Museum Alive App Design Case Study

Tanya Aubin



Project Duration

September 2022-January 2023

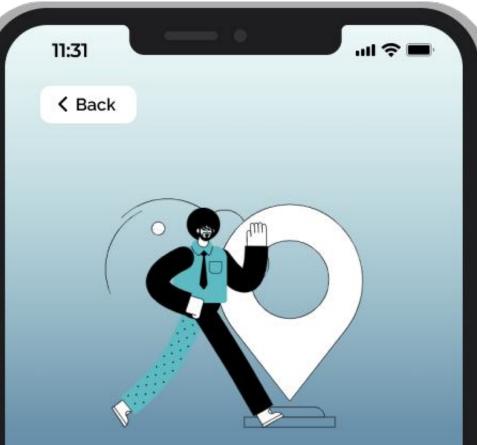






Choose a language





Where are you?

Easily navigate through the Balboa Park museum audio tours by



Project Overview

The Museum Alive app exists to create a pleasant user experience for museum visitors in Balboa Park, San Diego. With the 10+ museums that are in Balboa Park, this app is intended to streamline the audio tour experience for each museum. This case study includes user research, wireframes (paper and digital), low and high fidelity prototypes, and usability testings.



My Role

Solo UX/UI Designer – Student Project



My Responsibilities

- Conducting interviews
- Paper and digital wireframing
- Low and high fidelity prototyping
- Conducting usability testing
- Accounting for accessibility
- Iterating on designs



MUSEUM ALIVE

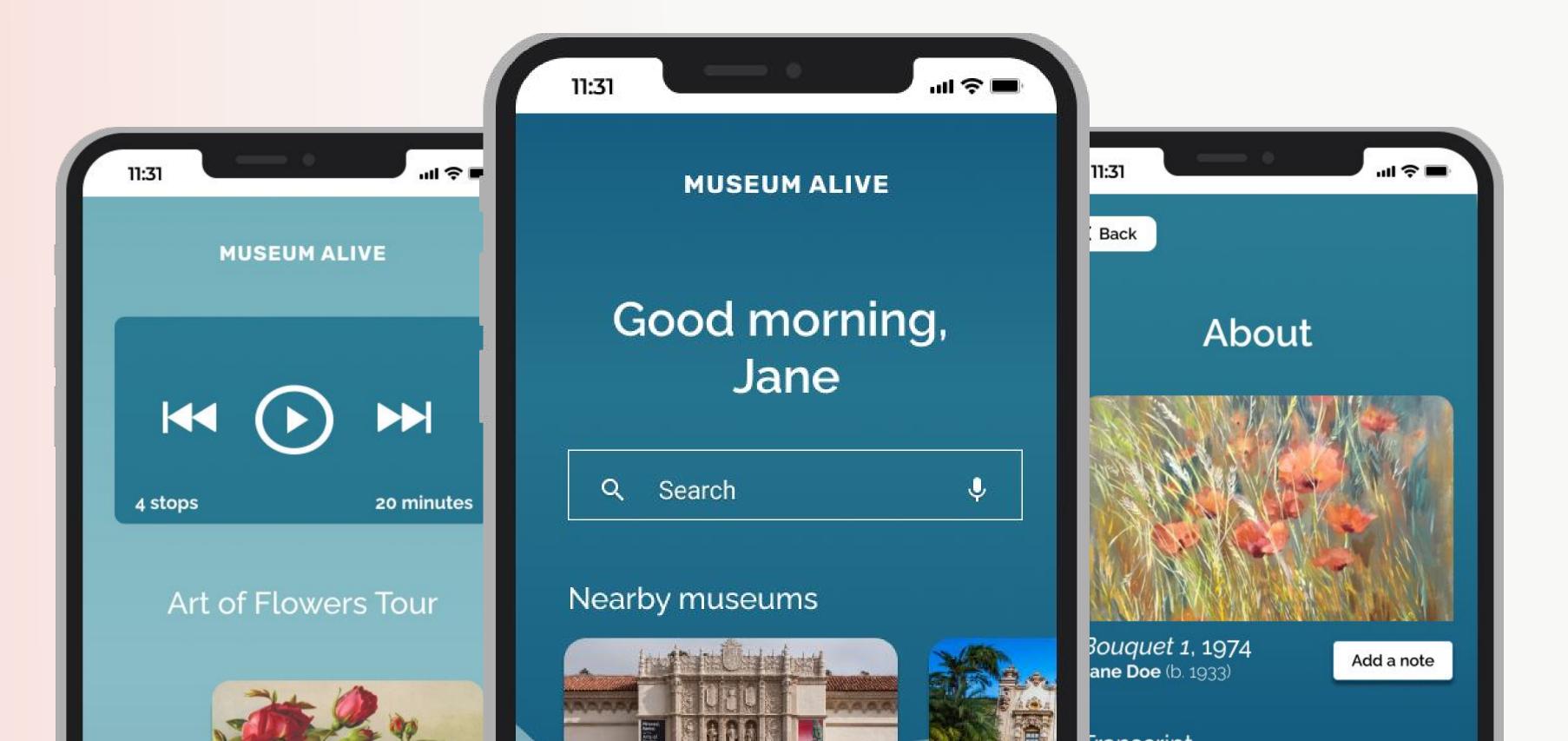
balboa park museum audio tours





The Problem

Most museum audio tour apps take too long to download, are difficult to navigate, and are not streamlined with other museums.



The Goal

To create a museum audio tour app that is easy to download and navigate while providing a streamlined experience at all Balboa Park museums as well as providing personalized features.

Summary

I conducted interviews and created empathy maps to understand the users I'm designing for and their needs. A primary user group identified through research included frequent museum visitors who are interested in arts and culture.

This user group confirmed initial assumptions about Museum Alive users, but research also revealed that these museum visitors had more frustrations and needs related to museum audio tours. Some frustrations expressed were the long app download time and navigation difficulty. Some needs and wants conveyed included a more streamlined process (one app for multiple museums), and a way to personalize the process (e.g., being able to take pictures, create notes about an item, learn more, and mark items as "favorites."

