

Role	Context	Durtion
Product Designer	Smart Watch Operating System	(00:00:00)
This project consisted of researching, designing and prototyping to createmarketing landing pages.		
Research	<div><div></div></div>	
Interaction design	<div><div></div></div>	
Visual design	<div><div></div></div>	

CLIENT DETAILS

Understanding the company.

About

It’s a watch first and foremost. Cronologics enables high-quality, brand specific, customizable wearable products within a scalable Android-based architecture.

Design challenge

What if your smart watch software worked on the hardware of the biggest watch brands like Rolex, Breitling, Omega, Cartier, Fossil etc.? The Cronologics operating system aimed to partner with watch brands to bring technology to raditional watches.

The lack of innovation in traditional watch brand hardware should not limit today’s modern day watch user. How might I improve the way that people know and trust their smart watch?

How might I improve the way that people know and trust their smart watch?

PROJECT TAGS

- Wearable
- tech
- iOS
- Android
- Bluetooth
- IFTTT
- Amazon Alexa

1
Product Manager

2
Product designer

3
Software Engineer

5
QA

01 /CHAPTER
RESEARCH

KEY OBSERVATIONS

Asking the right questions.

Research goals

We made an effort to speak to a large audience of traditional watch enthusiasts & iWatch, Android wear, Fitbit etc. more technical individuals, to see how i will be able to bridge the gap of old fashioned look and feel with the modern day connected world. Being able to bring the best of both worlds together was an interesting exploration task.

Fashion design

Let's face it, if a watch's interface and industrial design do not look great or are not versatile enough to match different outfits and scenarios, they will most likely end up in a drawer for weeks at a time. While looking around me at the different accessories that people had on, it struck me that people express themselves through the things that they wear, yet not every operating system or hardware device accommodates to every user

“

What would compel you to want to wear the same watch on a daily basis?

“

How long do you expect the battery to last on a smart watch?

“

How often would you customize your watch face if you had infinite selections to pick from?

Industrial design

Through some user research, I find out that the traditional watch hardware was still very much appealing to the average person. However, with the recent saturation of smart watches in the marketplace, people also wanted their smartwatch to connect to their social media channels, emails, calendars, fitness trackers and more. Maintaining the authentic watch look and feel was key to a healthy balance between hardware and software.

“

What are the apps that you use on your phone that would be better suited on a watch?

“

How do you feel about being able to receive notifications based on your environment via your watch

Question areas

Coffee shops, restaurants etc

PERSONA DETAILS

synthesizing user research

Jamie Richards

Friendly | Tech savvy | Educated

Age: 27
Occupation: Graphic Designer
Status: Single
Location: San Jose, CA
tier: mid-level



“I hope that smart watches will become smart enough to notify me of the things that are appropriate based on where I’m at and what I’m doing”.

Pain points:

I’ve had issues with smart devices going off at the wrong times. At times, during important meetings while in the office and other times while hanging out with friends.

Goals:

I hope to keep my work/life balance at a healthy level. This means, not being bothered by work emails while I’m out and about with family and friends.

Efrain E. Vargas

Active | Foodie | Self taught

Age: 42
Occupation: Barber
Status: Married
Location: Brooklyn, NY
Tier: Senior



“Being able to glance at my watch while cutting hair is key to being efficient, while staying up to date with my client appointments”.

Pain points:

Managing my schedule can be hectic while being at work. I need to manage clients, quickly reply to messages and rear-range appointments on the fly. But I don’t have an iPhone so I cannot get the iWatch.

Goals:

I hope to find a stylish watch that is versatile enough to match my active lifestyle outside of work, while also being useful with long battery life

Jonathan Ibarra

Backpacker | Tech savvy | Motivated

Age: 19

Occupation: Salesman

Status: Married

Location: Bowling Green, KY

Tier: Junior



“I love my Breitling watch. Although, it’s a shame that they don’t have a smart watch version with the same industrial design”.

