# Masimo Watch W1

Healthcare

Mobile

Watch



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# 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 standout from the strong competitors

# How can we stand out?

	Motive for owning	Setup & Pairing	Wakeup 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
P1  • Apple Watch 6 • Female	Durability Past negative experience with Fitibits falling apart Measurement capability O2, heart rate, ECG Used Apple points Integration with other devices Watch design	Setup notifications Limit notifications Pairing issue ambiguous (wouldn't connect)  Setup 100	Haptic alarm wakes her up     Welcome message greets her     Sees time, weather, and remaining battery     Upcoming appointments     Wears all day, other than shower     Looks at watch more than phone now	Goals: - 45 min exercise daily Pilates - Wishes more distinction between different types Tracks activity, sets, exercise minutes, distance, flights of stairs Heart Rate - use to increase/decrease workout intensity Walking - GPS tracking, watch shows pace as red, yellow,	Standing activity Heart arrhythmia Steps O2, periodic auto collect doesn't look at it frequently or use, "fun to see it" Activity info for workout Uses 'ings feature for tracking By Monitoring Likes to fill the "rings" (calories, exercise, stand)	Wears when sleeping Isleep app Had issues with headaches, initially used sleep app for this Cohesive with alarms and sleep schedule sends bedtime reminders	Doctor     - shared in person, screen, general activity levels, O2, minutes of exercise a day     Friend     Ring data, activity notifications	Average once a day     During moming or shower     When static, at desk     Lasts a day and a quarter	Timer - cooking, self care routines News Work & phone notifications Maps Apple Pay Digital assistant Siri Separate Cellular/wifi	Zombies, Run! App     Likes the motivation it gives	Apple health app to share health with doctor	Not concerned with data privacy more than usual - not sure what people would do with health record Uses airplane mode	Expects accuracy, but not perfection (80% correct)
• 27 • 2 months				green and she picks up.									
P2	Upgrade previous device On sale Wanted GPS feature for runs Good reivews Fan of brand, customer service Durability of devices	No connection issues Measurement info requested during setup, could skip but no issue entering	Wakes up with separate phone based alarm     Wears watch all day     Completely satisfied, if broke would get another	Goals: - Pre Covid: 5/10k marathon - Current: to stay in shape Running - meet a certain distance a week - GPS location, mapping path, distance, uploading to Strava, "why I have the watch" - Cycling	Daily steps     Heart rate     GPS not good when cloudy, or certain times doesn't work     Stationary notification     gets up if alerted     During run, looks at pace to modify his speed to meet goal     Elevation	Initially wore watch during sleep for sleep tracking Doesn't use sleep tracking now "maybe I don't understand it", doesn't know what to do with info If I take off watch its for sleep	Strava activity, run distance - can receive "kudos" from others - run areas can become competitive, with leaderboards - Choose to share to followers, passively shares through app when collected - run time/distance, path	Average once a day During shower Moming or before bed From 20-80% in 15 minutes Charging battery "a little annoying" "GP5 drains battery, other watch charged once a week" wont use GPS if battery low	Phone notifications reads, doesn't respond on watch but likes he can wants to manually input response, feels stock ones limited Stop watch/ timer - activities requiring a certain time limit to do - time management, clean Customizable watch face,	Strava - motivates to be active - Follows athletes, friends - Seeing their activity - On phone Swift - indoor cycling - motivates like game, has avatar - \$10 a month Apps are like "social media"	Garmin Connect - infrequent use - For setup, add watch face- to track run stats, distance per heart rate average - uses strava/swift more Expects to see: - summary of current day activity, or previous day - proximity to daily goals Overall uses strava, data he	Important for banking info, passwords     Ok sharing activity locations, not too personal     Doesn't mind that being shared     Ok with info collected if it improves watch	Doesn't have to be exact especially with heart rate Expects close, hopefully fairly accurate Doesn't need exact measurements "I'm not a professional athlete" Likes reliability, no glitche
<ul><li>Garmin Vivoactive</li><li>Male</li><li>30</li><li>9 months</li></ul>				Strength train     bodyweight, kettleball     Water resistance important, sweating				One day full use is acceptable, 2 days would be ideal Standardize charge port	bands  No speaker = not important  Song switching mid run  Design of watch important  Durability important	sites  Nike training app, Routine/workout info not connected to watch	wants to see is in this app - uses Strava over Garmin for social media		
P2	Missed previously returned Apple Watch 3 - returned due to cost - felt she was wearing "another phone" Wanted O2 awareness (thinks had covid in March) Owned a Misfit device, lost it	Unboxing was great, packaging pleasing     Starting up and syncing product was easy     Feels it was a streamlined process     Wishes she managed what apps carried into it better during setup     currently overwhelmed by apps	Haptic alarm wakes her up, but stays in bed until phone alarm     doesn't mind it     Usually wears all day, during night     Feels like shes "in the apple club"	Elliptical     Core, free weight training     Yoga, pilates     Circuit training     Walking     Plans water activity,	HR     Looks during eliptical and burpees, lower activity if too high     Not sure what rings are about     Calories     O2     doesn't check a lot, but would go to hospital if alerted     Wants better diet tracking	Doesn't do this     Tried, but doesn't use the data	Lose it! and Pelaton apps will passively share