li>No connection issues</li> <li>Measurement info requested during setup, could skip but no issue entering</li> </ul>	<ul style="list-style-type: none"> <li>Wakes up with separate phone based alarm</li> <li>Wears watch all day</li> <li>Completely satisfied, if broke would get another</li> </ul>	<ul style="list-style-type: none"> <li>Goals: - PreCovid: 5/10k marathon</li> <li>- Current: to stay in shape</li> <li>Running - meet a certain distance a week</li> <li>- GPS location, mapping path, distance, uploading to Strava, "why I have the watch"</li> <li>Cycling</li> <li>Strength train - bodyweight, kettleball</li> <li>Water resistance important, sweating</li> </ul>	<ul style="list-style-type: none"> <li>Daily steps</li> <li>Heart rate</li> <li>GPS not good when cloudy, or certain times doesn't work</li> <li>Stationary notification - gets up if alerted</li> <li>During runs, looks at pace to modify his speed to meet goal</li> <li>Elevation</li> </ul>	<ul style="list-style-type: none"> <li>Initially wore watch during sleep for sleep tracking</li> <li>Doesn't use sleep tracking now</li> <li>"maybe I don't understand it", doesn't know what to do with info</li> <li>If I take off watch its for sleep</li> </ul>	<ul style="list-style-type: none"> <li>Strava activity, run distance - can receive "kudos" from others</li> <li>- run areas can become competitive, with leaderboards</li> <li>Choose to share to followers, passively shares through app when collected</li> <li>- run time/distance, path</li> </ul>	<ul style="list-style-type: none"> <li>Average once a day</li> <li>During shower</li> <li>Morning or before bed</li> <li>From 20-80% in 15 minutes</li> <li>Charging battery "a little annoying"</li> <li>GPS drains battery, other watch charged once a week"</li> <li>wont use GPS if battery low</li> <li>One day full use is acceptable, 2 days would be ideal</li> <li>Standardize charge port</li> </ul>	<ul style="list-style-type: none"> <li>Phone notifications - reads, doesn't respond on watch but likes he can't - wants to manually input response, feels stock ones limited</li> <li>Step watch/timer - activities requiring a certain time limit to do - time management, clean</li> <li>Customizable watch face, bands</li> <li>No speaker - not important</li> <li>Song switching with run</li> <li>App are like "social media" sites</li> <li>Nike training app, - Routing/workout info - not connected to watch</li> </ul>	<ul style="list-style-type: none"> <li>Strava - motivates to be active - Follows athletes, friends - Seeing their activity - On phone</li> <li>Swift - indoor cycling - motivates like game, has avatar</li> <li>510 a month</li> <li>App are like "social media" sites</li> <li>Nike training app, - Routing/workout info - not connected to watch</li> </ul>	<ul style="list-style-type: none"> <li>Garmin Connect - infrequent use</li> <li>- For setup, add watch face-to track run stats, distance per heart rate average</li> <li>uses strava/swift more</li> <li>Expected to see: - summary of current day activity, or previous day activity, or previous day activity, or previous day activity</li> <li>proximity to daily goals</li> <li>Overall uses strava, data he wants to see is in this app - uses Strava over Garmin for social media</li> </ul>	<ul style="list-style-type: none"> <li>Important for banking info, passwords</li> <li>Ok sharing activity locations, not too personal</li> <li>Doesn't mind that being shared</li> <li>Ok with info collected if it improves watch</li> </ul>	<ul style="list-style-type: none"> <li>Doesn't have to be exact - especially with heart rate</li> <li>Expects close, hopefully fairly accurate</li> <li>Doesn't need exact measurements</li> <li>"I'm not a professional athlete"</li> <li>Likes reliability, no glitches</li> </ul>
 <ul style="list-style-type: none"> <li>Apple Watch 6</li> <li>Female</li> <li>46</li> <li>4 months</li> </ul>	<ul style="list-style-type: none"> <li>Missed previously returned Apple Watch 3 - returned due to cost - felt she was wearing "another phone"</li> <li>Wanted O2 awareness (thinks had covid in March)</li> <li>Owned a Misfit device, lost it</li> </ul>	<ul style="list-style-type: none"> <li>Unboxing was great, packaging pleasing</li> <li>Starting up and syncing product was easy</li> <li>Feels it was a streamlined process</li> <li>Wishes she managed what apps carried into it better during setup - currently overwhelmed by apps</li> </ul>	<ul style="list-style-type: none"> <li>Haptic alarm wakes her up, but stays in bed until phone alarm - doesn't mind it</li> <li>Usually wears all day, during night</li> <li>Feels like she's "in the apple club"</li> </ul>	<ul style="list-style-type: none"> <li>Outdoor cycling</li> <li>Elliptical</li> <li>Core, free weight training</li> <li>Yoga, pilates</li> <li>Circuit training</li> <li>Walking</li> <li>Plans water activity, expects water resistance</li> </ul>	<ul style="list-style-type: none"> <li>HR - looks during elliptical and burpees, lower activity if too high</li> <li>Not sure what rings are about</li> <li>Calories</li> <li>O2 - doesn't check a lot, but would go to hospital if alerted</li> <li>Wants better diet tracking in watch, but she may be unaware of ability to do so</li> </ul>	<ul style="list-style-type: none"> <li>Doesn't do this</li> <li>Tried, but doesn't use the data</li> </ul>	<ul style="list-style-type: none"> <li>Lose It! and Peloton apps will passively share data</li> <li>Doesn't look at shared data</li> <li>Not sure what to share or why</li> </ul>	<ul style="list-style-type: none"> <li>Once a day</li> <li>During showers</li> <li>Only takes 15-20 minutes to charge</li> <li>Satisfied with charging</li> </ul>	<ul style="list-style-type: none"> <li>So many apps, confusing, limits use of watch</li> <li>Breathing exercise reminder is annoying</li> <li>Startup notifications annoying, watch can't tell she was active earlier</li> <li>Favorite: seeing the time</li> <li>Likes controlling next song playing on external speaker</li> <li>Connection to other apple devices</li> <li>Social media, weather, notifications</li> <li>Watch design</li> </ul>	<ul style="list-style-type: none"> <li>Weight watchers - enter foods into a point system</li> <li>Says apple doesn't have this, but thinks they could "blow others out of the water" if they tried</li> <li>Peloton for exercise routines</li> <li>Lose It App, meal tracking - can't figure out if she can get app on watch itself</li> </ul>	<ul style="list-style-type: none"> <li>Apple watch app - expects to see HR, O2, steps, history</li> <li>Looks at calorie circle, but uses other apps more</li> <li>wishes it had fitness program, workout vids, like weight watchers</li> <li>Follows trainers on instagram, live workouts</li> <li>Would be cool if Apple fitness had something to make accessing workouts easier</li> </ul>	<ul style="list-style-type: none"> <li>Worries about data security, but doesn't do much to secure it herself</li> <li>Banking info is most important to secure</li> <li>More concerned about phone security than watch</li> <li>Not concerned with fitness or health info</li> </ul>	<ul style="list-style-type: none"> <li>Expects accuracy, on previous Misfit it would incorrectly input</li> </ul>
 <ul style="list-style-type: none"> <li>Fitbit Blaze</li> <li>Female</li> <li>23</li> <li>2 years</li> </ul>	<ul style="list-style-type: none"> <li>Used device from ebay</li> <li>Price important, doesn't want to pay more than \$500</li> <li>Mother had two Fitbit Versas</li> <li>Owned series 1 apple watch but wasn't fitness focused - all she cares about is steps</li> <li>Watched videos on youtube</li> </ul>	<ul style="list-style-type: none"> <li>Easy setup</li> <li>Had a previous fitbit account where tracking was from phone</li> <li>Just chose to add watch from app</li> <li>Both apple watch and fitbit pairing processes were "simple and to the point"</li> </ul>	<ul style="list-style-type: none"> <li>Wears for walking but not to sleep</li> <li>Only wears during day</li> </ul>	<ul style="list-style-type: none"> <li>Main watch purpose is the tracking step count</li> <li>3-4 times a week</li> <li>3-4 miles a hike</li> <li>Not sure how far she's going without this tracking</li> <li>Did crossfit but no use of fitbit</li> <li>Watch not water resistant</li> </ul>	<ul style="list-style-type: none"> <li>HR - stopped looking at it because she didn't know what to do with it being high</li> <li>Stress tracking</li> <li>Stressful year, likes being told to breathe</li> </ul>	<ul style="list-style-type: none"> <li>Doesn't track sleep anymore</li> <li>Doesn't wear to sleep</li> <li>Used it to track sleepiness of sleep when having headaches</li> <li>haven't since pandemic - didn't know what to do with info</li> </ul>	<ul style="list-style-type: none"> <li>Liked fooducate's community of people sharing what they are eating</li> <li>Favorite thing: fitbit phone app shareable challenges - old coworkers or friends would challenge each other to meet similar fitness goal</li> </ul>	<ul style="list-style-type: none"> <li>Once every 4 days</li> <li>Charges at night</li> </ul>	<ul style="list-style-type: none"> <li>Tracked period, doesn't have it loaded currently</li> <li>For camping</li> <li>Didn't like apple watch telling her to step up, she only cares about steps</li> <li>Wants watch to look like a watch</li> <li>Text message notifications</li> <li>Wishes she could log food into watch</li> <li>Would be nice to have more watch face options, currently just black and white screen</li> </ul>	<ul style="list-style-type: none"> <li>Uses fooducate, but it asks for a lot of detail</li> <li>Doesn't like Fitbit's manual food/calorie tracking</li> <li>Wants to be specific with what she's eating, but not all the detailed info (just calories)</li> <li>Didn't like how My Fitness Pal app would open separate safari window</li> </ul>	<ul style="list-style-type: none"> <li>Fitbit app is simple, one all inclusive app</li> <li>Didn't like the multiple apps required by apple</li> <li>Looks at it whenever she wants to see steps</li> <li>Likes that the fitbit just "does its thing", doesn't interfere</li> </ul>	<ul style="list-style-type: none"> <li>After a previous data breach, she's less concerned</li> <li>"when you opt into something you have to be willing to accept the repercussions"</li> <li>She accepts risk, since data doesn't seem that important</li> </ul>	<ul style="list-style-type: none"> <li>Really important for competitions, don't want to miss steps for that</li> <li>Has been concerned with the accuracy degrading over time</li> <li>Not sure if would pay for more accurate, would need evidence of how much more accurate</li> </ul>
 <ul style="list-style-type: none"> <li>Samsung Galaxy W</li> <li>Male</li> <li>36</li> <li>2 years</li> </ul>	<ul style="list-style-type: none"> <li>Had Mi Band 3 step tracker, given to son</li> <li>Likes look of watch, 46mm bezel</li> <li>Likes usability and flexibility of Samsung "if I want to brick my watch let me do it"</li> </ul>	<ul style="list-style-type: none"> <li>No feedback</li> </ul>	<ul style="list-style-type: none"> <li>Wakes up with phone or watch</li> <li>Watch buzzes at 4, snoozes until 5</li> <li>Checks heart rate over course of night</li> <li>Sleep efficiency</li> </ul>	<ul style="list-style-type: none"> <li>Bike rides with son</li> <li>Walking and tracking steps</li> <li>Goal: - Lose weight - wants to hit watch activity goal every day -met 85% of set step goal daily</li> <li>Uses for swimming and shower</li> </ul>	<ul style="list-style-type: none"> <li>Steps, steps goals</li> <li>Activity goals a mounts</li> <li>Stress tracking</li> <li>Stressful year, likes being told to breathe</li> </ul>	<ul style="list-style-type: none"> <li>Likes seeing if he had deep sleep</li> <li>Most interested in seeing heart rate through night</li> <li>Looks at data every morning</li> </ul>	<ul style="list-style-type: none"> <li>Verbal exchange of workout or activity challenges with sister (personal trainer)</li> </ul>	<ul style="list-style-type: none"> <li>At work during meetings</li> <li>Multiple chargers, kitchen, bedroom, office, car</li> <li>2 days of use before 15% notification</li> <li>Charges every day to be safe</li> <li>2-2.5 hours to full charge</li> <li>Doesn't interfere with goals since data syncs from phone</li> <li>Might miss a few hundred steps</li> </ul>	<ul style="list-style-type: none"> <li>Likes calendar notifications</li> <li>Takes calls on watch</li> <li>Most used feature is voice to text</li> <li>Music control to external speaker while in shower</li> <li>Find my phone feature</li> <li>Doesn't understand baby, doesn't like it, interferes - wishes it had alexa integration through phone</li> <li>Wishes it had caloric, food, water tracking - admits it might have it, but hes not aware</li> </ul>	<ul style="list-style-type: none"> <li>Facebook Messenger is only external app, for message notifications</li> <li>Wants to add family link app for tracking his son</li> </ul>	<ul style="list-style-type: none"> <li>Interacts with app when watch or app needs to update</li> <li>When he has needs to add a different song</li> <li>Samsung health more used than watch app - uses for changing health goals (activity, step)</li> <li>Expects to see where he is in relation to daily fitness goal - would like for it to tell him if hes not doing something he should to meet a goal</li> </ul>	<ul style="list-style-type: none"> <li>90% important</li> <li>Has nothing to hide</li> <li>"if people want your info they get it"</li> <li>No data on watch hes concerned with people getting</li> </ul>	<ul style="list-style-type: none"> <li>Great, but 80% important</li> <li>If its not exactly right its not a big problem</li> <li>Gives you an understanding of what you are doing</li> </ul>