User Research





It usually takes a long time to download audio tour apps. In turn, this makes museum visitors impatient.

Most audio tour apps are clunky and difficult to navigate. This causes museum visitors to become frustrated.

Pain Points

Functionality



Typical audio tour apps do not provide links to more information and are not compatible with other museum audio tours.



Kathleen has always had a love for history, culture and art. In fact, she even has a Master's degree in history. As a Chinese language teacher, she makes sure to incorporate the history, etymology, art and culture related to the Chinese language.

When Kathleen is not teaching and/or a translating Chinese, she is usually studying and learning new things (like data analytics and UX design). In her free time, she visits museums, gardens, beaches and loves to read books. She also loves to be engaged in art experiences, such as learning how to create a tea ceremony.

Kathleen Zhang 32, Los Angeles, CA

LANGUAGE TEACHER + STUDENT

> Married Master's degree • \$50K

Goals (J)

- independence
- culture and art

Problem Statement

Kathleen is frustrated with museum audio tour apps that take too long to download and are not easy to navigate. She's also annoyed at the thought of needing to download another app for each museum she visits.

User Personas

Personality

- Leans introverted
- Friendly
- Curious
- Passionate
- Patient

(a) Motivations



Frustrations $\tilde{\mathbf{O}}$

- Apps with a lot of text, video, etc. take an extremely long time to download
- Limited time while visiting museums and/or sightseeing in a different city
- Irritated when museums use different systems (especially if the museums are in close proximity)