data     Doesn't look at shared data     Notsure what to share or why	Once a day During showers Only takes 15-20 minutes to charge Satisfied with chargin	So many apps, confusing, limits use of watch Breathing exercise reminder is annoying Standup notification annoying, watch can't tell she was active earlier Favorite: seeing the time Likes controlling next song playing on external speaker Connection to other apple devices	- enter foods into a point system - Says apple doesn't have this, but thinks they could "blow others out of the water" if they tried • Pelaton for exercise routines eaker - Lose It App, meal tracking	Apple watch app     Expects to see HR, O2, steps, history     Looks at calorie circle, but uses other apps more     wishes it had fitness program, workout vids, like weight watchers     wishes app tracked foods     Follows trainers on instagram, live workouts     Would be cool if Apple fitness had something to make accessing workouts easier	Worries about data security, but doesn't do much to secure it herself     Banking info is most important to secure     More concerned about phone security than watch     Not concerned with fitness or health info	Expects accuracy, on previous Misfit it would incorrectly input
<ul><li>Apple Watch 6</li><li>Female</li><li>46</li><li>4 months</li></ul>					in watch, but she may be unaware of ability to do so				Social media, weather, notifications     Watch design	•			
P2	Used device from ebay Price important, doesn't want to pay more than \$100 Mother had two Fitbit Versas Owned series 1 apple watch but wasn't fitness focused - all she cares about is steps Watched videos on youtube	Easy setup     Had a previous fitbit     account where tracking was     from phone     Just chose to add watch     from app     Both apple watch and fitbit     pairing processes were     "simple and to the point"	Wears for walking but not to sleep     Only wears during day	Main watch purpose is the tracking step count -3-4 times a week -3-4 miles a hike - Not sure how far shes going without this tracking Did crossfit but no use of fitbit Watch not water resistant  •	HR     - stopped looking at it because she didn't know what to do with it being high	Doesn't track sleep anymore     Doesn't wear to sleep     Used it to track deepness of sleep when having headaches     haven't since pandemic     didn't know what to do with info	Liked fooducate's community of people sharing what they are eating     Favorite thing: fitbit phone app shareable challenges - old coworkers or friends would challenge each other to meet similar fitness goal	Once every 4 days Charges at night	Tracked period, doesn't have it loaded currently For camping Didn't like apple watch telling her to speed up, she only cares about steps Wants watch to look like a watch Text message notifications Wishes she could log food into watch	Uses fooducate, but it asks for a lot of detail Desn't like Fitbit's manual food/calorie tracking Wants to be specific with what shes eating, but not all the detailed info (just calories) Didn't like how My Fitness Pal app would open separate safari window	Fitbit app is simple, one all inclusive app Didn't like the multiple apps required by apple Looks at it whenever she wants to see steps Likes that the fitbit just "does its thing", doesn't interfere  •	After a previous data breach, she is less concemed when you opt into something you have to be willing to accept the repercussions? She accepts risk, since data doesn't seem that important	Really important for competitions, don't want miss steps for that Has been concerned with the accuracy degrading over time Not sure if would pay for more accurate, would nee evidence of how much more accurate
<ul><li>Fitbit Blaze</li><li>Female</li><li>23</li><li>2 years</li></ul>									Would be nice to have more watch face options, currently just black and white screen				
P2	Had Mi Band 3 step tracker, given to son     Likes look of watch, 46mm bezel     Likes usability and flexibility of Samsung     "if I want to brick my watch let me do it"	No feedback	Wakes up with phone or watch Watch buzzes at 4, snoozes until 5 Checks heart rate over course of night Sleep efficiency	Bike rides with son Walking and tracking steps Goal: Lose weight wants to hit watch activity goal every day meet 85% of set step goal daily Uses for swimming and shower  -	Stairs, steps goals     Activity goal amounts     Stress tracking     -stress ful year, likes being told to breathe	Likes seeing if he had deep sleep     Most interested in seeing heart rate through night     Looks at data every morning	Verbal exchange of workout or activity challenges with sister (personal trainer)	At work during meetings Multiple chargers, kitchen, bedroom, office, car 2 days of use before 15% notification Charges every day to be safe 2-2.5 hours to full charge Doesn't interfere with goals since data syncs from phone Might miss a few hundred	Likes calendar notifications     Takes calls on watch     Most used feature is voice to text     Music control to external speaker while in shower     Find my phone feature     Doesn't und erstand bixby, doesn't like it, interferes - wishes it had alexa integration though     Wishes it had caloric, food,	Facebook Messenger is only external app, for message notifications     Wants to add family link app for tracking his son	Interacts with app when watch or app needs to update When he needs to add a different song Samsung health more used than watch app - uses for changing health goals (activity, step) Expects to see where hes at in relation to daily fitness goal	90% important Has nothing to hide "If people want your info theyl get it" No data on watch hes concerned with people getting	Great, but 80% important If its not exactly right its n a big problem Gives you an understandir of what you are doing
<ul><li>Samsung Galaxy W</li><li>Male</li><li>36</li><li>2 years</li></ul>								steps	water tracking - admits it might have it, but hes not aware		<ul> <li>would like for it to tell him if hes not doing something he should to meet a goal</li> </ul>		