Pain points:

The traditional watch look and feel is the main reason why I wear watches, but because of this I miss out on notification at a glance, my favorite apps, and quickly changing my watchfaces depending on my mood.

Goals:

For my next smart watch, I look to get the old fashioned look and feel with some technology combined. Mainly because smart watches today are not watches, they are little computers on our wrists.

Understanding the competition.

Fitbit

Alta Activity Tracker

This watch is meant for those who have the need for only two things in a smart watch or device. It's designed for health and fitness & has a stylish look and feel for different environments.

Pros

- ___ Great activity tracker
- ___ Logs your sleep
- ___ 5 day battery duration
- ___ Innovative move reminders

Cons

- ___ No buttons
- ___ No way to manually record activities on the device
- ___ Notifications are limited
- ___ Not water proof or resistant

Apple watch

iWatch

Like many Apple products, the iWatch has a "unique" look and feel that is combined with innovative new technologies that help you manage your apps, calendar, health and more.

Pros

- ___ Pressure sensitive force touch
- ___ Taptic engine notifications
- ___ Digital crown to scroll or zoom
- ___ Customizable watch bands

Cons

- ___ Minature phone on your wrist
- ___ Notification overload
- ___ Apps take too long to load
- ___ Can't download new 3rd party watch faces

Samsang

Gear S3 frontier

This version of the Samsung Gear is specifically targeted toward individuals with very active lifestyles as you can gather from the rugged look and silicon straps.

Pros

- ___ 4G LTE untethered use
- ___ MST Samsung paid transactions
- ___ Bezel spinner
- ___ 3 day battery duration