Would like obtain financial

• Hopes to see more relevant and updated art and museum exhibitions

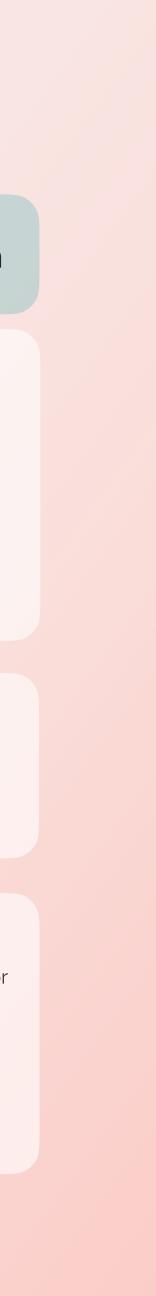
• Likes to teach others about history,



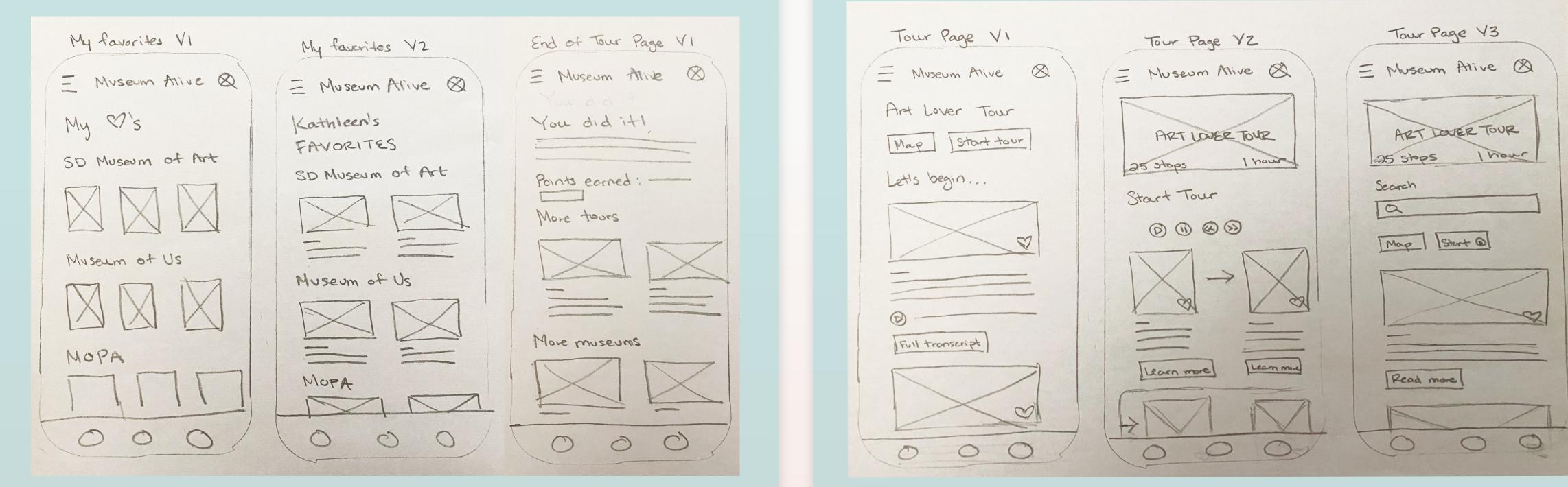
User Journey

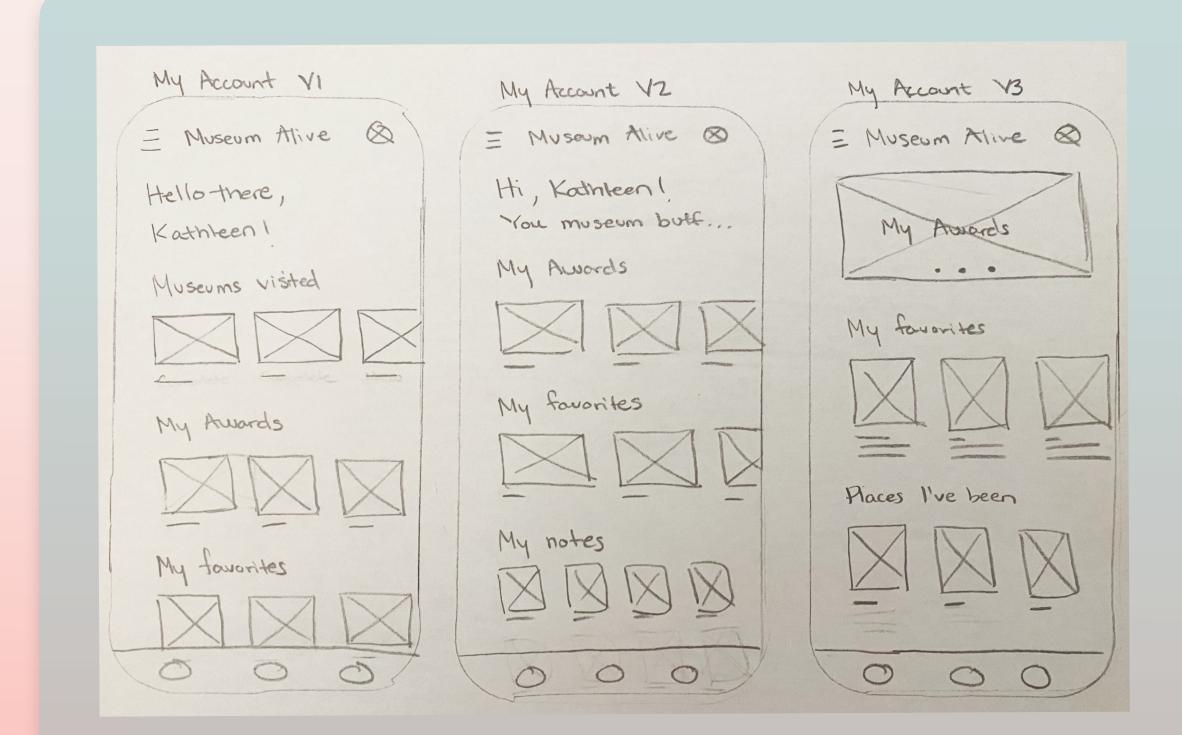
Action	Decides to go to a museum	Goes to museum of choice	Downloads audio tour app	Listens to audio tour app in museum	Leaves the museum
Tasks Lists	 Searches for museums in the area. Views the website of a few museums. Determines which museum she would like to visit based on current exhibitions. 	 Drives or walks to the museum that she decided to visit. Parks in the visitor parking lot (if driving). Continues to walk to the museum (if parking) and gets in line to purchase museum tickets (if charged). 	 Needs to search and download museum audio tour app. Waits for audio tour app to download Quickly looks at instructions on how to use the app before starting the tour. Gets a set of headphones from the museum (if she doesn't have her own set). 	 Walks through the museum and listens to the audio tour app. 	 Stops audio tour. Potentially deletes audio tour app. Return headphones (if borrowed).
Feelings Adjective	ExcitedCurious	 Adventurous Anxious Tired Anticipatory 	 Annoyed Impatient Anxious Curious 	 Overwhelmed Confused Interested	 Exhausted Overwhelmed Happy Tired
Improvement Opportunities	 Promote audio tour on the museum website Encourage future visitors to download app ahead of time Give app users an idea of what to expect when using the app 	 More signage between the parking lot and the museum to excite visitors Reminder signs to download the audio tour app 	 Create an app that does not take too long to download Have staff members present to help visitors with downloading the app (if needed Have all or part of the tour on their website (that complements the app) 	 Make app simple and easy to navigate Create main points that help visitors retain information Include a map of the museum 	 Create a way that visitors can continue to talk about and/or research favorite artifacts and/or art pieces.

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Early Concepts

Touritem VI = Museum Alive &	Tour item VZ = Museum Alive &	Tour item V3 = Museum Attive &
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Transcript	O O O O	Transcripts Read more
	Read more	- About the Related
Read more Related artworks	About the Related Artist artworks	Artist artuals DDD 000