#### We Need

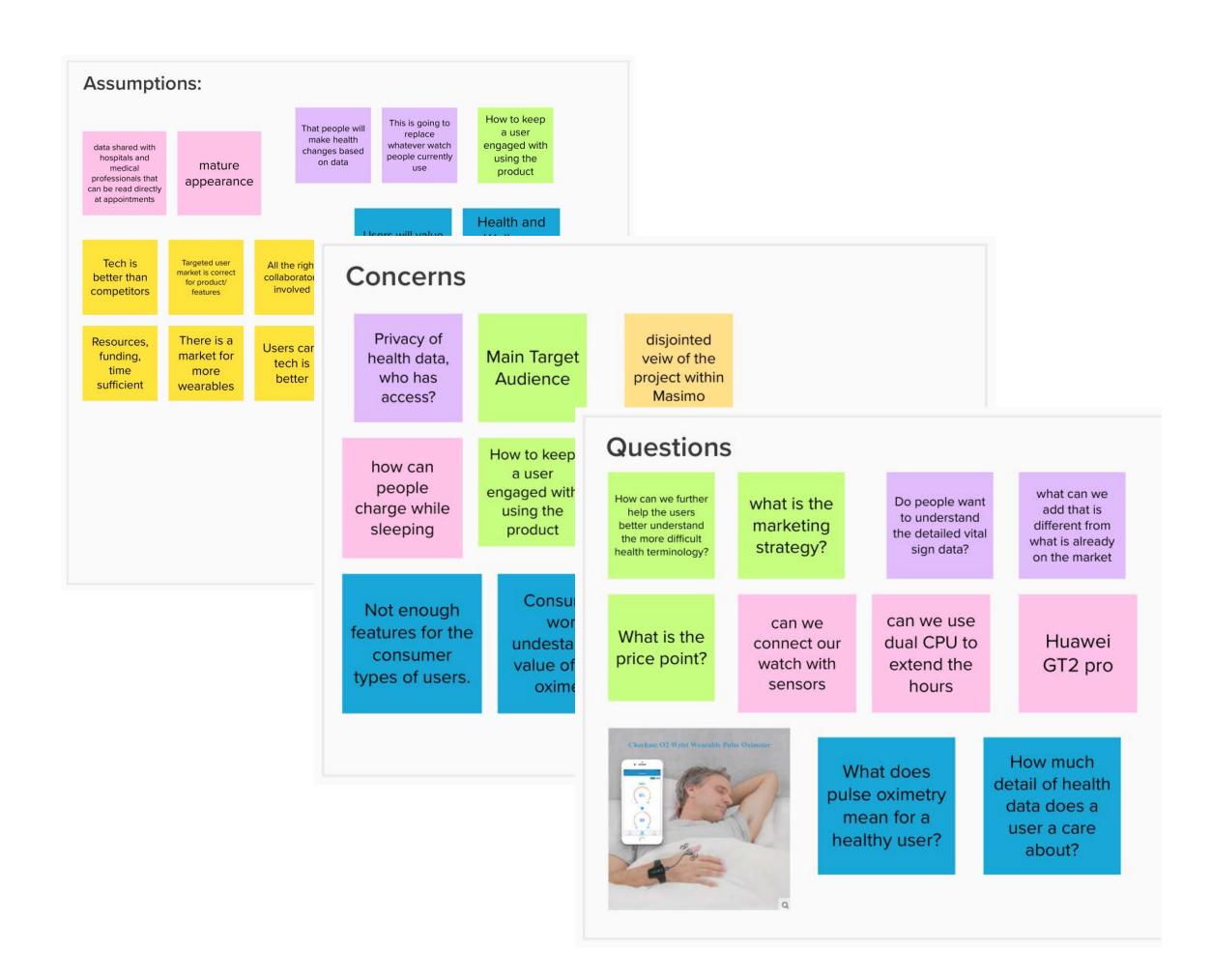
Niche market focusing on medical needs

#### **Our Strength**

Data Accuracy (sleep tracking, SpO2, etc.)

#### Personas

# **Athletes** Patients / Health Focused **Doctors** 9900 0:000 ±75. **0** - • - ∞ <del>=</del> + ≡ **6**+••• 三十章 章 THE PROPERTY OF THE PROPERTY O



## 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?

## We Found Out

Do users want to understand the details of data?

Only when alarming

How much detail does a user care?

Not much

How to make vital signs meaningful to them?
Related to sleep quality and exercise outcome

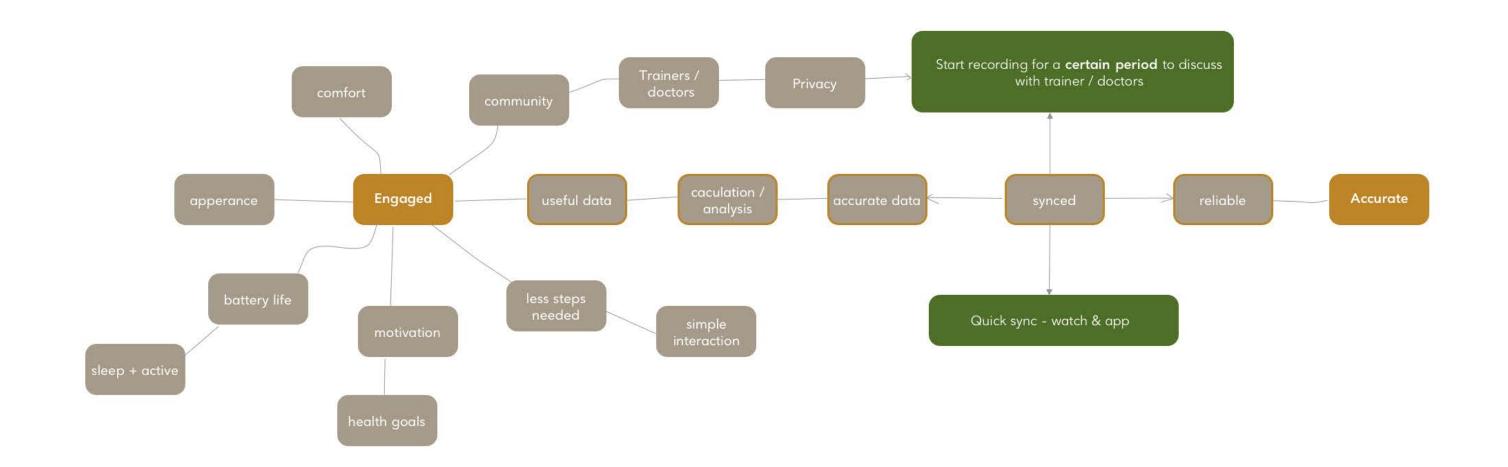
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# Our Goals