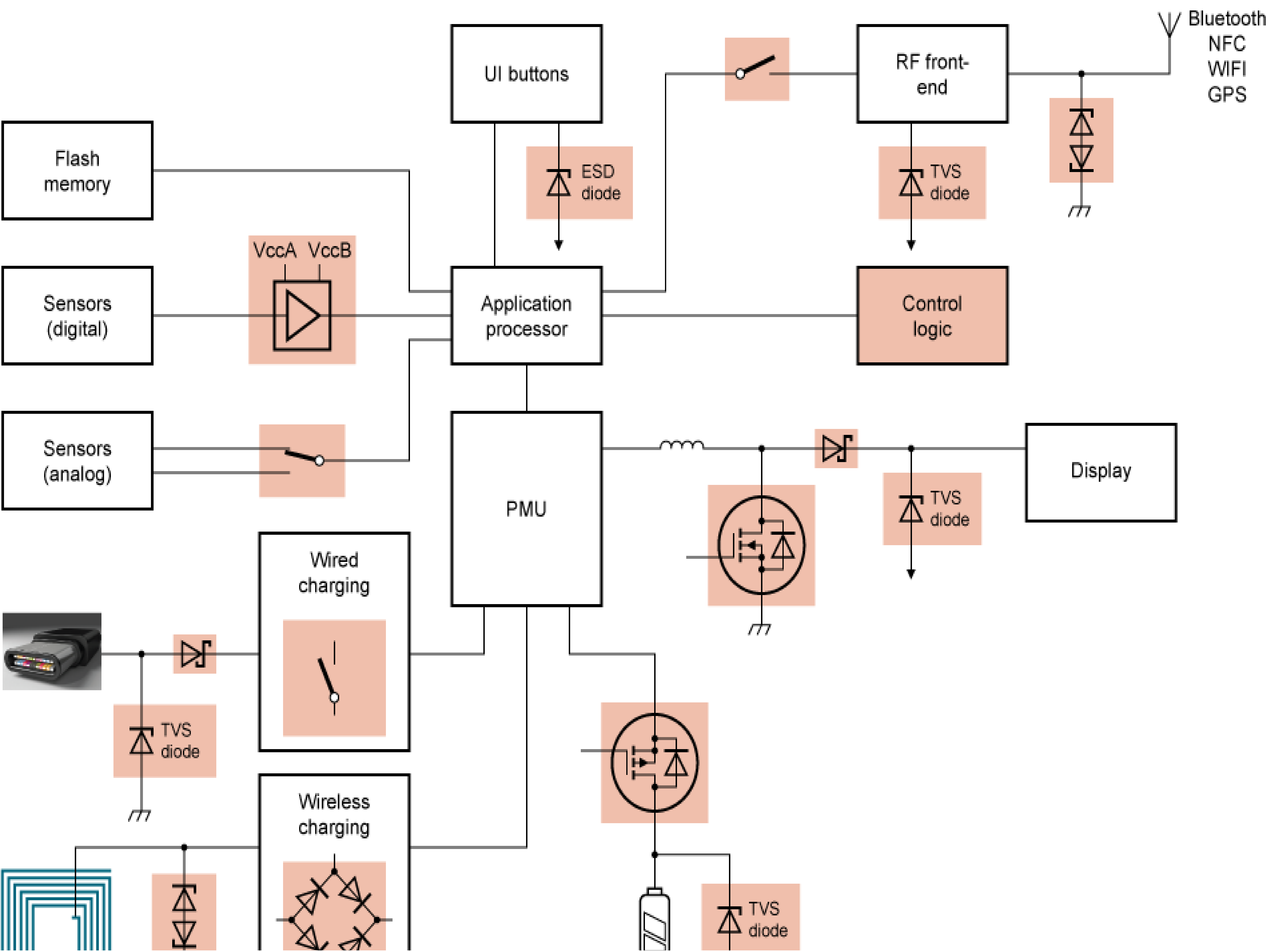
Cons

- ___ Not accurate fitness tracker
- ___ Higher heart rate readings
- ___ Limited app selection
- ___ Suggested top apps are not great
- ___ Does not work on iPhones

02/CHAPTER *INTERACTION*

____ WIREFRAMES

Low fidelity interactions.



Gestures

Minimizing the amount of steps to get a job done requires deep understanding of user behavior, market research and operating system limitation. While selecting the primary, secondary and tertiary gestures on the OS, we looked for easy ways to delight the users, with battery limitations in mind. No micro-interactions meant the users get bored, and too much animation meant sacrificing battery power.

Rotate clock wise

Rotate counter clockwise

swipe up and down

tap up

tap down

tap right

tap left

tap + hold for 2 sec

tap + hold for 3 sec

tap + hold for 4 sec

tap + hold for 5 sec

Primary watchface interactions

While other competitors pride themselves on how deep into numerous actions a user is able to go, the Cronologics OS is built on top of a minimalistic foundation. Getting the user from point A to point B, could not be any easier as you can see from the user flow below. Doing so allows the user to not only access their apps quickly, but also allows the watch to be what it’s mean to be, a watch.