We Need

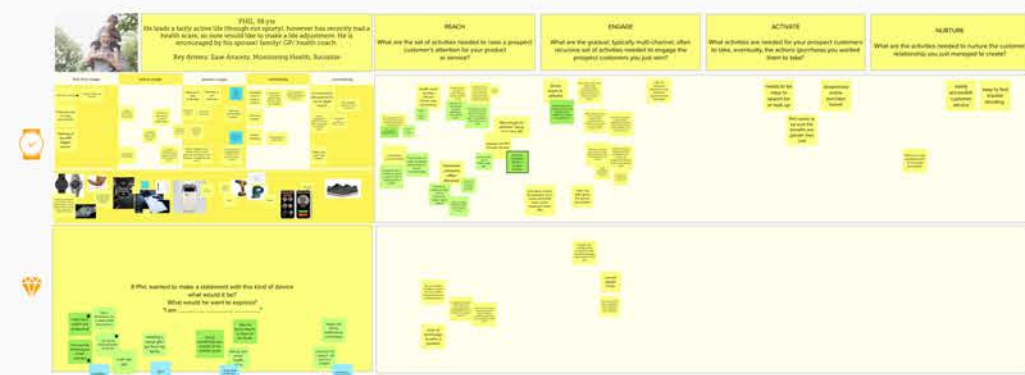
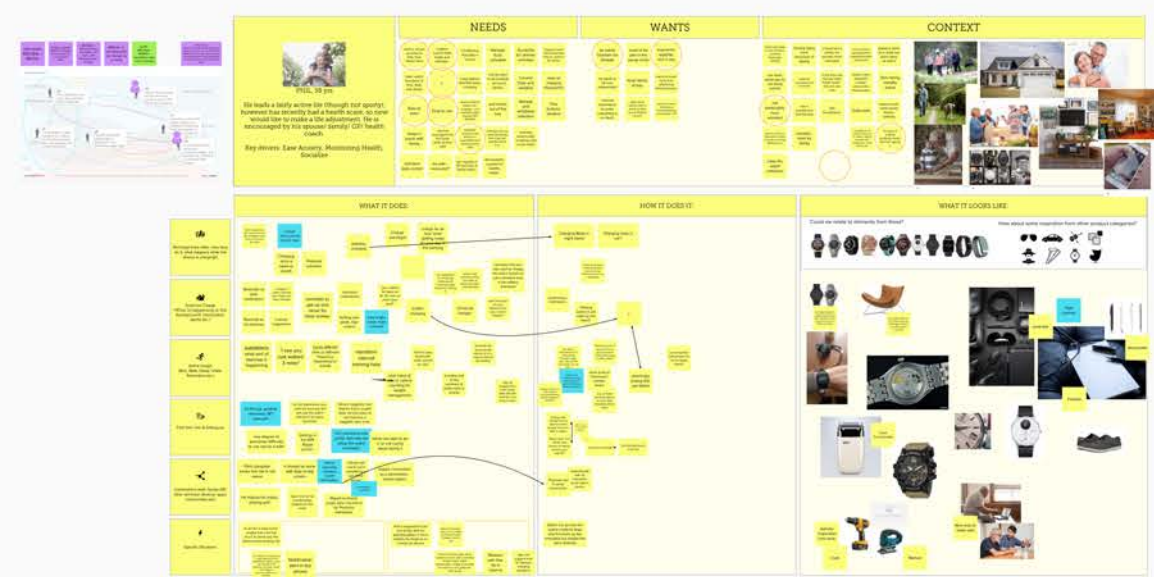
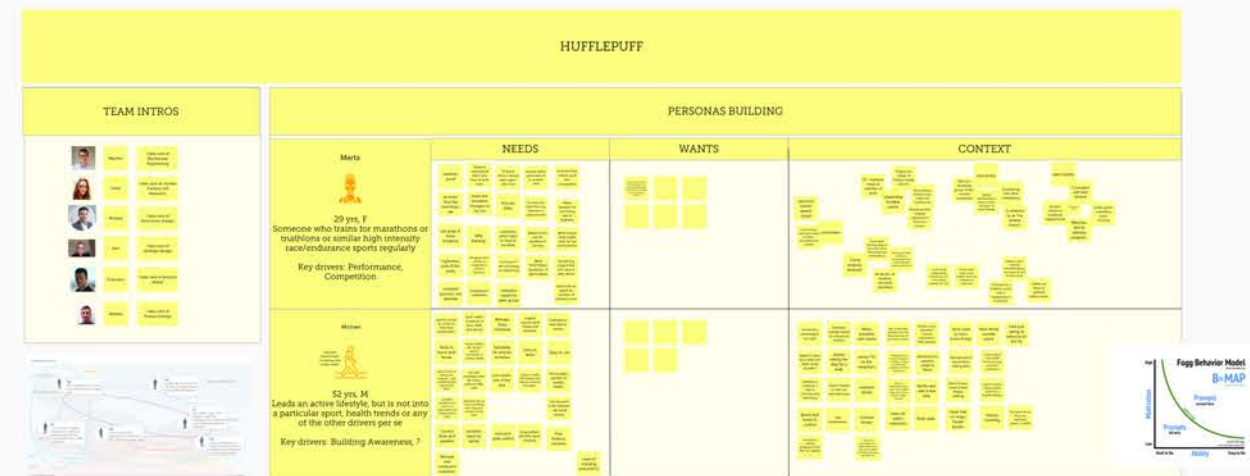
Niche market focusing on medical needs