- 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

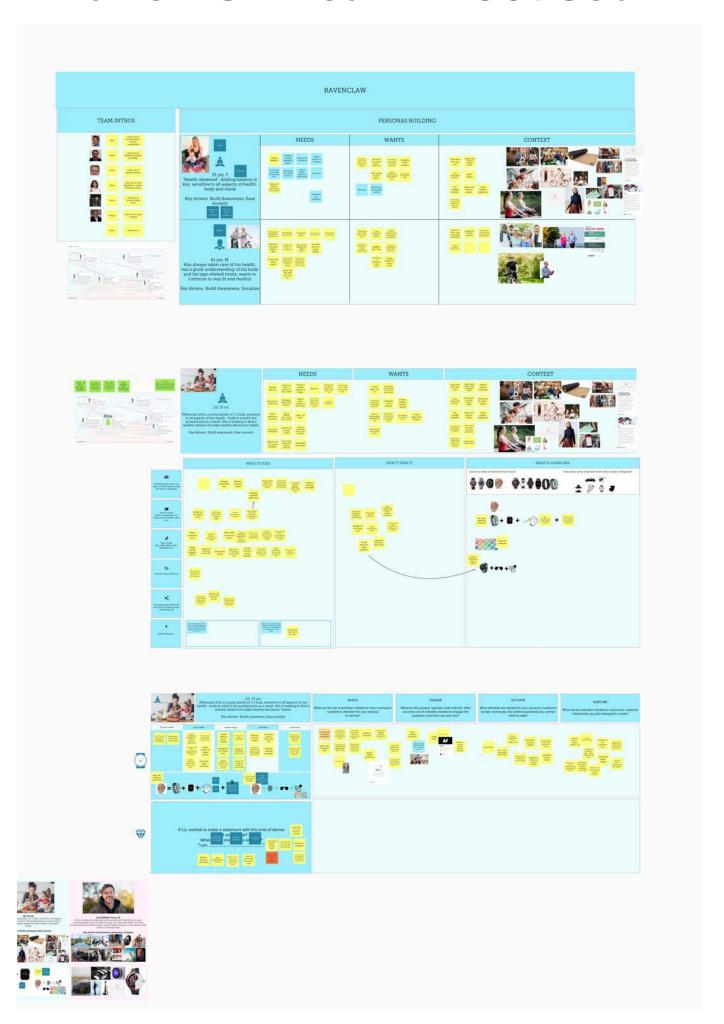
Provide accurate data to patients

Milestone 2

Help athletes with performance

Engage doctors

# Milestone 2 Athletes Milestone 1 Milestone 2 Doctors



My Assignments

The Other UX Designer

Dashboard

Watch Interface

Live Measurement

Menu

History

Settings

Activities

On Boarding

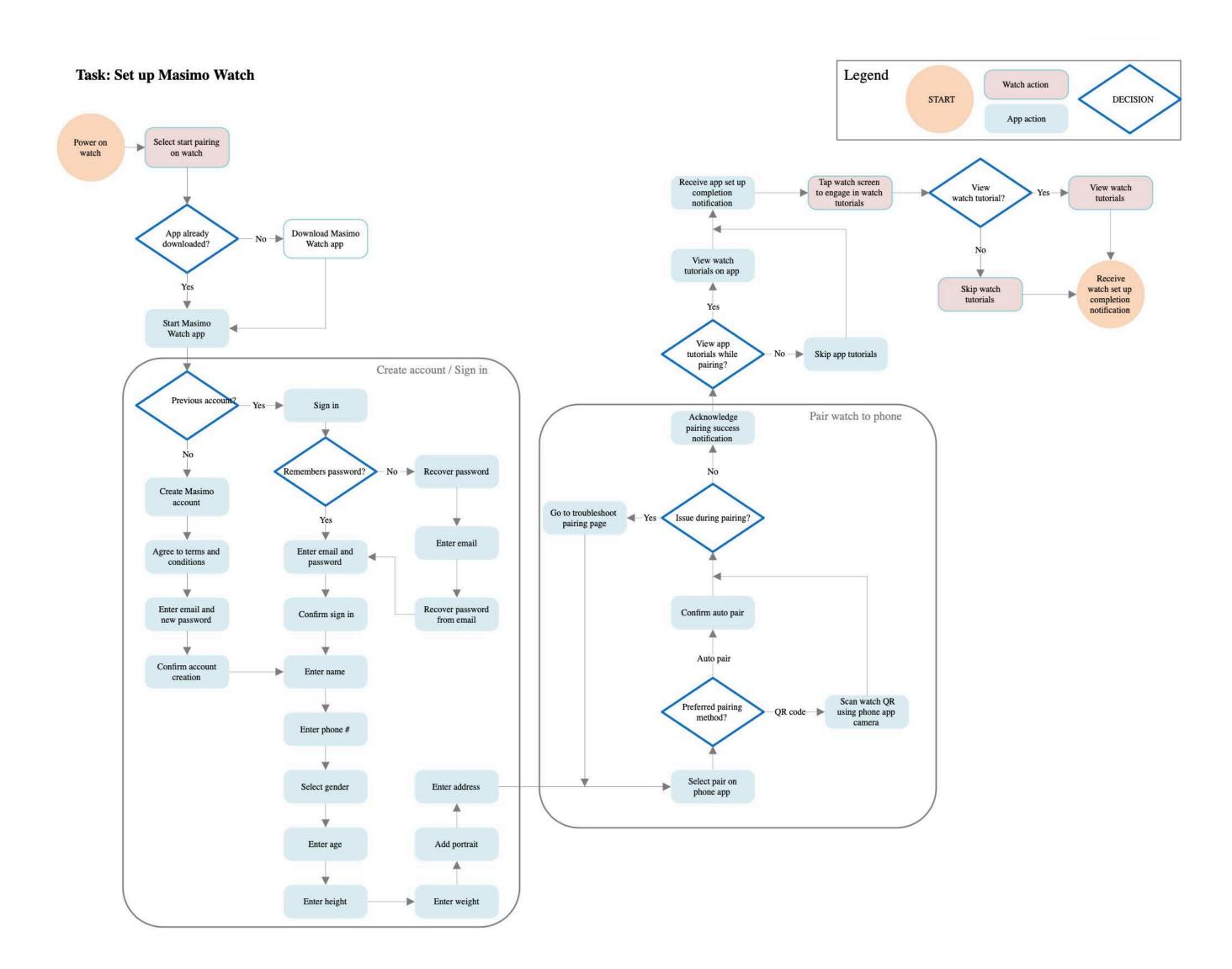
Sleep

**Fitness** 



Measurement	continues spot check	Sleep	analysis report
Activities	calories movement steps	History	filter calender sessions
Fitness	sports vital signs	Stop Watch	
	report	Settings	