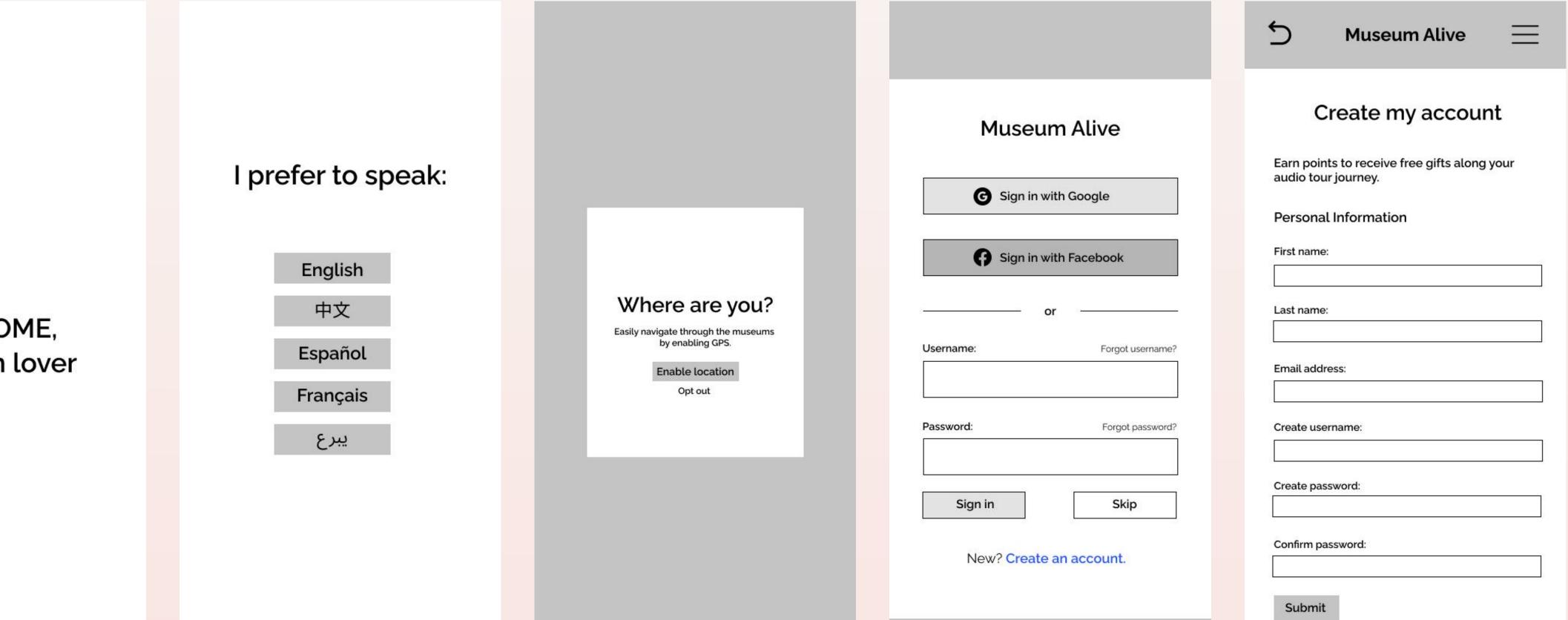








Lofi Wireframes and Prototype



WELCOME, museum lover

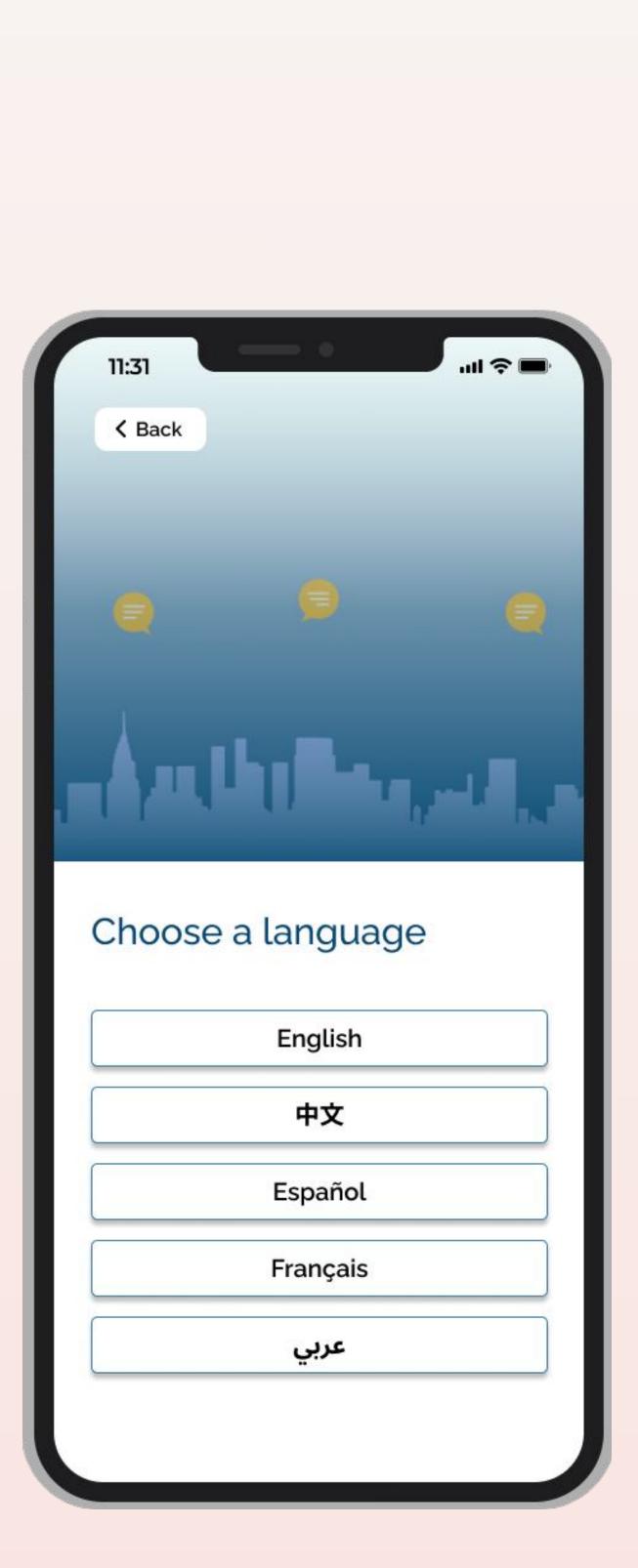
Museum Alive	Museum Alive			
				S Museum Alive =
<section-header><text></text></section-header>	Museum Alive My Awards My Awards My Awards Hey Jane Doe, Karby museums Select a museum Select a museum Opular tours Popular tours	Museum Alive	Museum Alive Art Lover Tour Map Q J Start tour I I Read more	Museum Alive Image: Stress stress Add a note Image: Stress stress Image: Stress stress stress stress Image: Stress