Our Strength

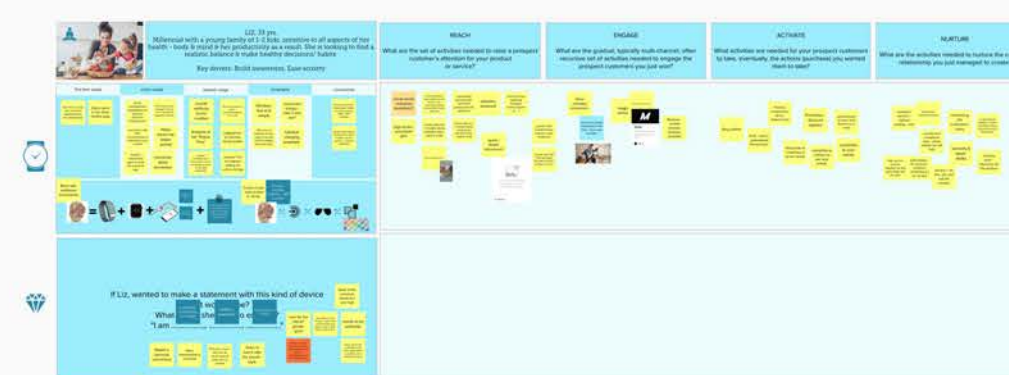
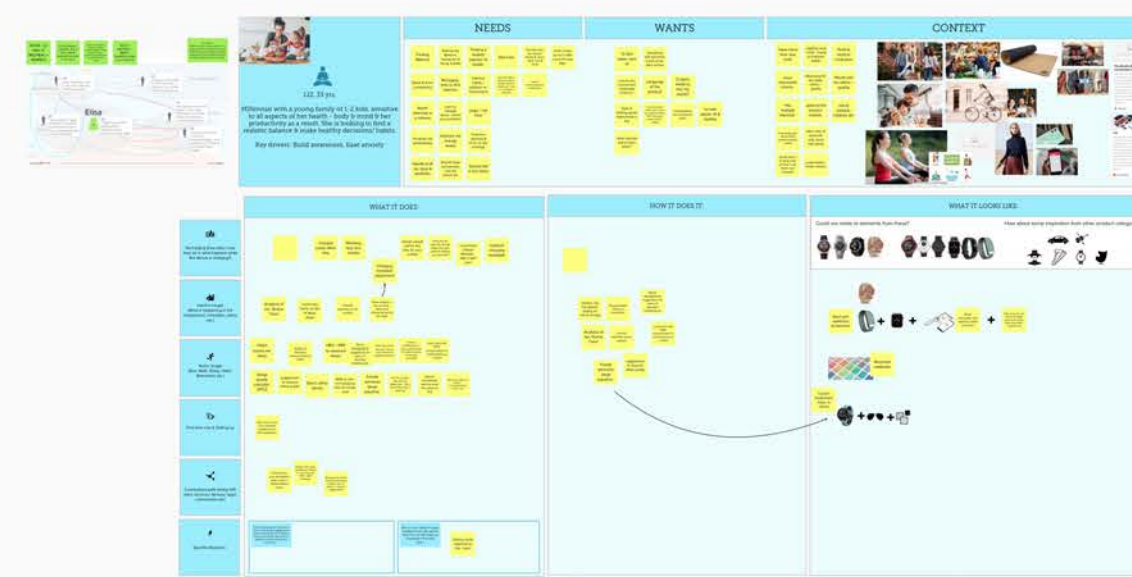
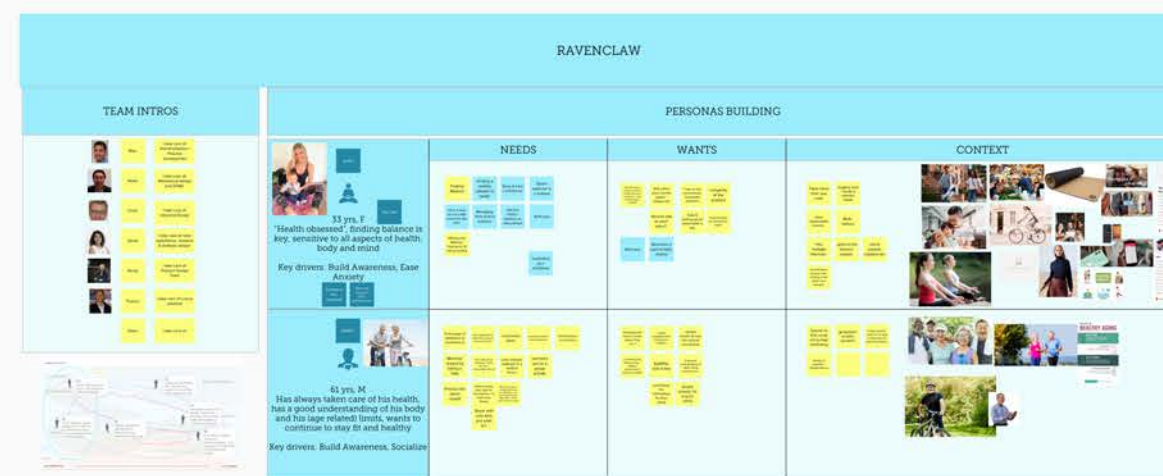
Data Accuracy (sleep tracking, SpO2, etc.)

# Personas

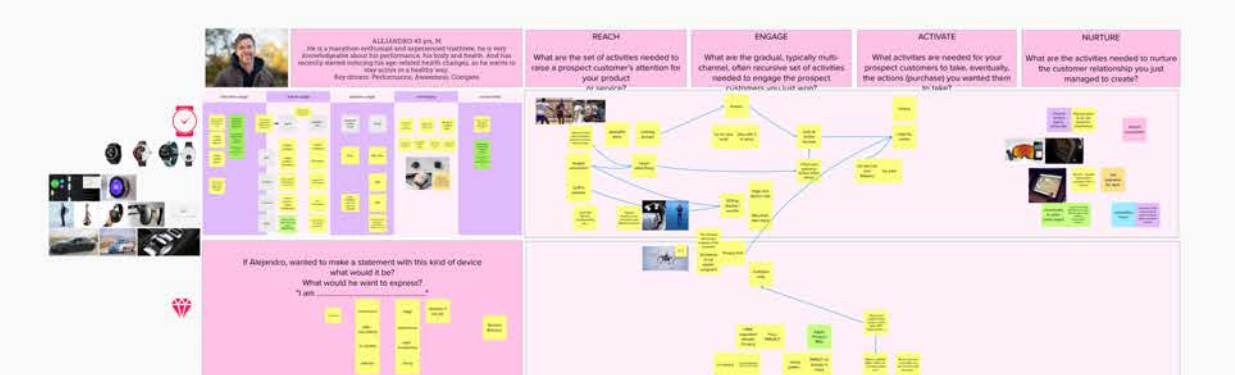
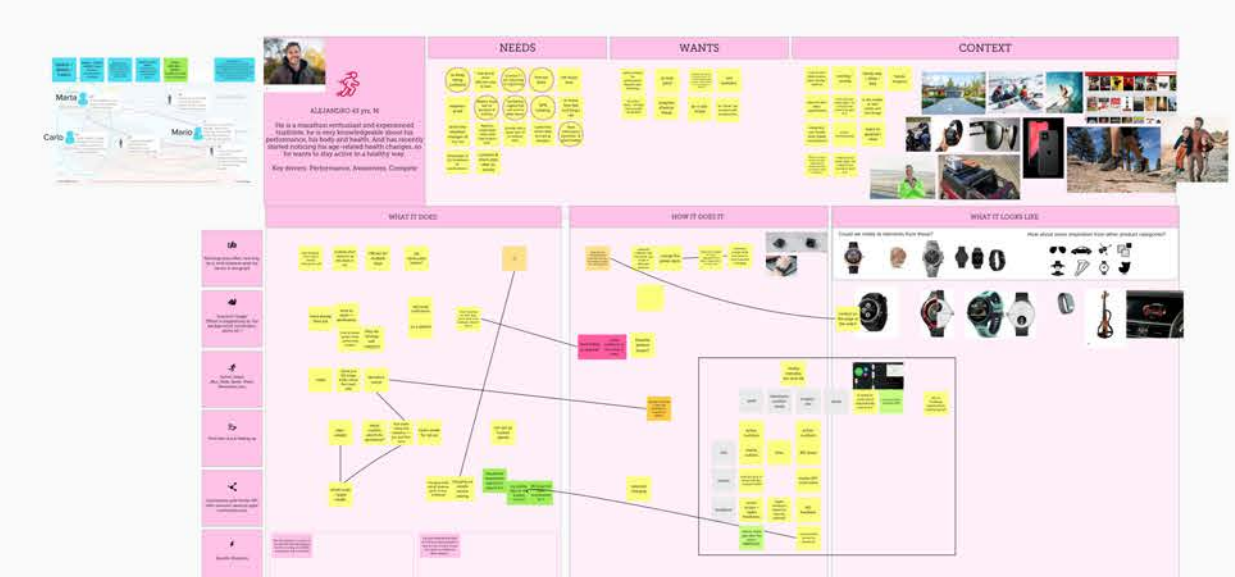
## Athletes

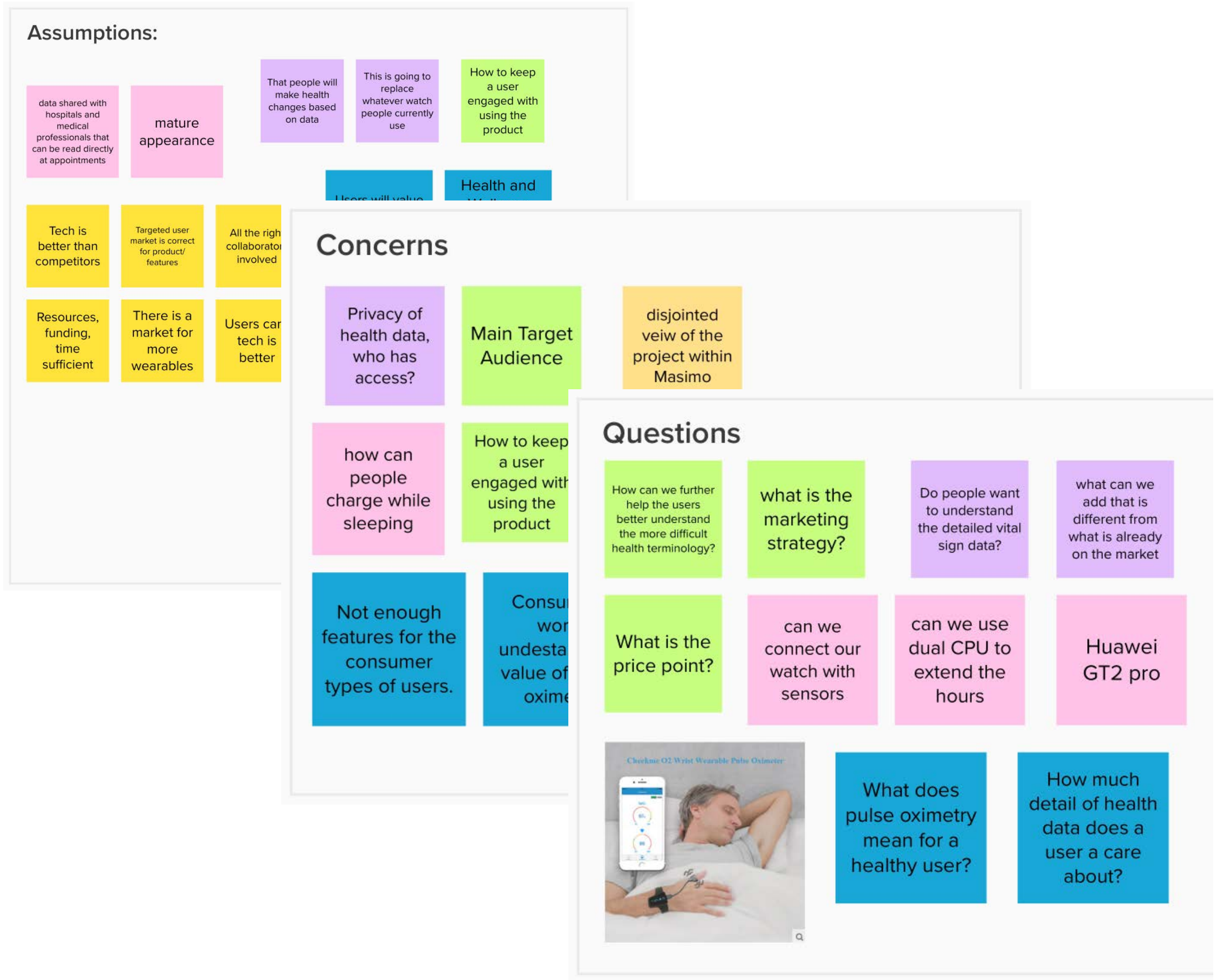


## Patients / Health Focused



## Doctors





# We Wonder...

- Do users want to understand the details of data?
- How much detail does a user care?
- How to make vital signs meaningful to them?