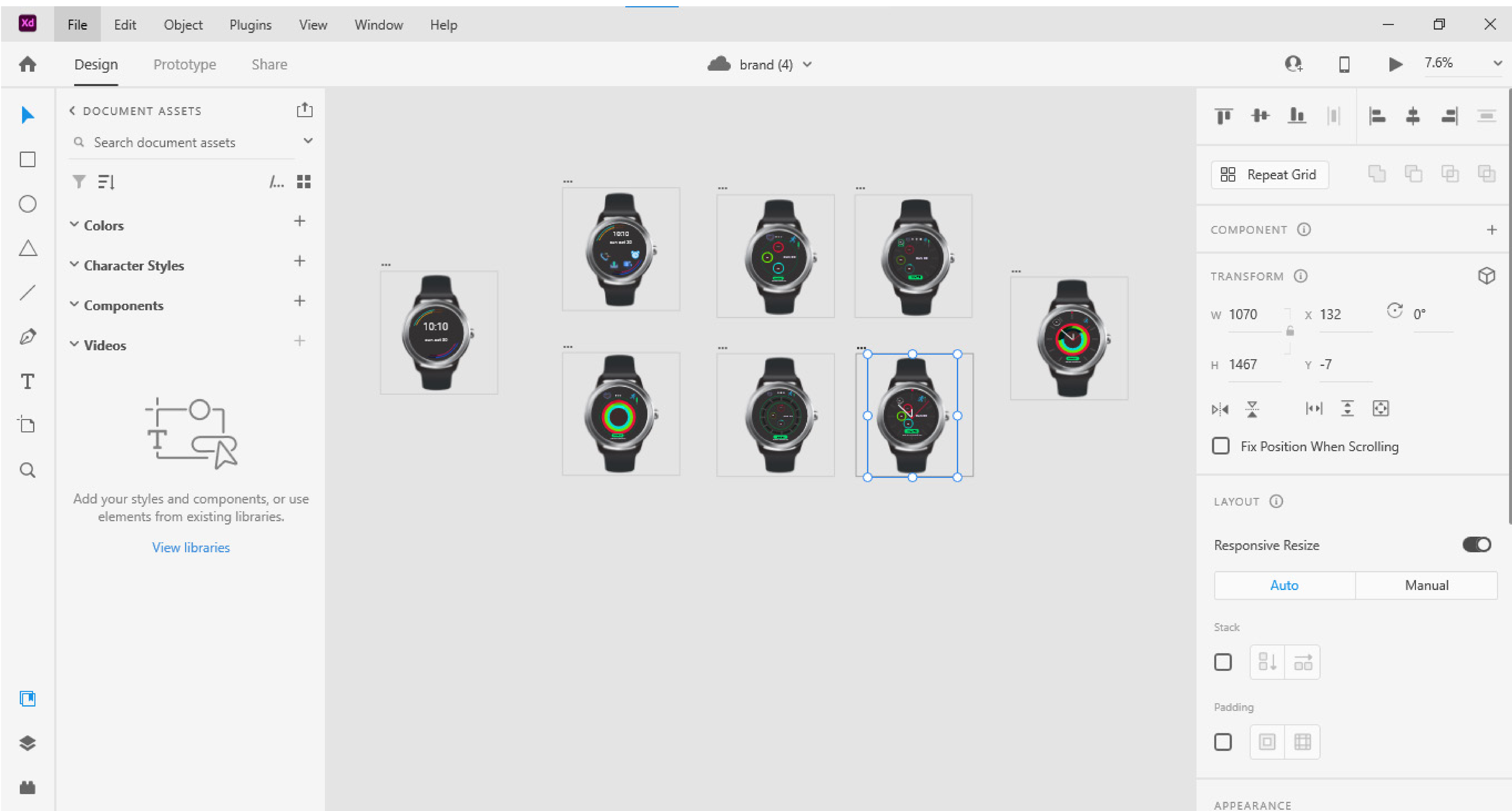
Micro applications

The apps on the OS are called “containers”. A user can easily access their containers by swiping left or right from the screen launcher (watch faces) or they can access all of their containers through the app drawer. Container also have their respective settings, which allows the users to customize notification settings, customizations etc. Some of these settings can also be edited on the companion applications for iOS & Android

03 / CHAPTER EXECUTION

_____ HIGH FIDELITY DESIGNS (FULL SCREEN CONTAINERS & NATIVE APP

Finalizing visual designs.