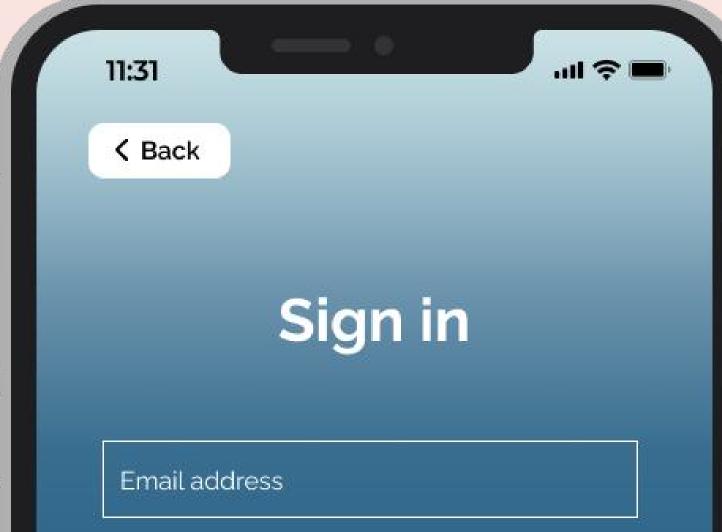


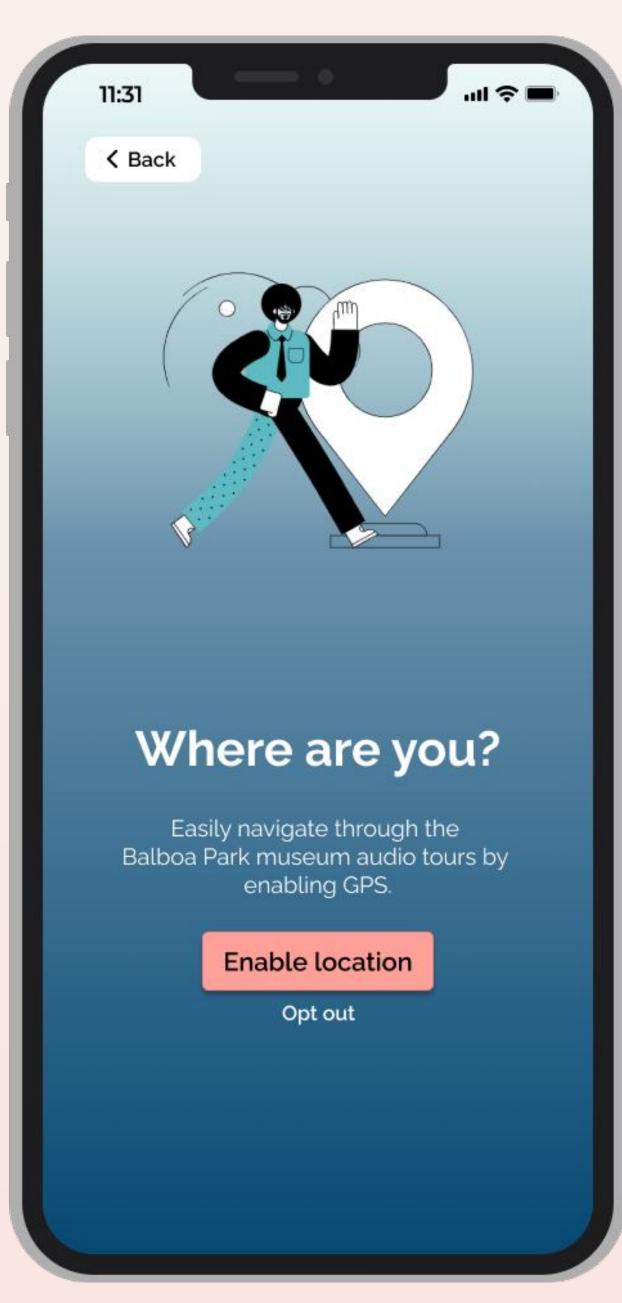
Hifi Mockups and Prototype

Onboarding Screens



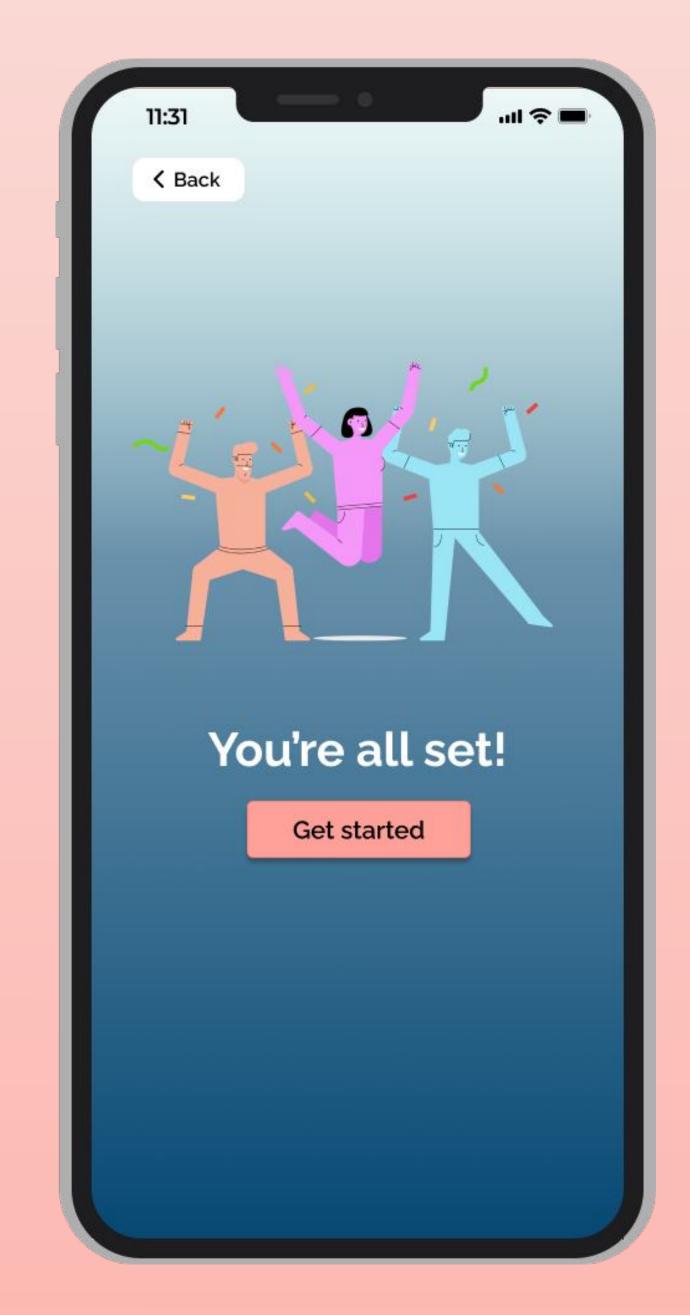




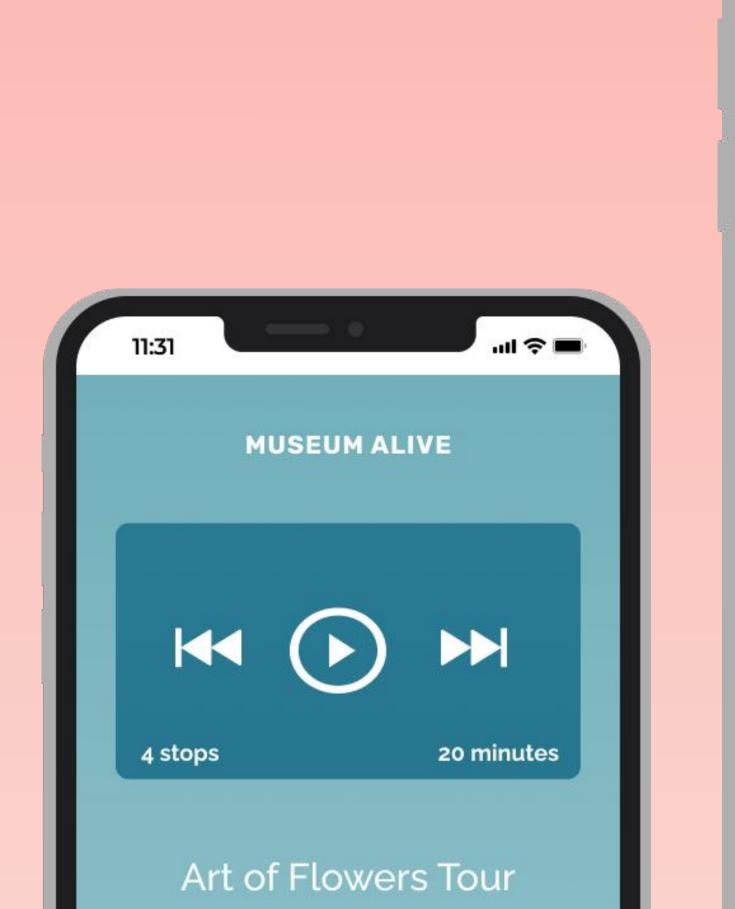