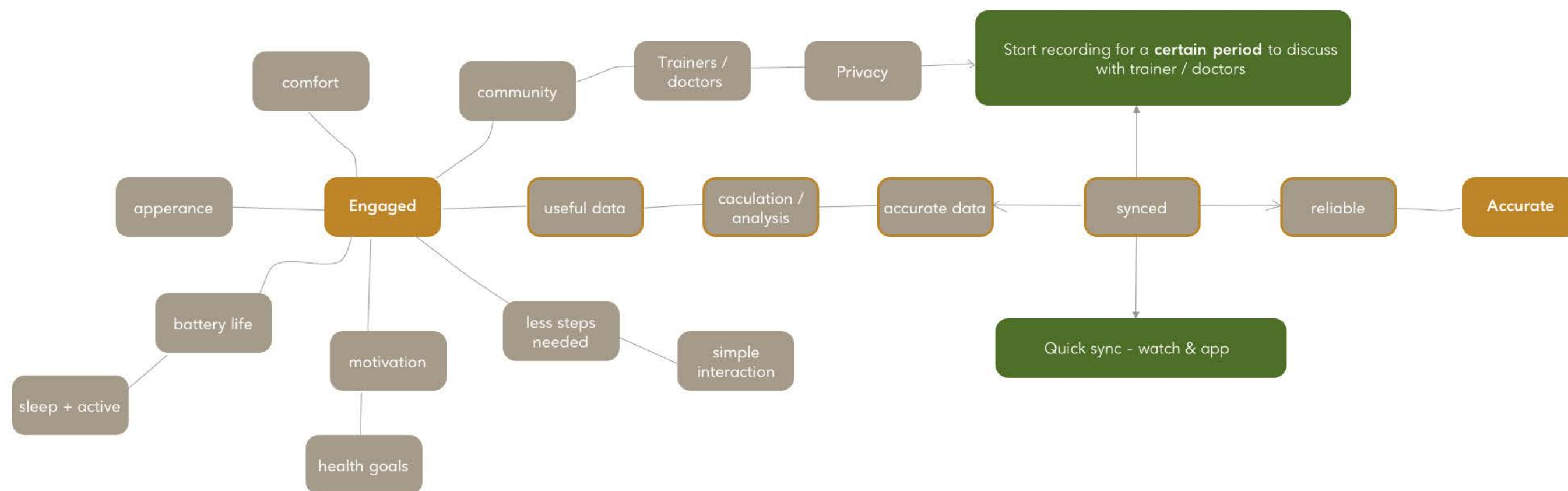


# Our Goals

- ✔ Translate Medical Devices Into B2C products
- ✔ Actions Around: Accurate Data

# My Brainstorming

Following collaborative brainstorming sessions centered on our objectives, I presented an innovative concept: enabling users to interact with medical experts, such as doctors, through the utilization of the Masimo Watch.



## Engage doctors features:

Suggest based on medical reports

Pin / record "moments" For medical needs

# Team Decision

## Milestone 1

Provide accurate data to patients

## Milestone 2

Help athletes with performance

Engage doctors

Milestone 2

Athletes

Milestone 1

Patients / Health Focused

Milestone 2

Doctors



## My Assignments

Dashboard

Live Measurement

History

Activities

Sleep

## The Other UX Designer

Watch Interface

Menu

Settings

On Boarding

Fitness

**Onboarding**



**Dashboard**



**Menu**

**Measurement**

continues  
spot check

**Sleep**

analysis  
report

**Activities**

calories  
movement  
steps

**History**

filter  
calender  
sessions

**Fitness**

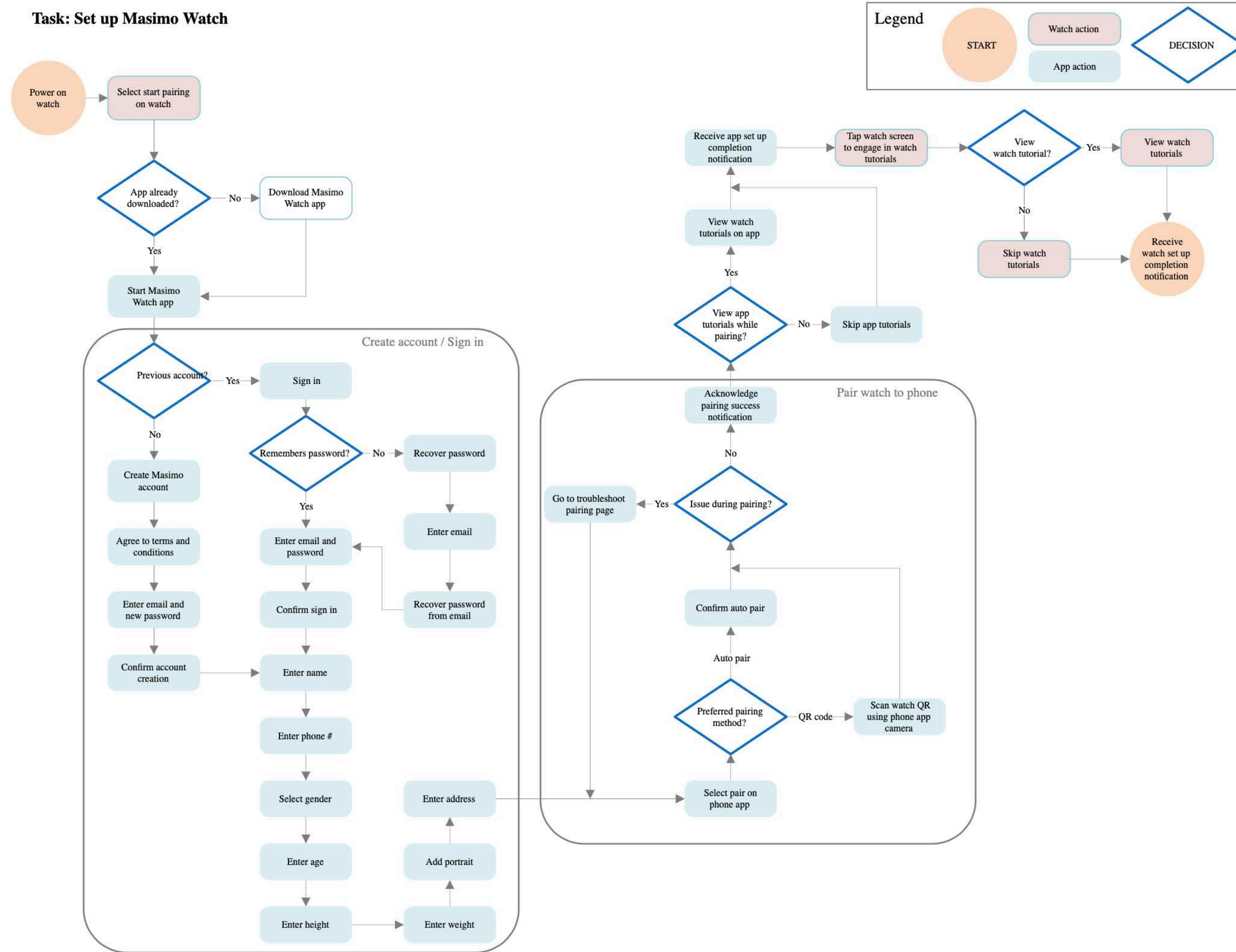
sports  
vital signs  
report

**Stop Watch**

**Settings**

# User Flow

## Task: Set up Masimo Watch



# Dashboard Ideation

During the ideation phase, I presented two alternatives for comparison alongside the one suggested by my director.

Option A (Director)



Option B (Mine)



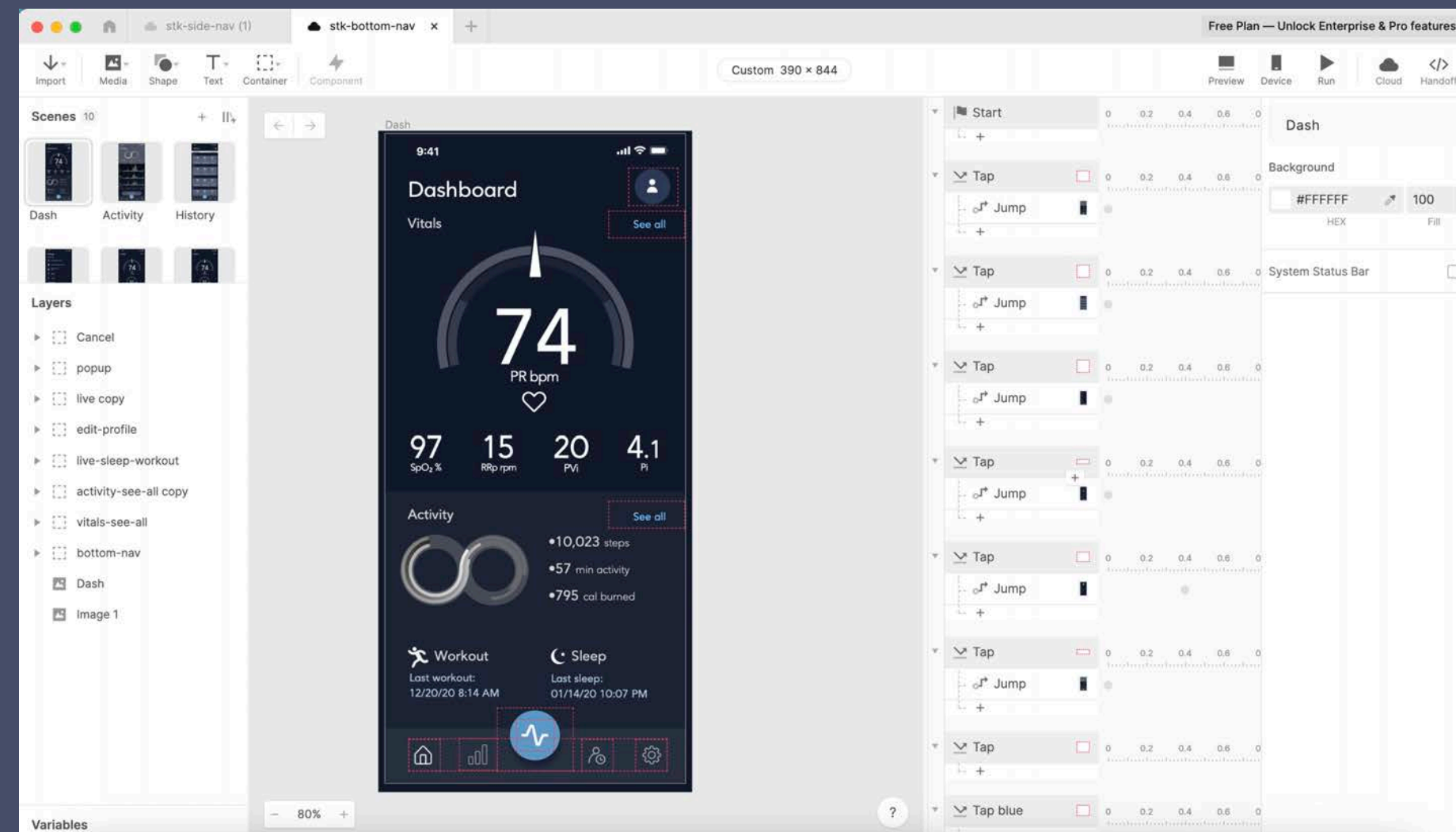
Option C (Mine)