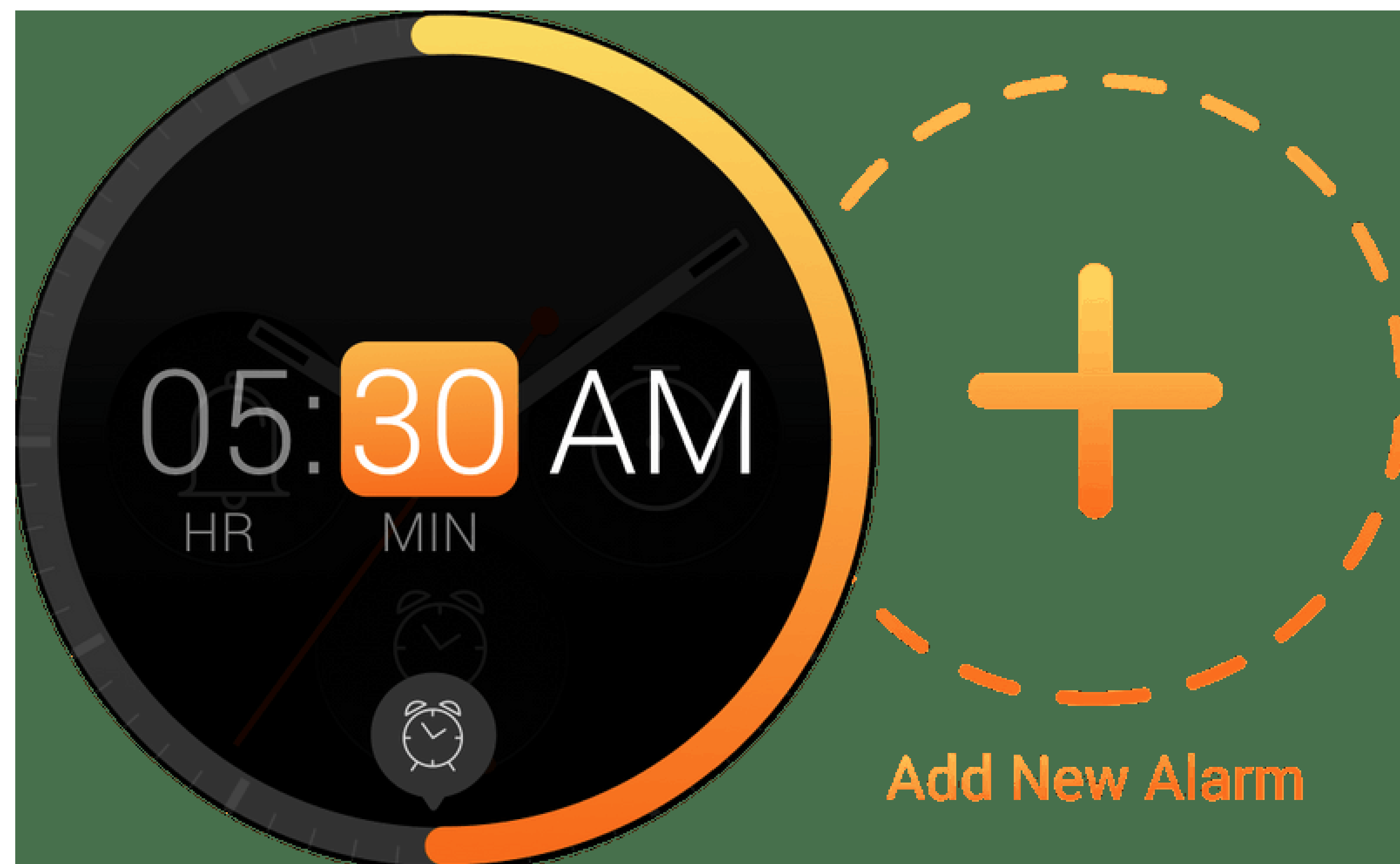