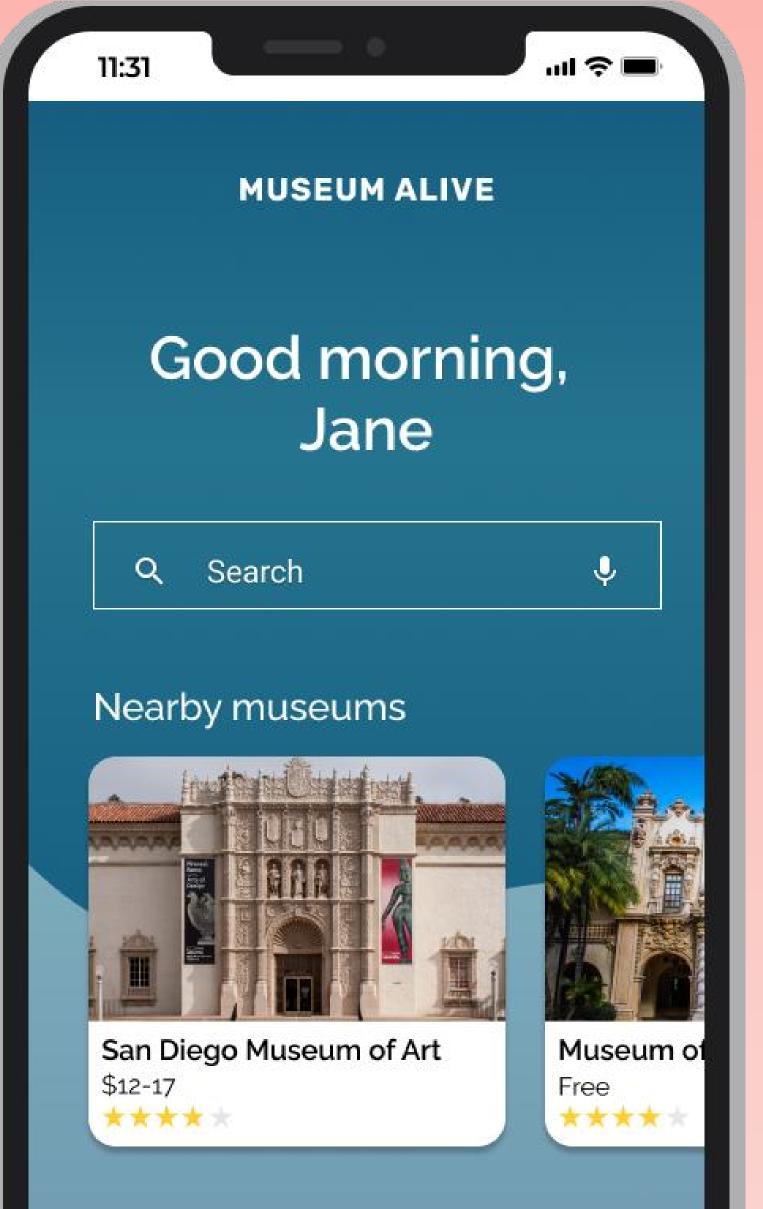
		\otimes
С	reate my accoun	t
	Earn points to receive free gifts along your audio tour journey.	
Fire	st name	
Las	st name	
Em	nail address	
Cre	eate username	
Cre	eate password	
Co	nfirm password	
	Submit	