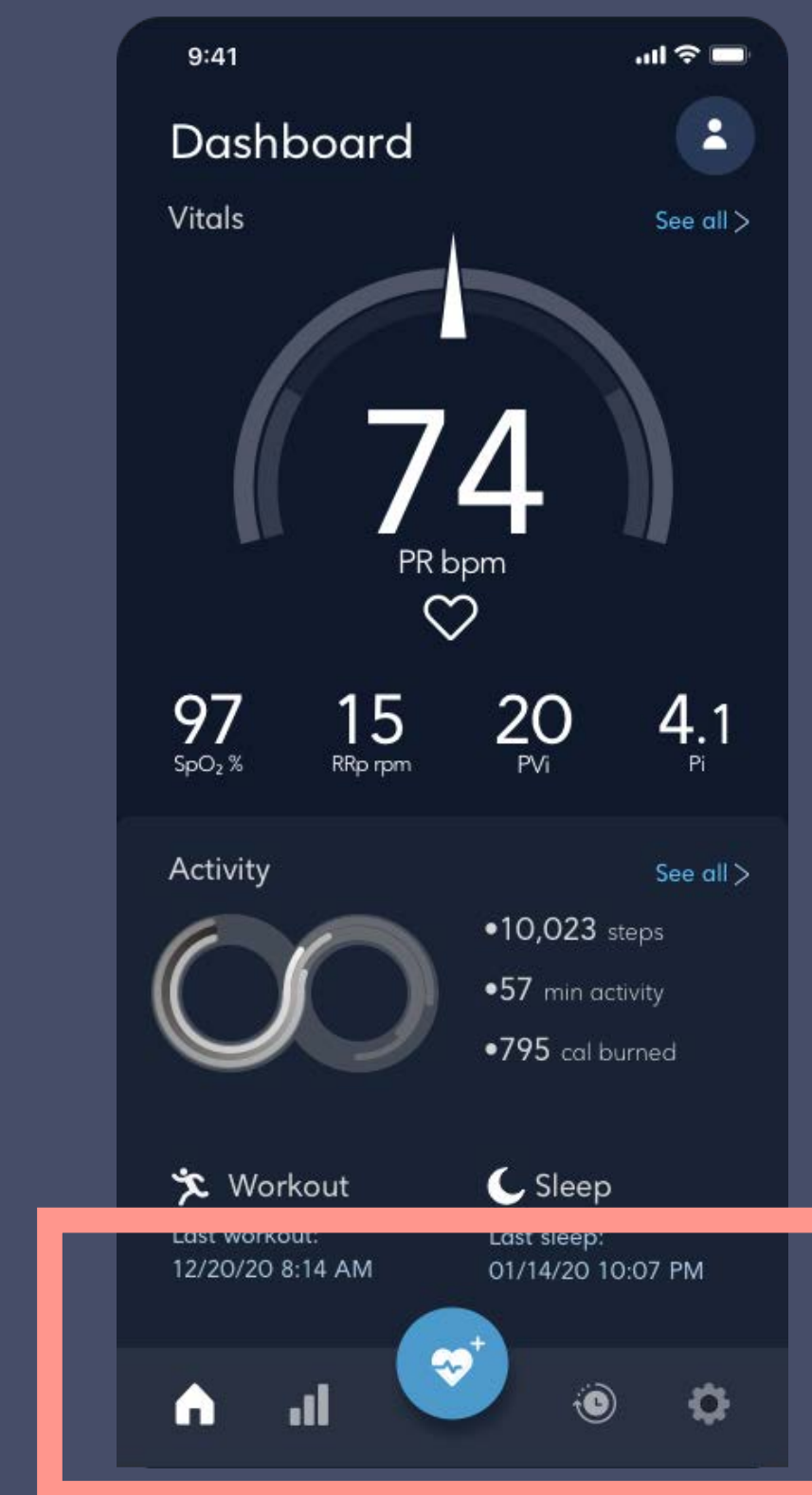


# Peer Review

The team cannot decide between the bottom navigation and the hamburger menu options. Therefore we conducted a A/B testing using Protopie as the prototyping tool.



Option A (Director)



Option B (Mine)





## Stakeholder Review

Although users showed a preference for my card design, the VP opted for my director's proposal to ensure improved branding consistency.

Option A (Director)

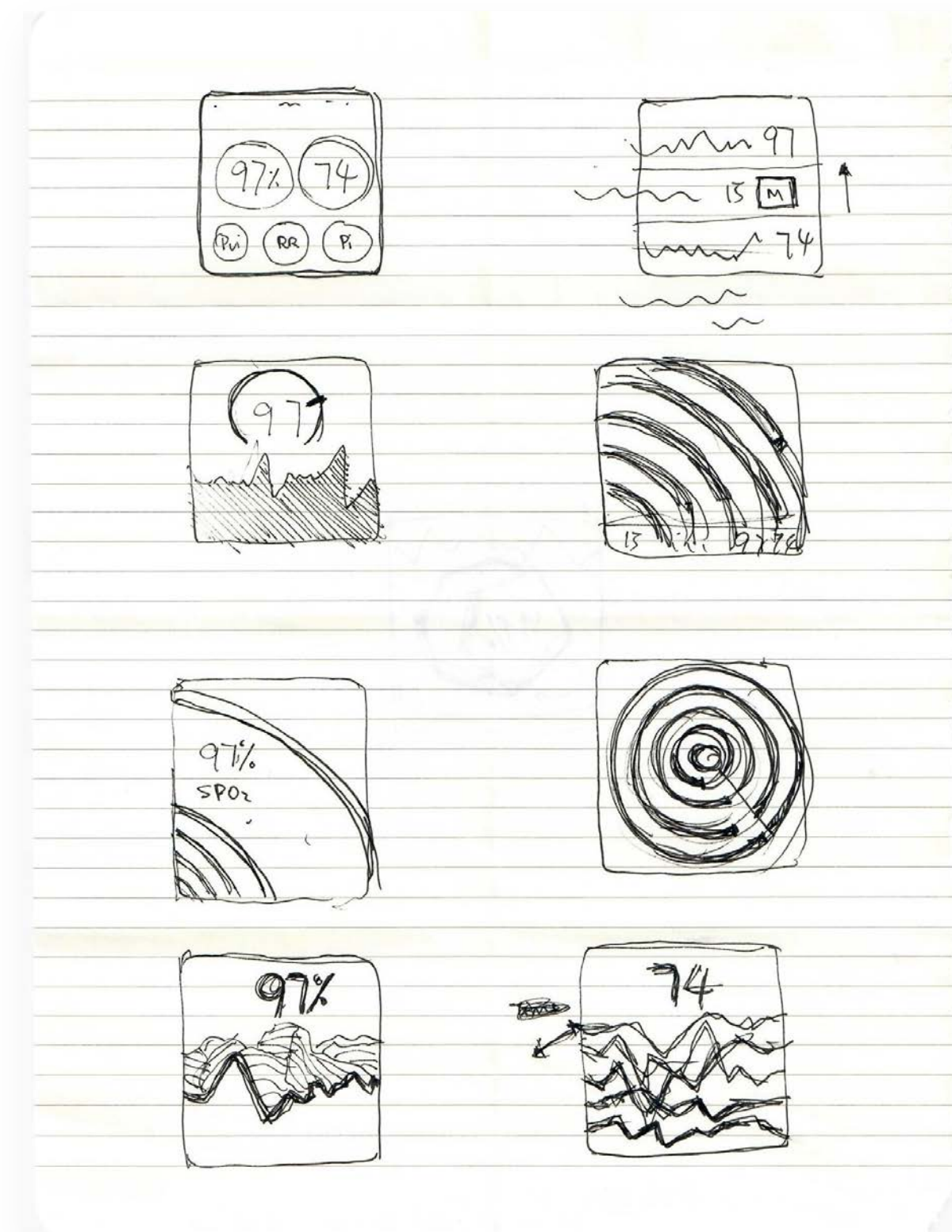
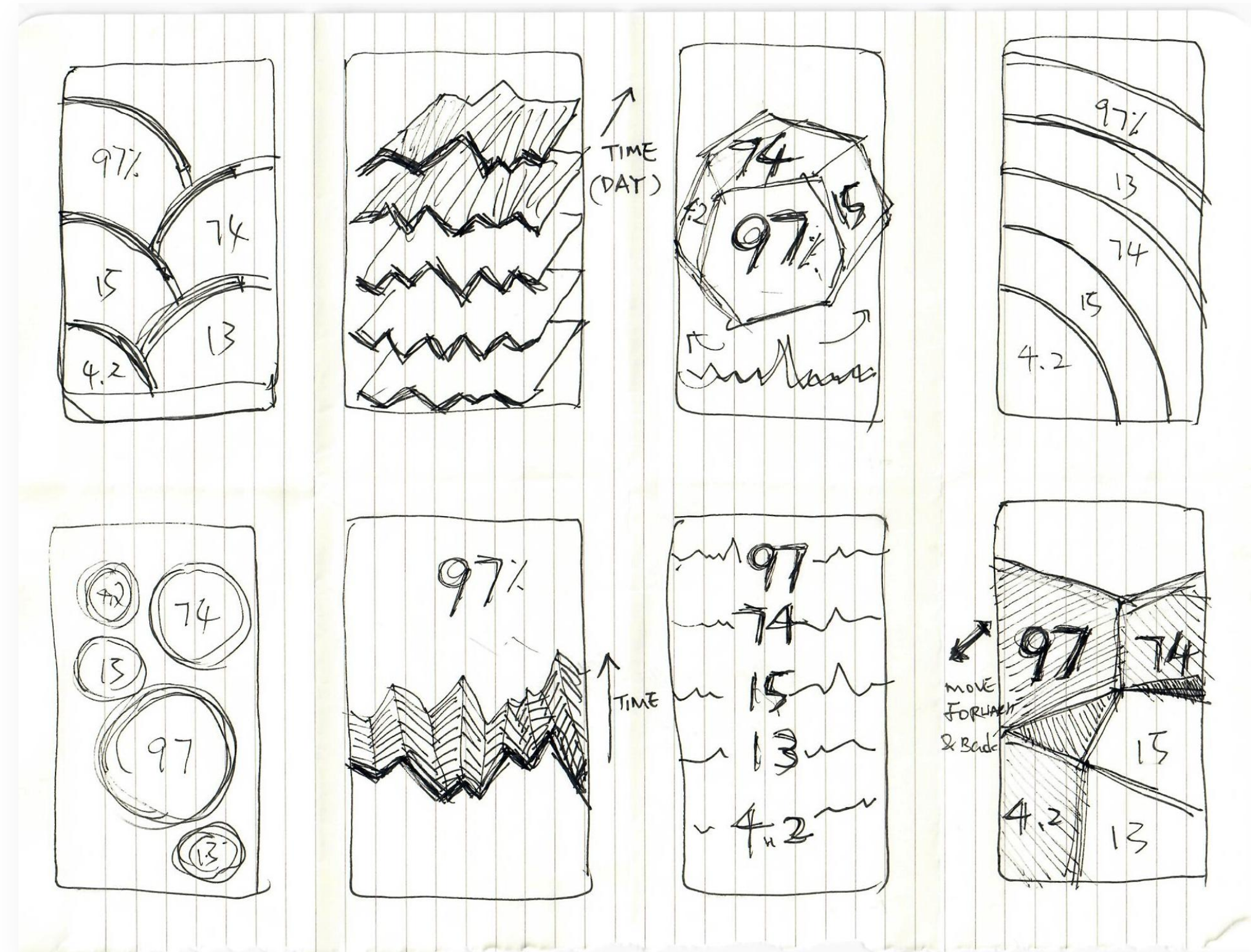