## **User Flow**



#### Dashboard Ideation

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



#### Option B (Mine)

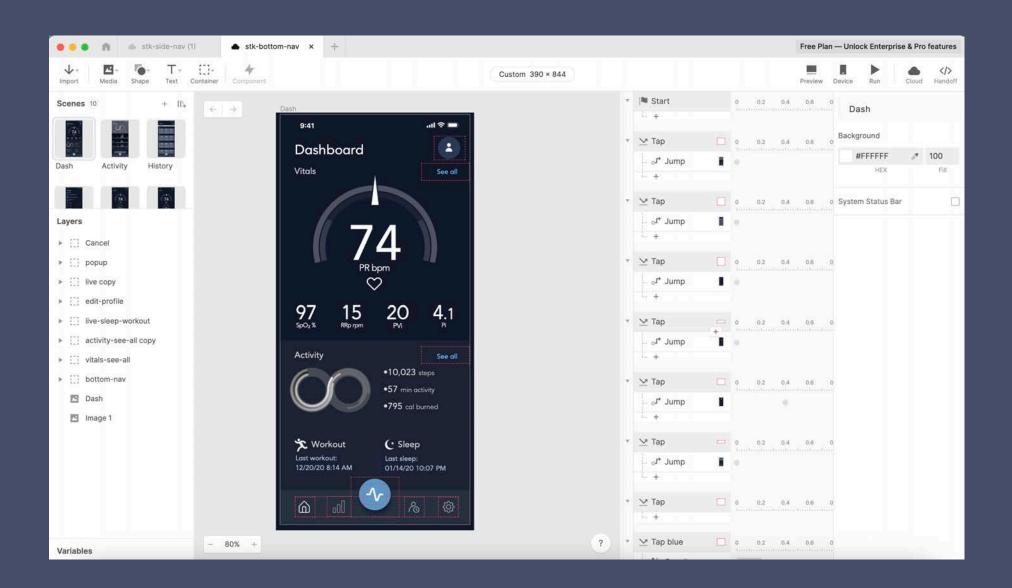


#### Option C (Mine)



#### 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)



# A / B Testing

The result showing that users prefer the bottom navigation, but they like the card design that I proposed.

Top/Bottom	T1-Tutorial understandsbilly, value	T2-Help Menu Improvement in understandability, when  T3-Help Menu Improvement in understandability, when  T4-Help Menu Improvement in understandability, when  T5-Help Menu Improvement in understandability, when  T6-Help Menu Improvement in understandability, when  T7-Help Menu Improvement in understandability, when  T8-Help Menu Improvement in understandability  T8-Help Menu Improvement in	T3-1st Check  Could they? sale of teel/loons, understandsbillty, arrangement  17 18 Mariane County C	T4-Find Interval ability to navigata, interact, language	T5- Change interval inbits to change it, understand interaction	T6-Interpret Continuous  notice difference between one time measurement  Notice difference between one time meas	T7-Spot Check Language, verify success  Transmitted to the control of the control	T8-Stop Measurement Language, verify success  Fy party with year w	T9-Restart Measurement  Language, verify soccess.	T10-Locate Trend  brouble finding!	ability to find, challenge pressing, value  that was to be the service of the ser	T12-Expand T ability to find, challenge pressing	T10-Expand (b) solity to find, challenge pressing	T11-Locate (B)	T12-Hide (B)
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#### 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)