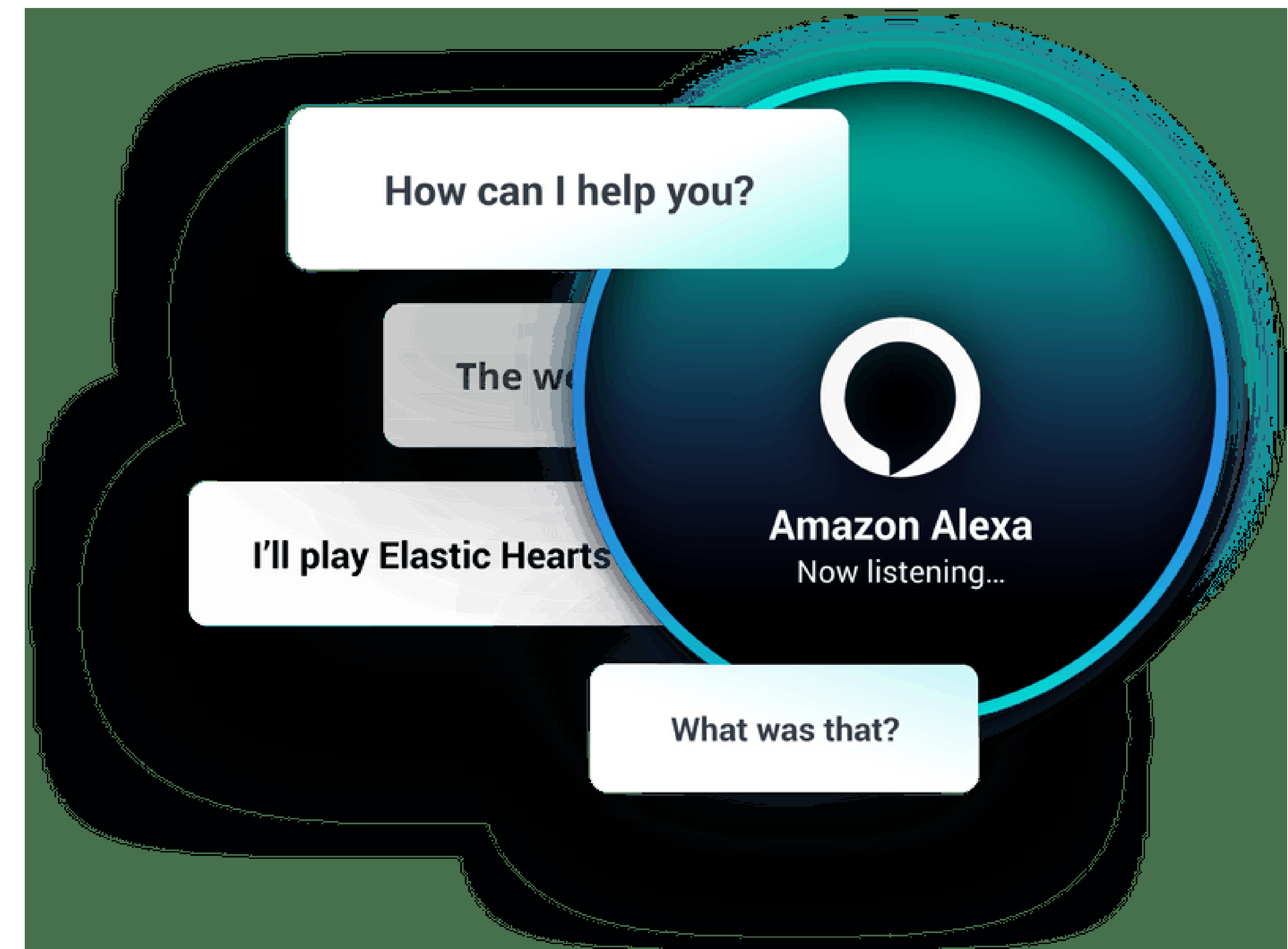