Comments From VP:

Consistent With other Masimo Devices

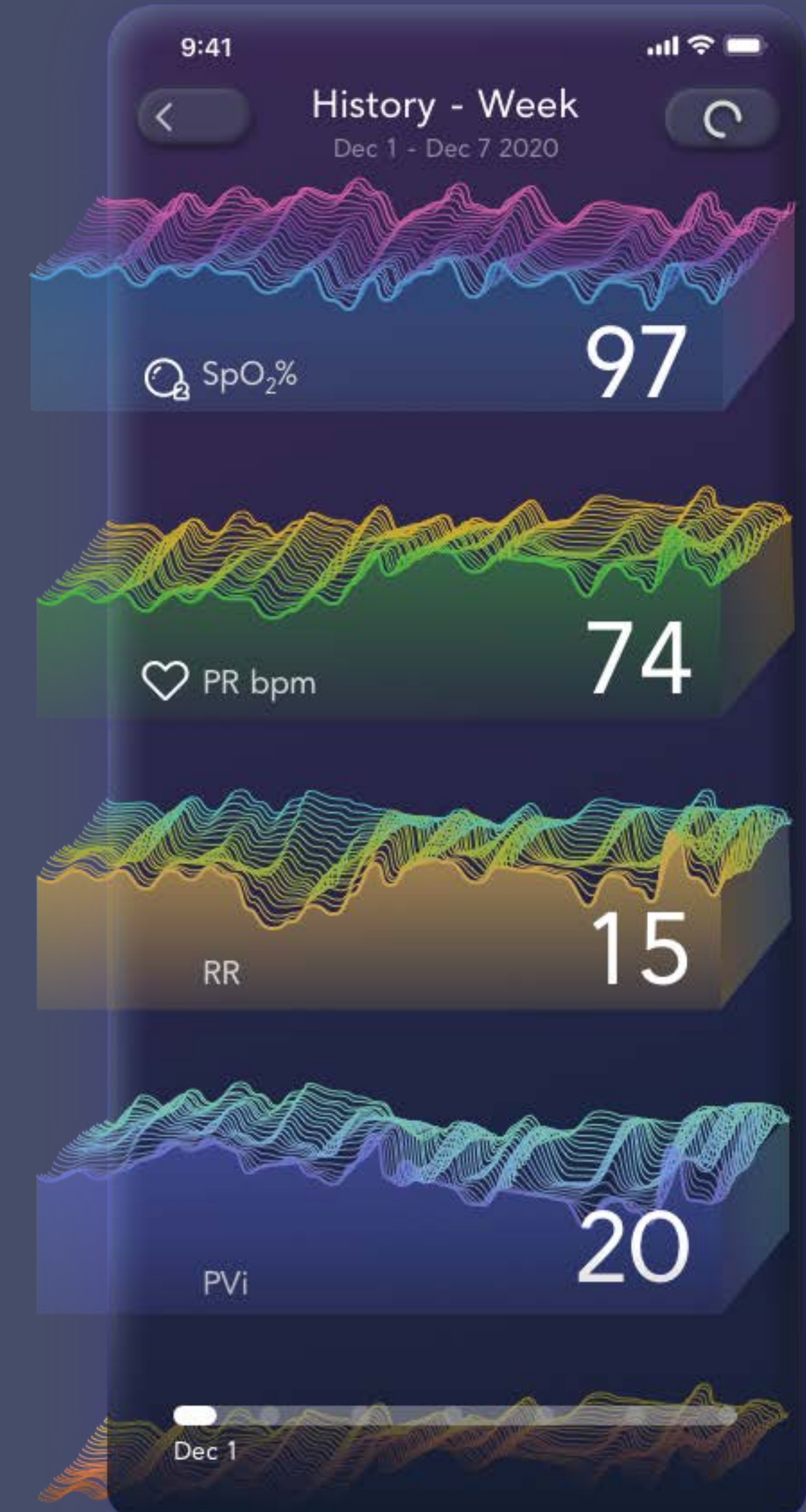
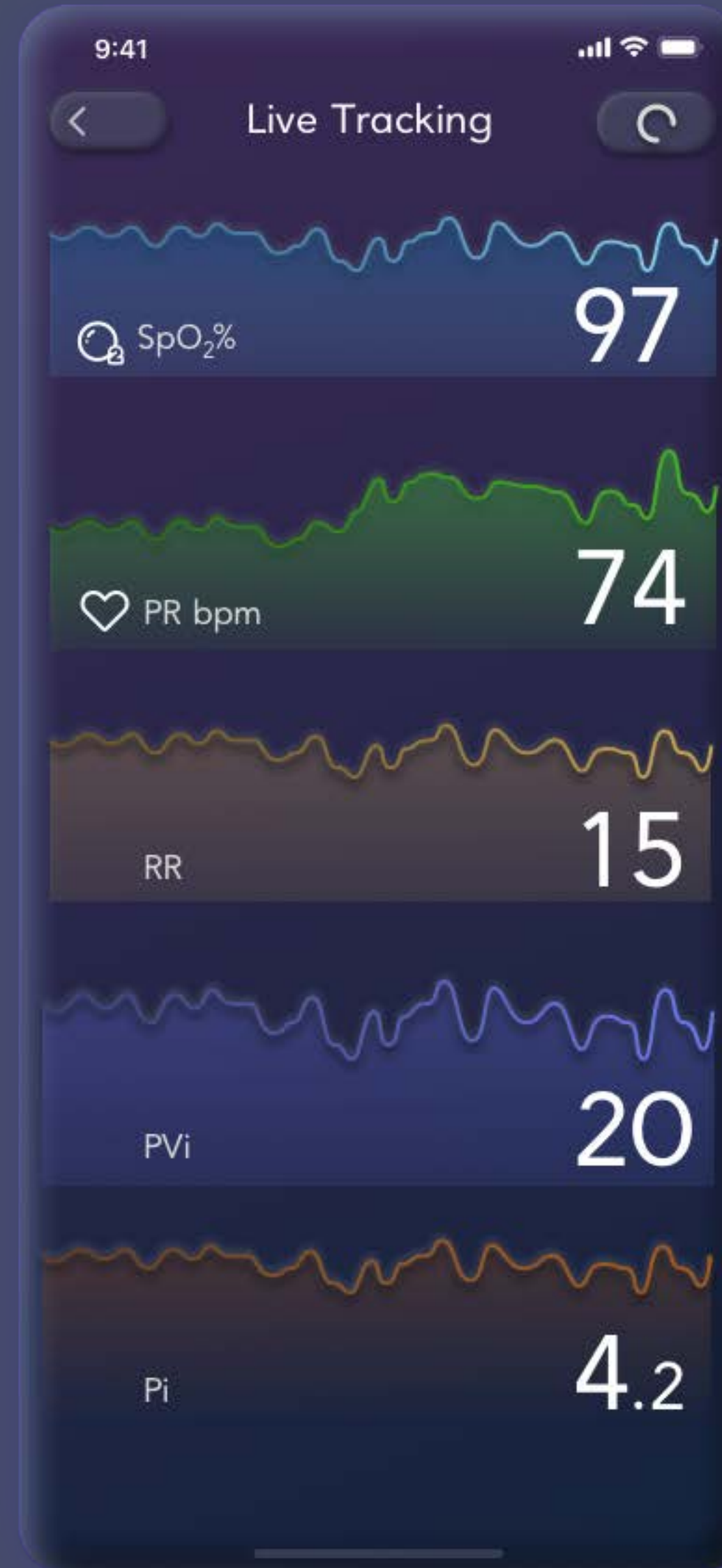
More Professional Looking

# My Concepts For Essential Screens



## Monitor Screens Ideation

Initially, I introduced an innovative concept involving a 3D waveform to visually present vital history across several days, facilitating vertical comparisons. Nonetheless, its execution was hindered by technical limitations.



## Monitor Screens Ideation

Subsequently, I advocated for a grounded approach by seamlessly translating our professional devices into user-friendly interfaces.