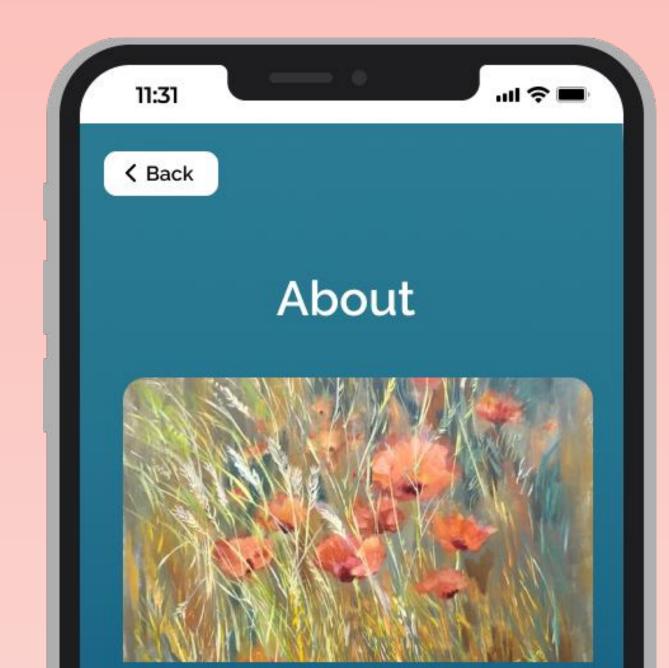
S	ign in	
	Skip	
	or	
🔐 Sign ir	n with Facebook	
G Sign ir	n with Google	
New? Crea	ite an account.	

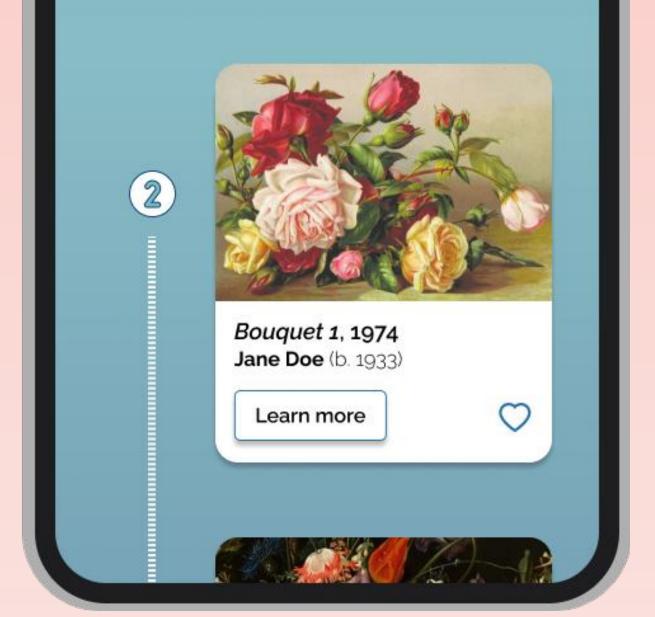


Tour Screens









Popular tours



Bouquet 1, 1974 Jane Doe (b. 1933)