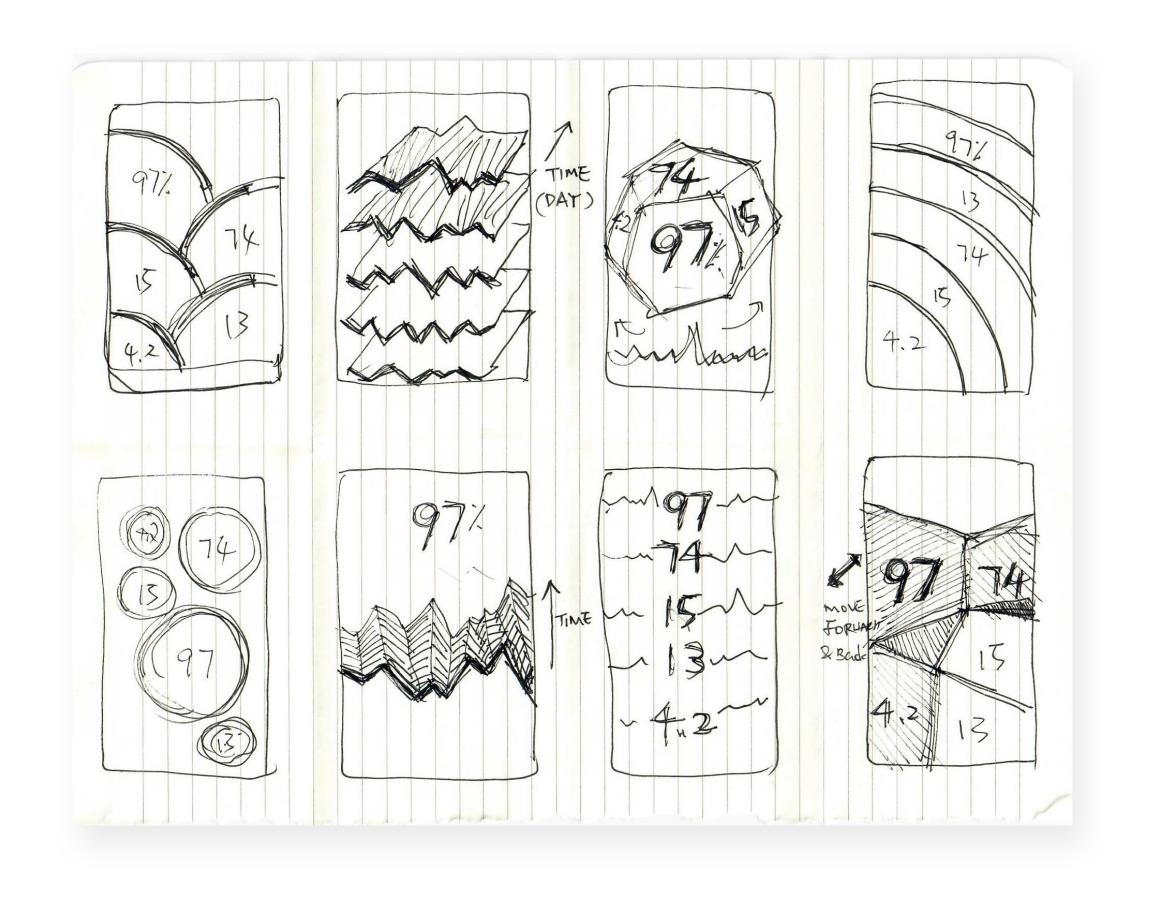


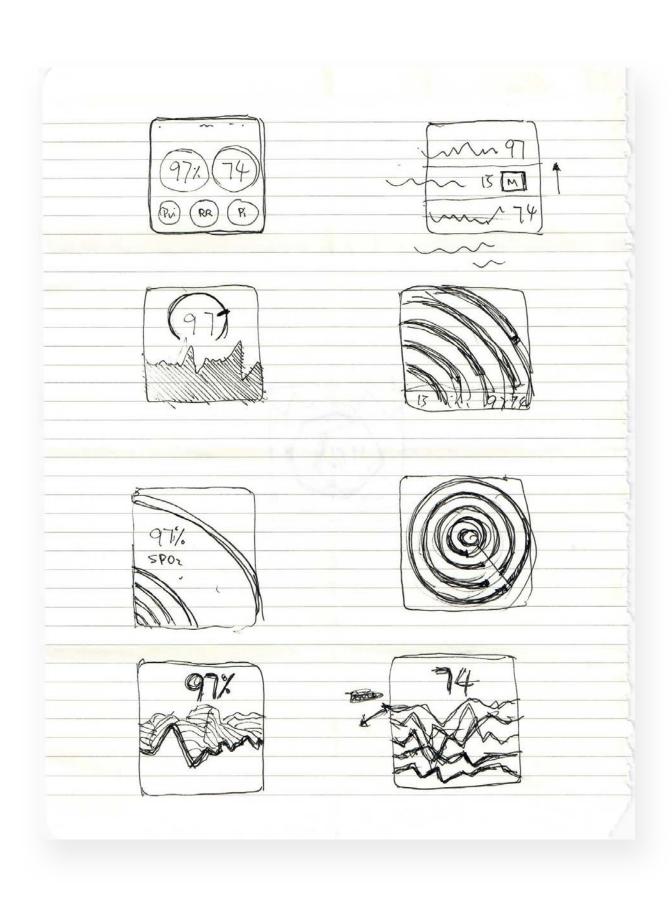
#### Comments From VP:

Consistent With other Masimo Devices

More Professional Looking

# My Concepts For Essential Screens

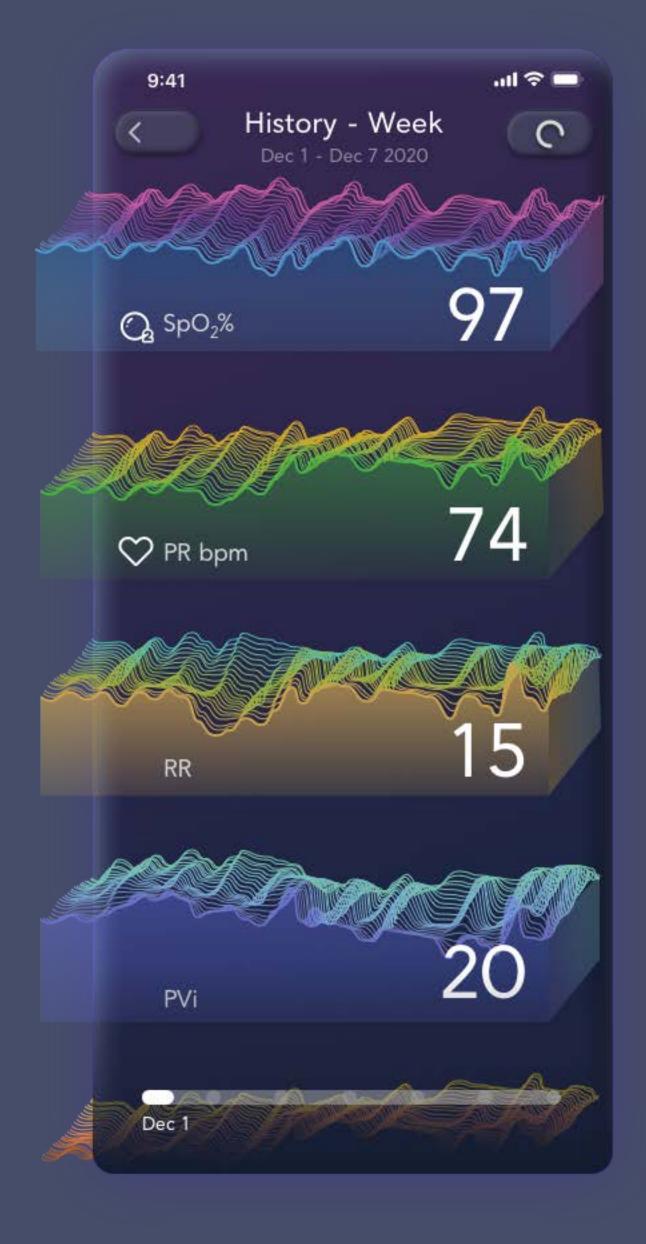




### **Monitor Screens Ideation**

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.