Amazon Alexa Container

Platform Voice Service

A digital assistant that can respond to a variety of queries and can respond to commands via voice or text depending on if a speaker is available.

\



Notification System UI

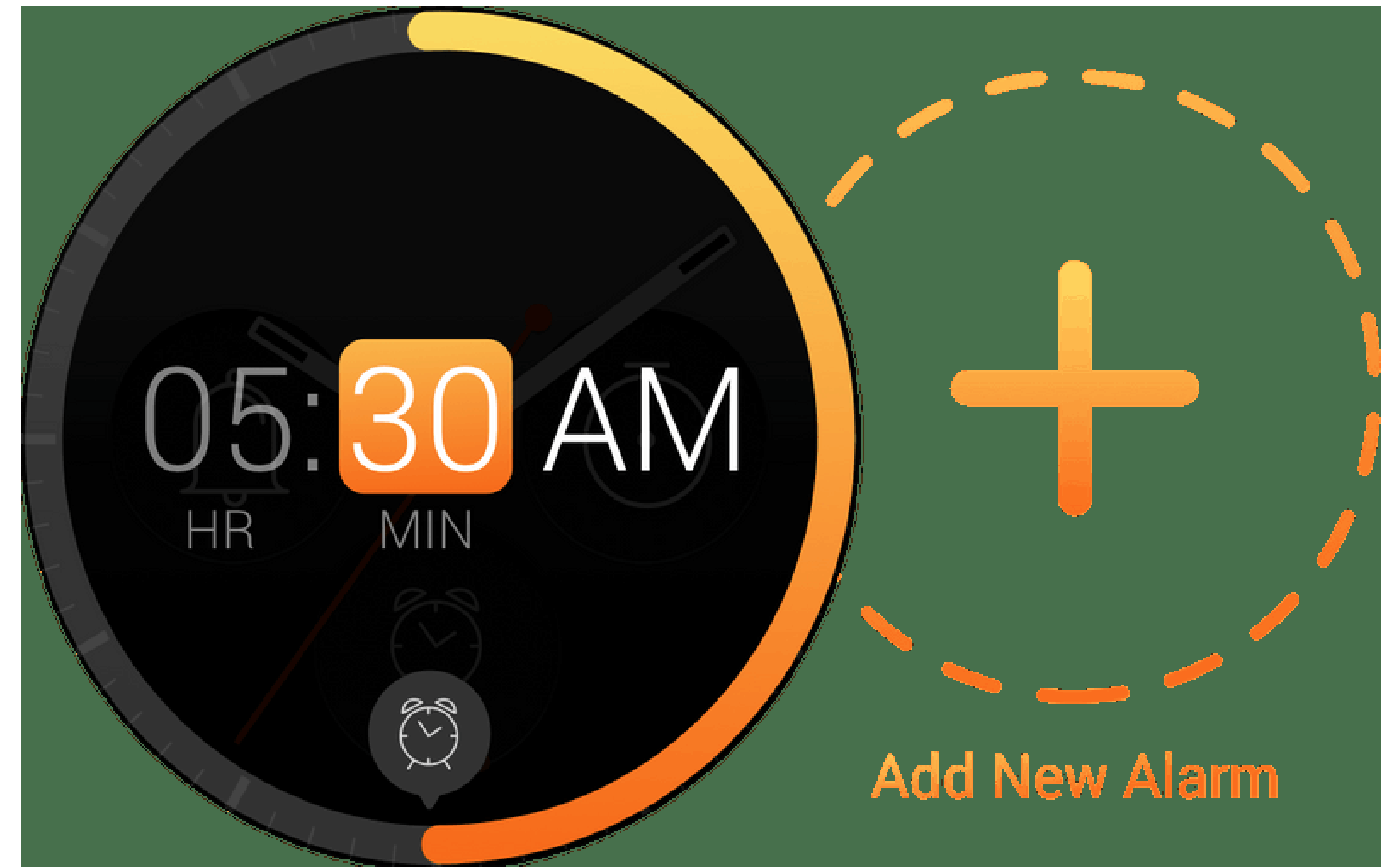
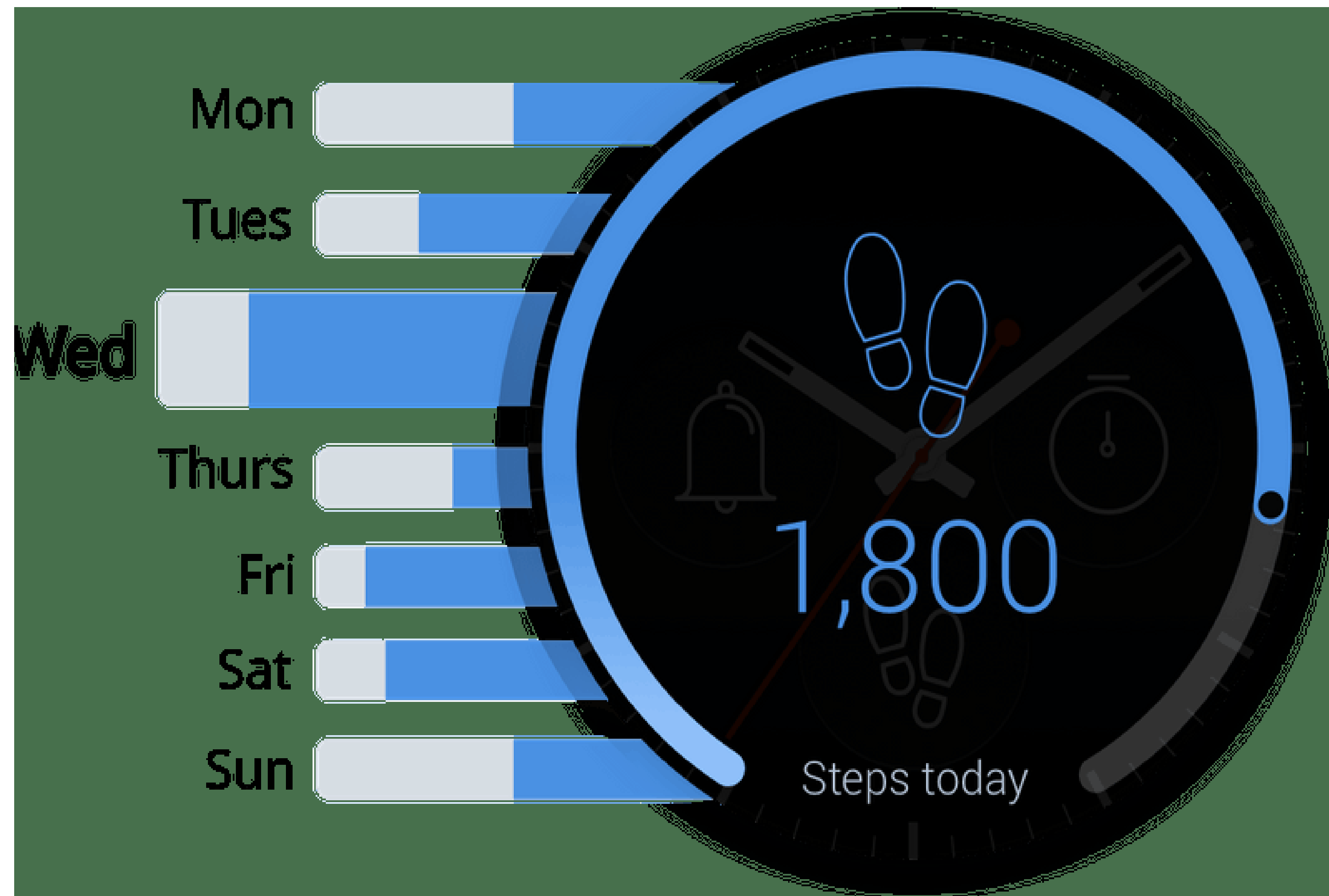
Drop down notifications from launcher

There are many types of notifications across iOS and Android. In general, they will be laid in a similar paradigm with the main difference being whether actions are shown at the end of notification. Notifications recieved recently will be displayed full screen first in the UI, followed by the list of all available notification.

Alarm container

Manage alarms from watch ui

Set local alarms on the watch. Eventually, it will allow for customization for if the alarm is vibrate only or sound as well if a speaker is available.



Step Counter Container

Activity monitor

Display the current number of steps for the day. End User can configure their target number of steps per day in the settings.

KEY FINDINGS

Measuring success.

the founder cultivated cultures that allowed to try new ideas, even if it means potential failure