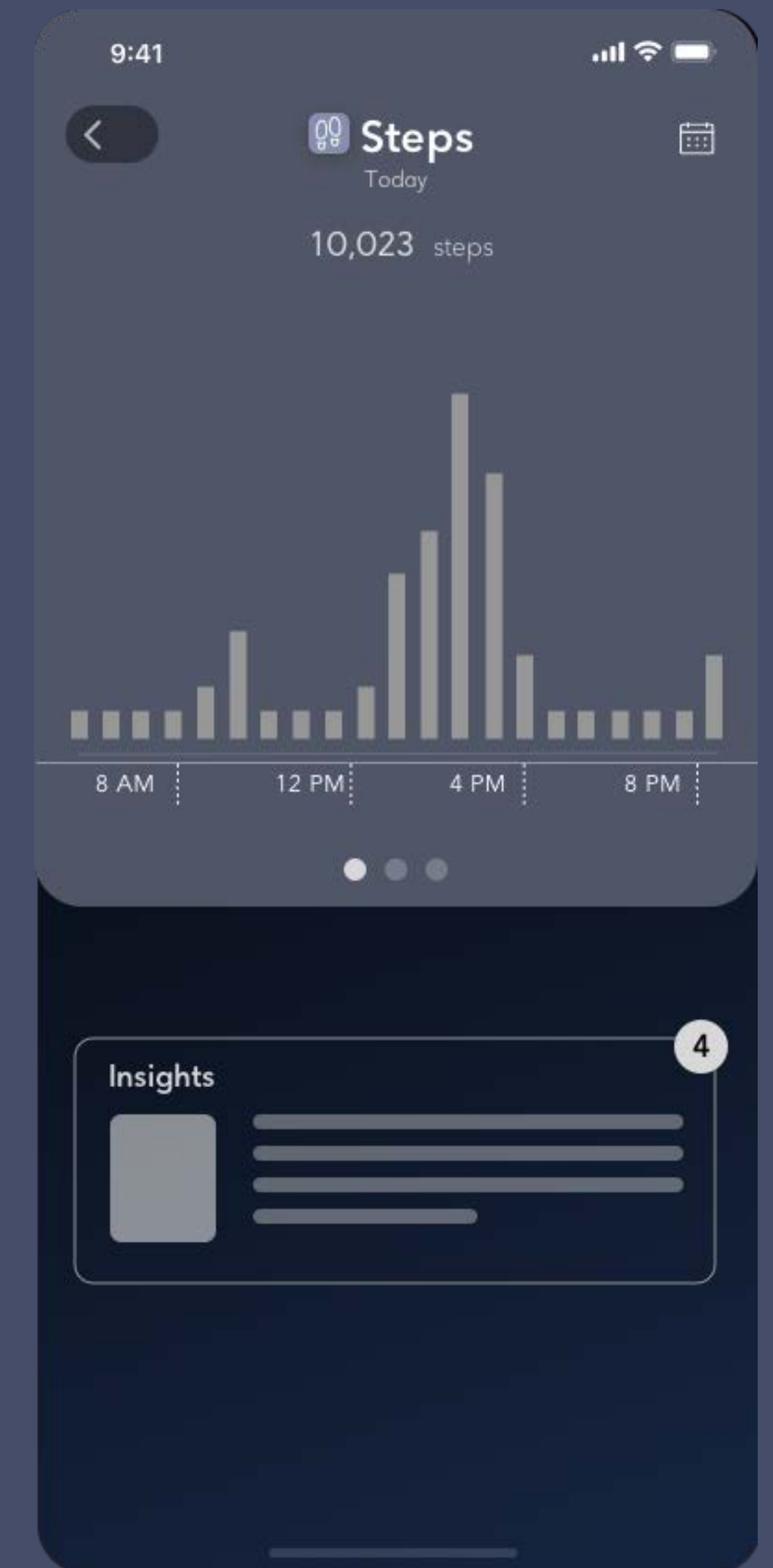
## History Screens Ideation

Within the historical screens, I advocated for the inclusion of an "Insights" feature, offering users suggestions to enhance the user-friendliness of medical data.



## Activity Screens Ideation

Within the activity screens, I introduced a loop concept within the activity screens aimed at setting us apart from competitors.

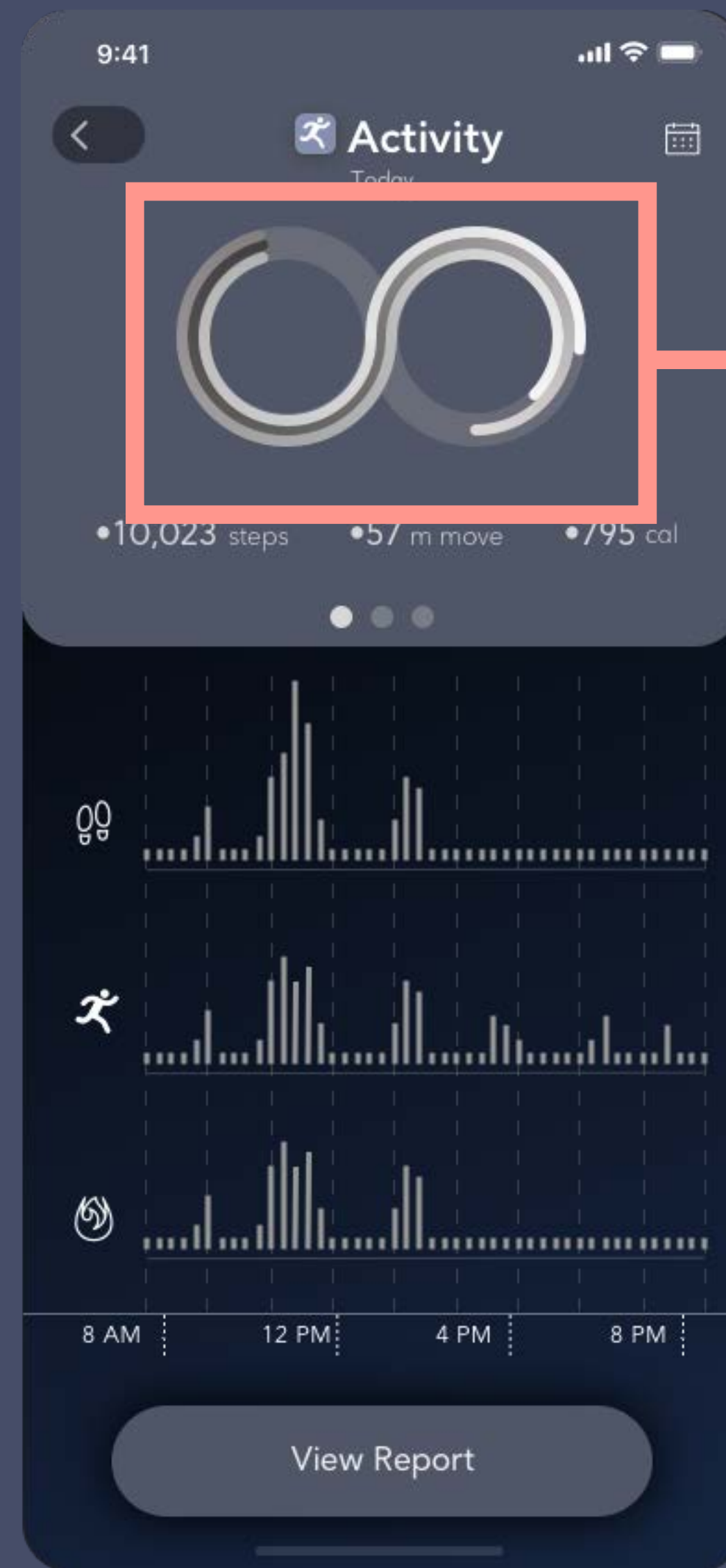




## In-House Lawyer's Feedback

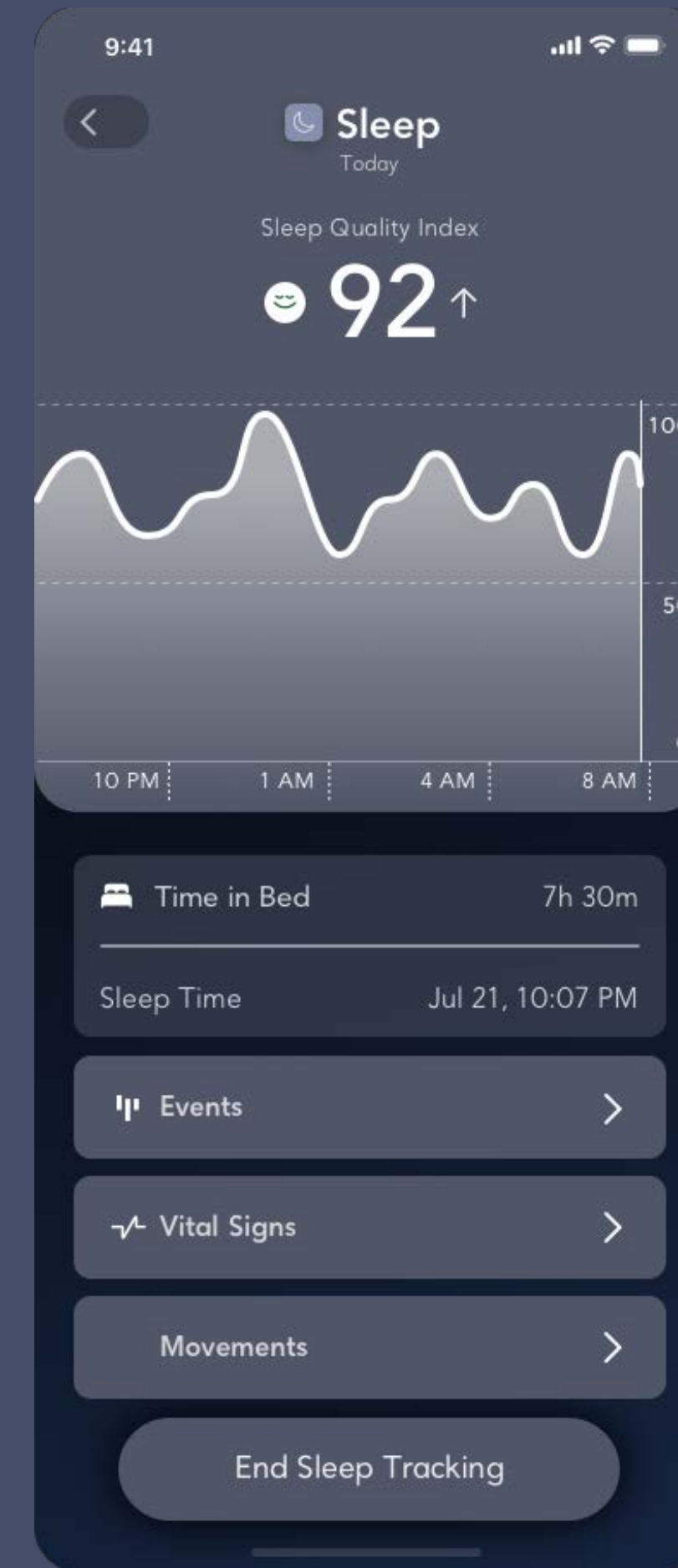
Our internal patent attorney remains apprehensive about the potential intellectual conflict arising from the introduction of rings, particularly in relation to the Apple Watch.

Utilizing my modeling skills, I successfully transformed 2D rings into a dynamic 3D loop through a strategic revision.