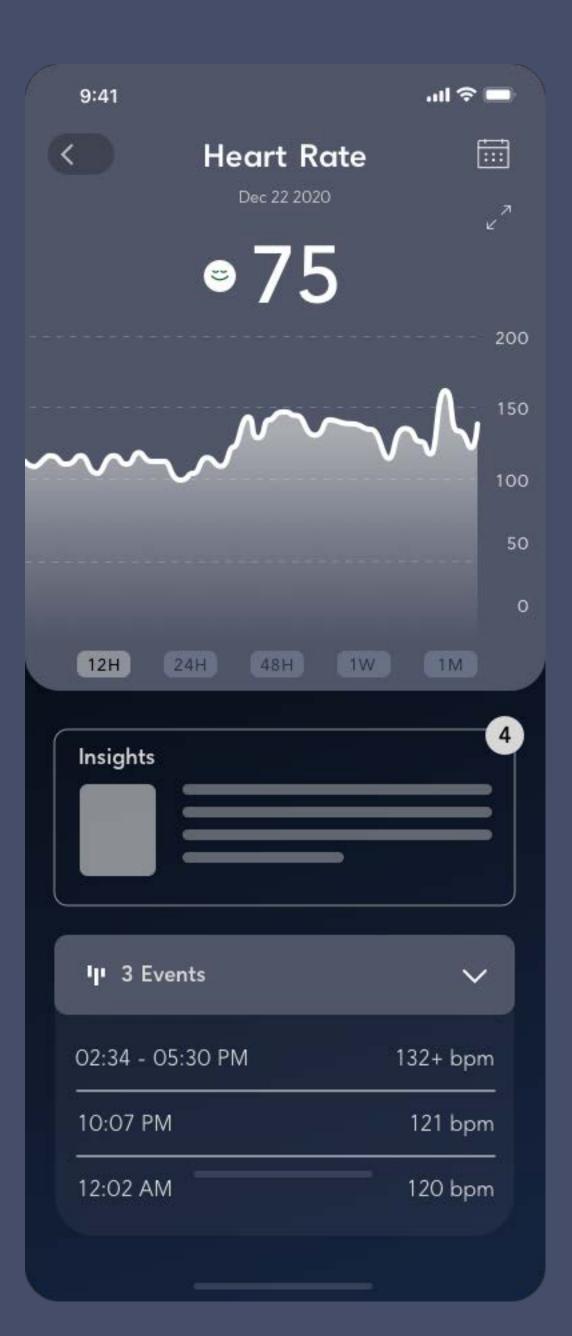




## **History Screens Ideation**

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.

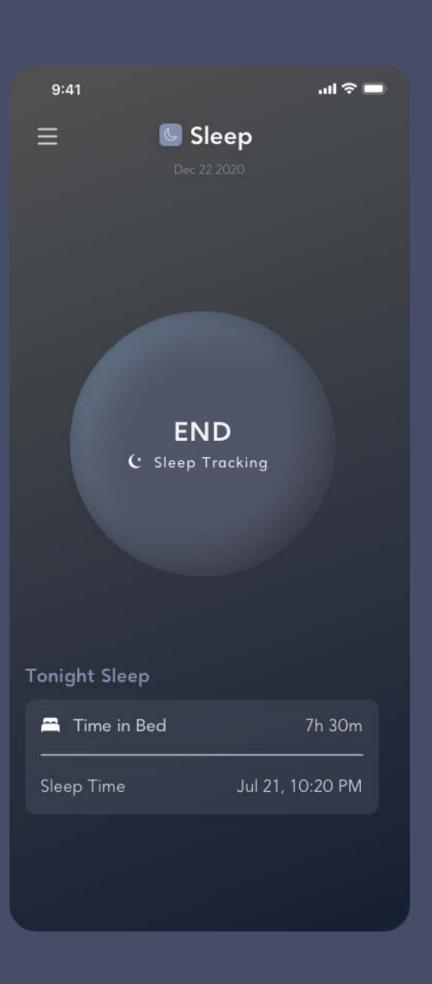
Utilizing my modeling skills, I successfully transformed 2D rings into a dynamic 3D loop through a strategic revision.