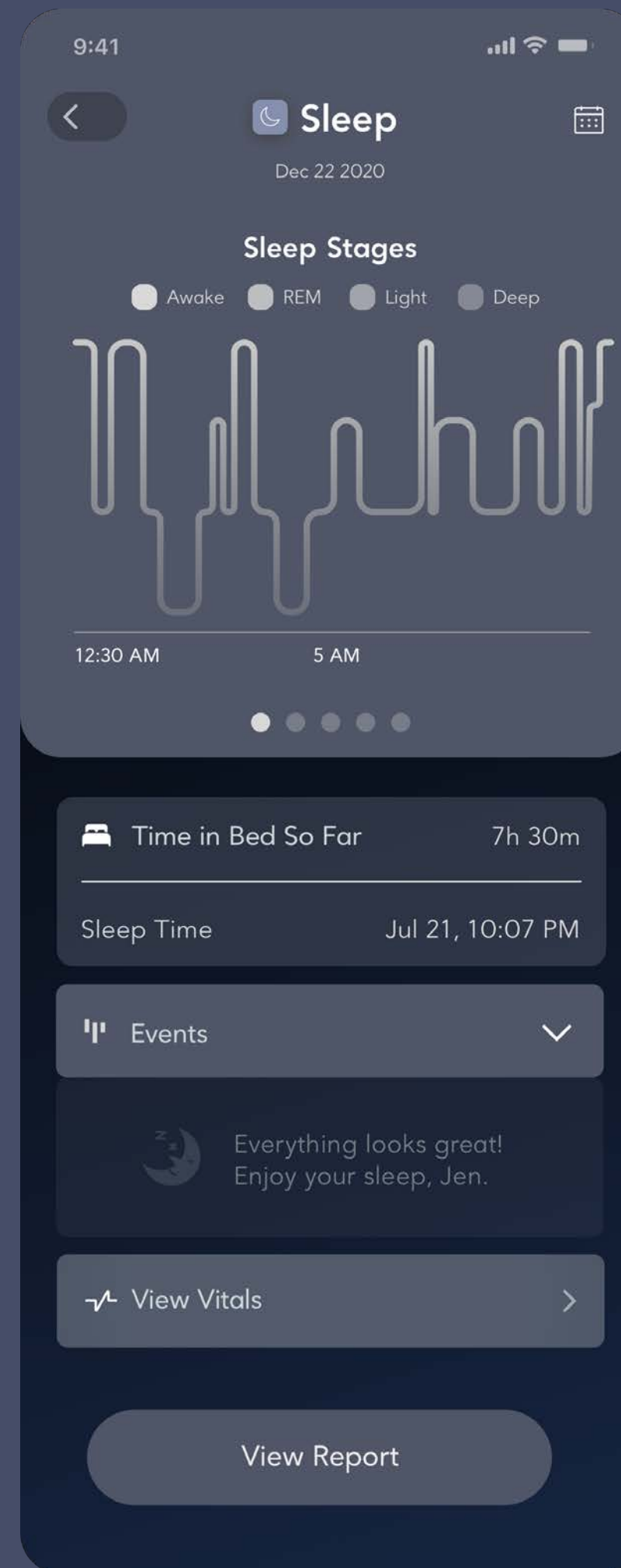


# Sleep Tracking Screens Design

I conceptualized the design for the sleep screens before my departure from the company, but I am uncertain whether these designs were incorporated into the final product.



# Sleep Report Screens Design



**Report**

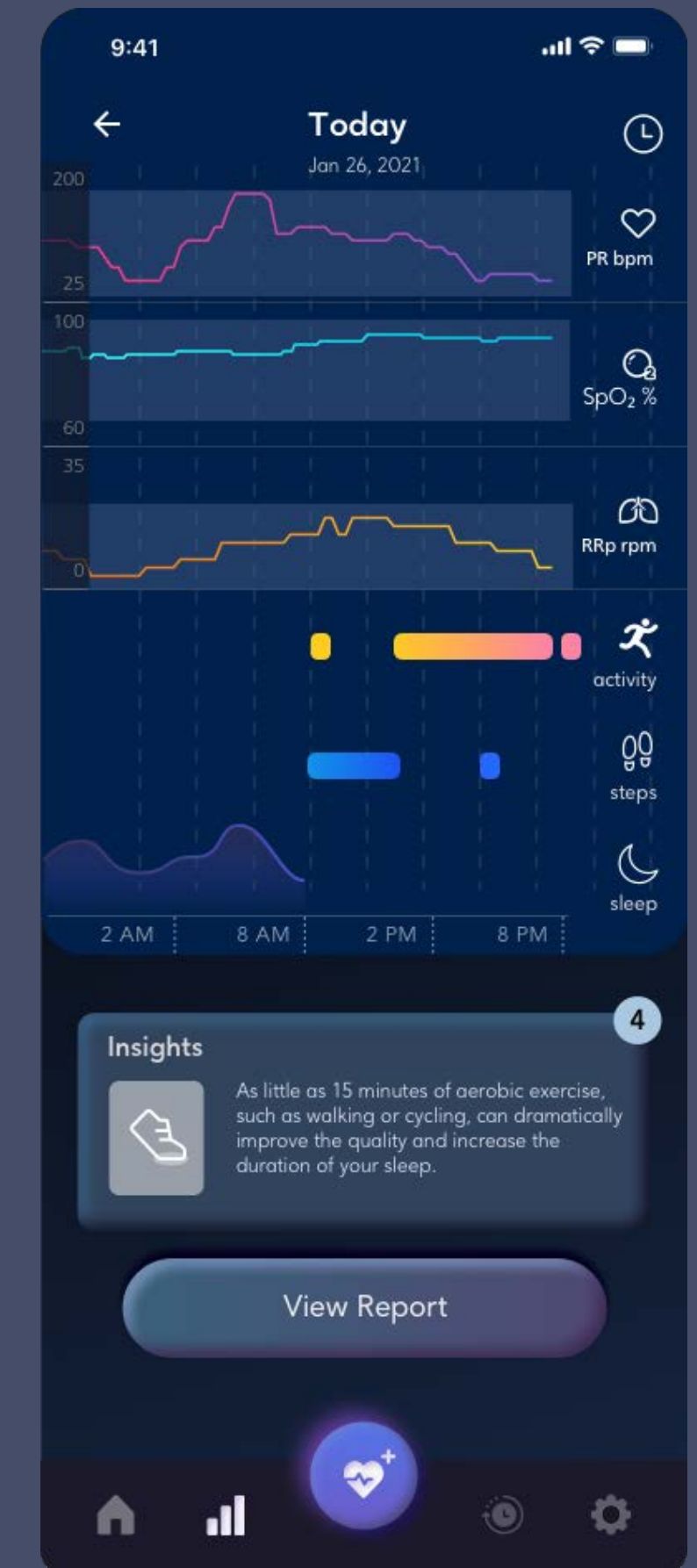
516 Events Occured

- Minor Events: 217
- Major Events: 300

	Time	SpO <sub>2</sub> (%)	Severity
1	10:33 PM	88.0	● Minor
2	10:34 PM	85.0	● Major
3	10:43 PM	96.0	● Major
4	10:45 PM	96.0	● Major
5	10:47 PM	88.0	● Minor
6	10:56 PM	85.0	● Major
7	10:59 PM	88.0	● Minor
8	04:34 AM	85.0	● Major
9	04:43 AM	88.0	● Minor
10	05:12 AM	85.0	● Major
11	05:14 AM	88.0	● Minor
12	05:34 AM	94.0	● Major
13	05:43 AM	88.0	● Minor
14	05:56 AM	85.0	● Major
15	05:57:26	88.0	● Mild
16	05:59:54	85.0	● Severe
17	06:01:26	82.0	● Severe

# High Fidelity - Key Screens

I proposed these design but I am uncertain whether these designs were incorporated into the final product.



# My Concepts For Milestone 2

## My Assumptions:

Patients have specific **moments** that they want to discuss with medical professionals.

Health focused users want to follow **punctual** schedules for exercising time, sleep time, medication intake, etc.

# My Concepts:

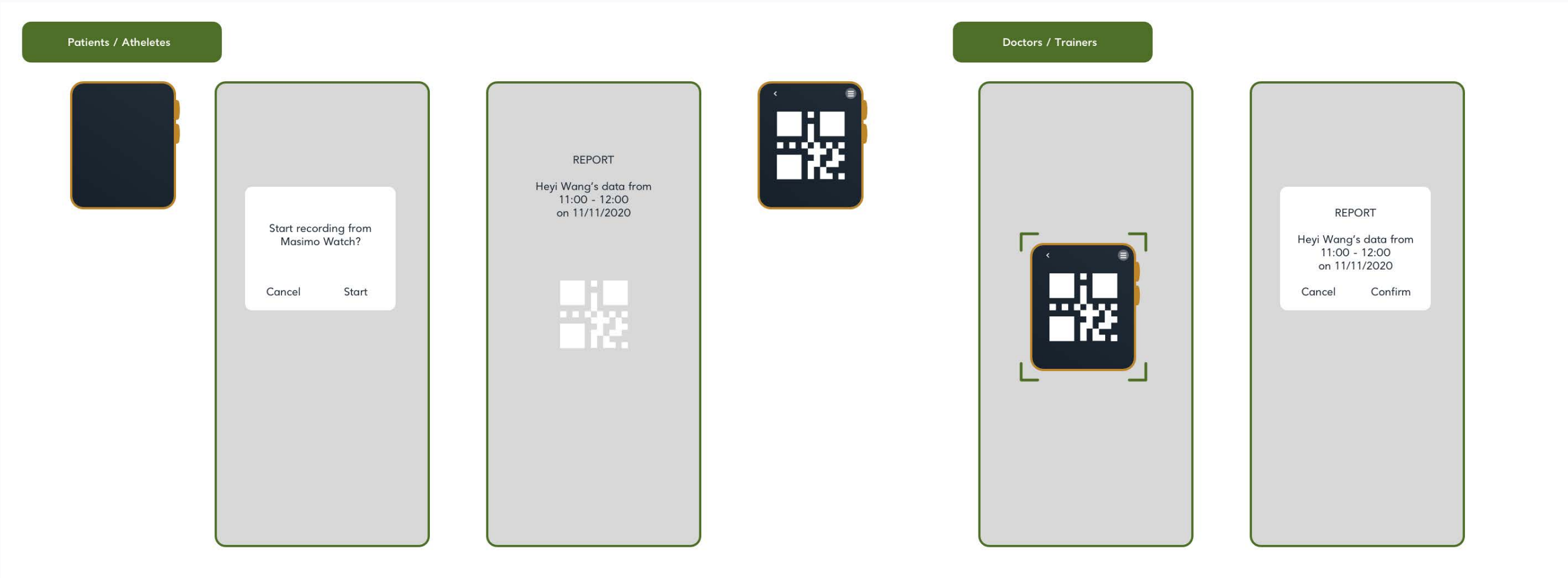
If validated by users

Generate “Cloud Reports” For Medical Needs

Remind *schedules* on watch faces

# My "Cloud Report" Concept

I've devised a concept that involves generating a QR code within the watch, enabling effortless scanning and seamless import of patient data into our Masimo embedded monitors. This innovation aims to optimize time for both medical professionals and patients.





# My "Punctual" Concept

I conceptualized an innovative idea that merges a traditional clock with a digital schedule, offering users reminders for medication intake, exercise routines, calendar synchronization, and more.



# What I Would Do Differently

Conduct in-person user interviews and observations.

When do users **look at** watch during work out?

Do they have hard time using watch **while moving**?

Make the interface more consumer-facing friendly.

Translate professional medical language into interfaces that consumers are familiar with.