## 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.





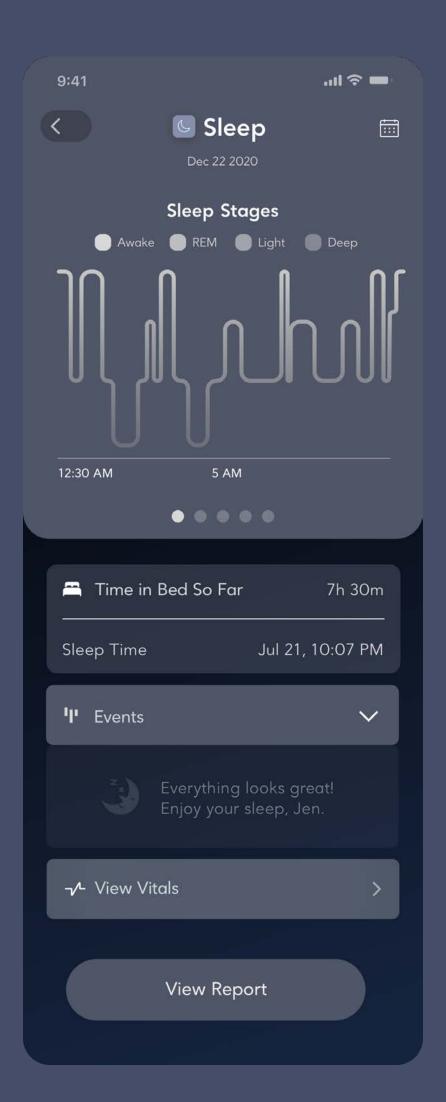




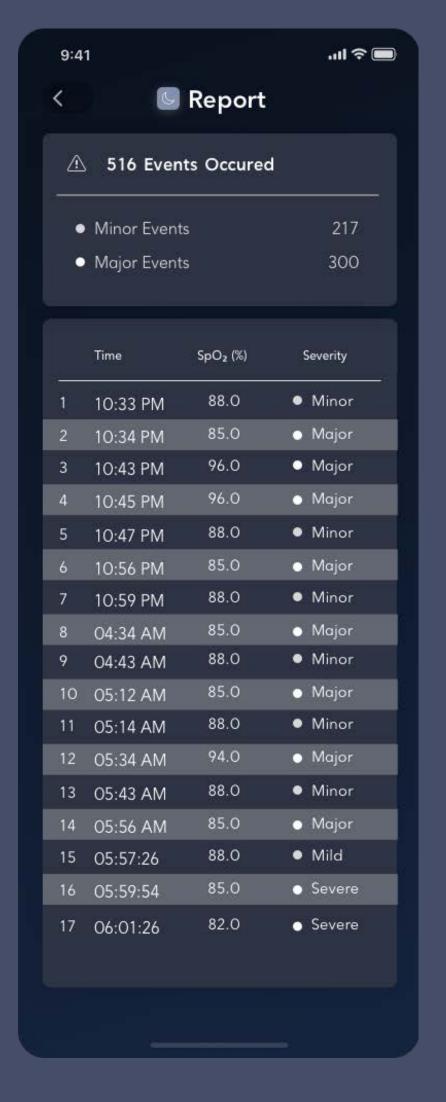
#### Sleep Report Screens Design











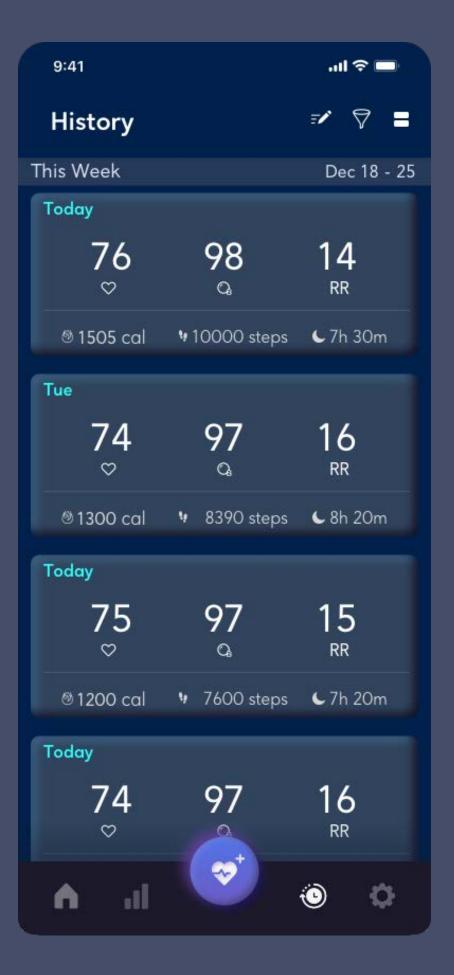
## High Fidelity - Key Screens

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:

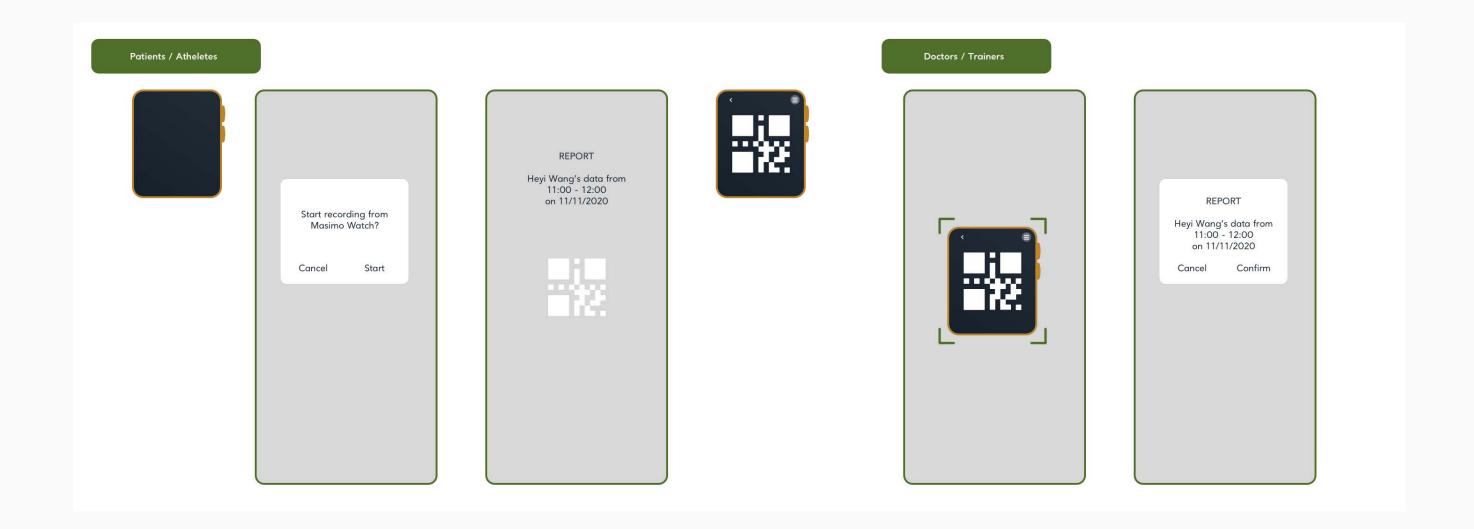
If validated by users

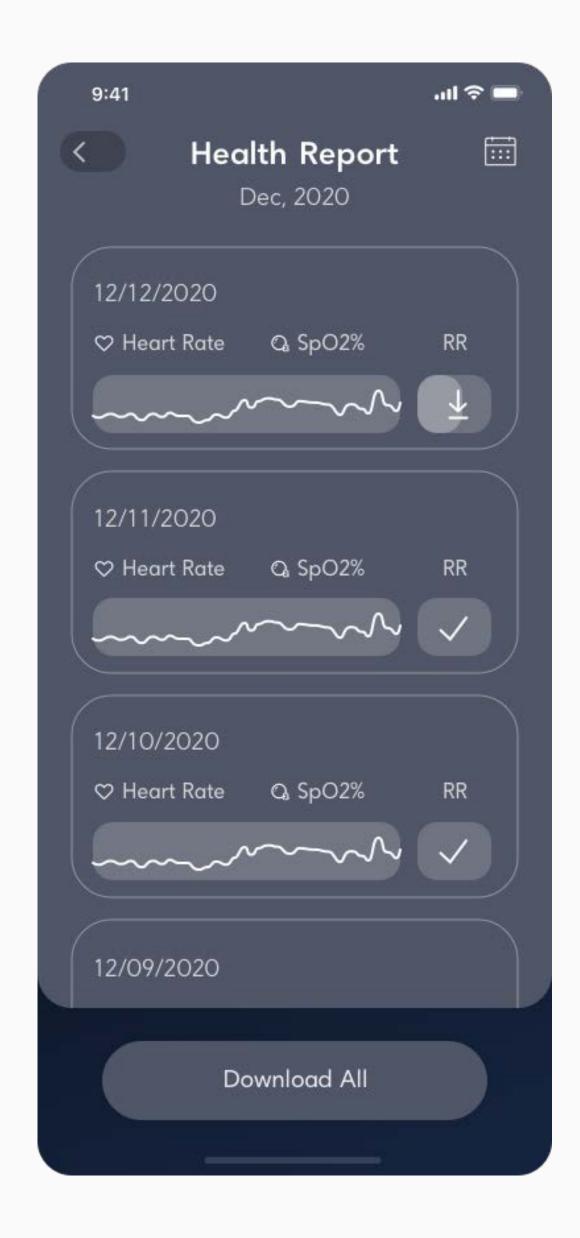
Generate "Cloud Reports" For Medical Needs

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.