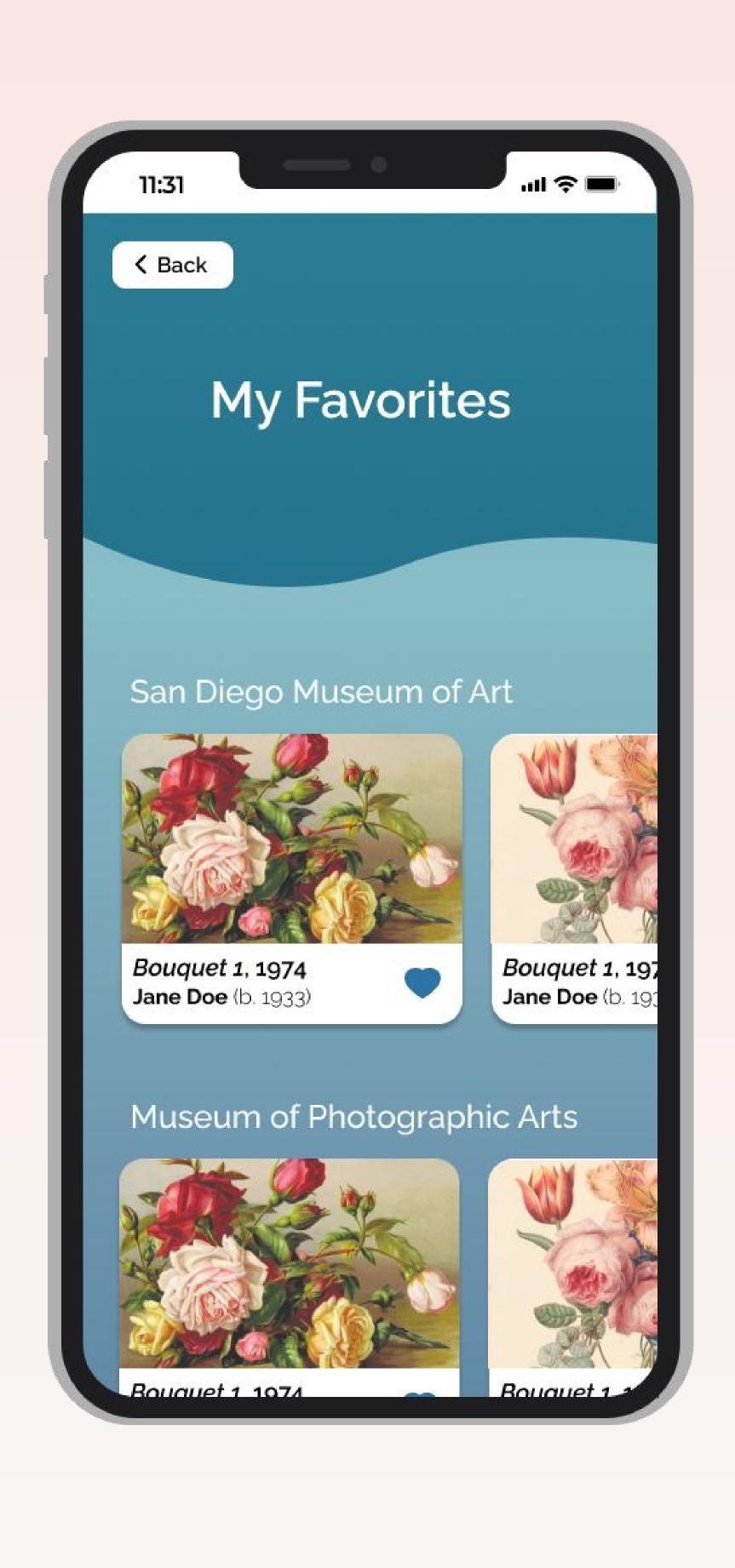
Add a note

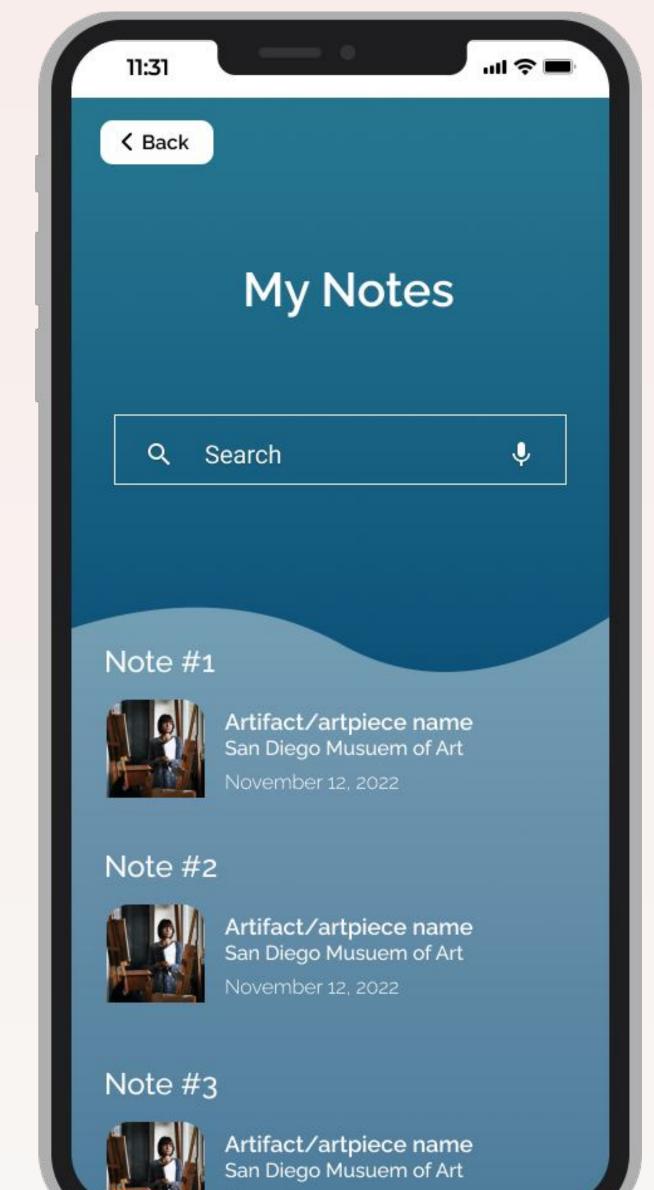
Transcript

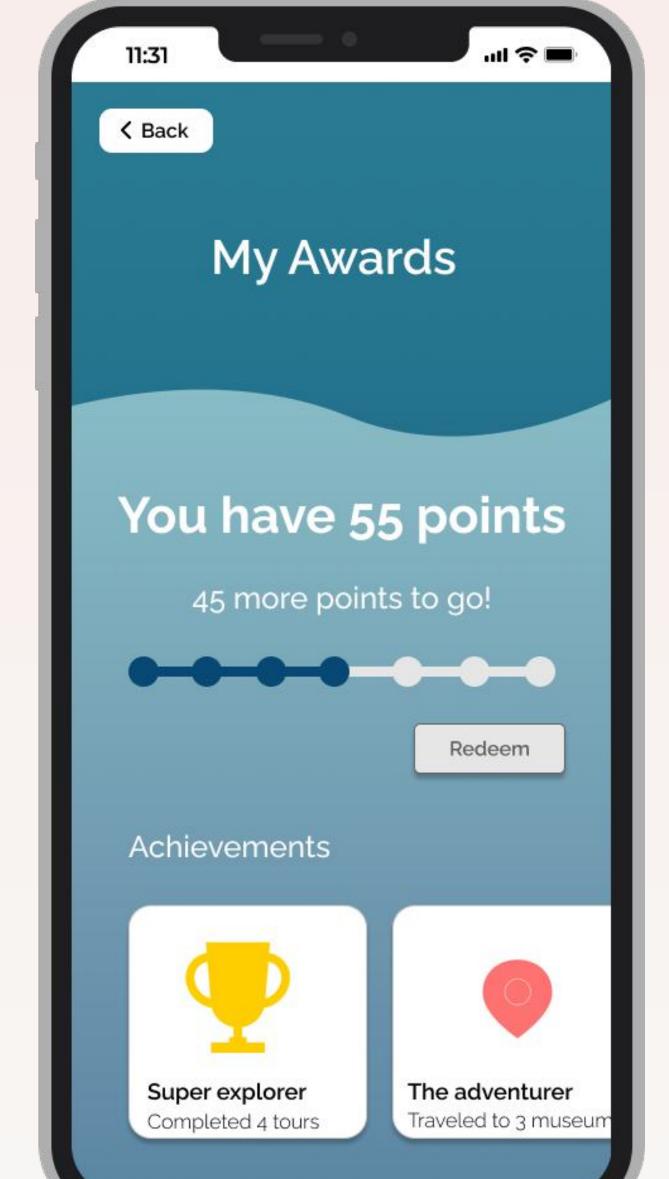
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Full transcript

Personalized Features











Account Settings



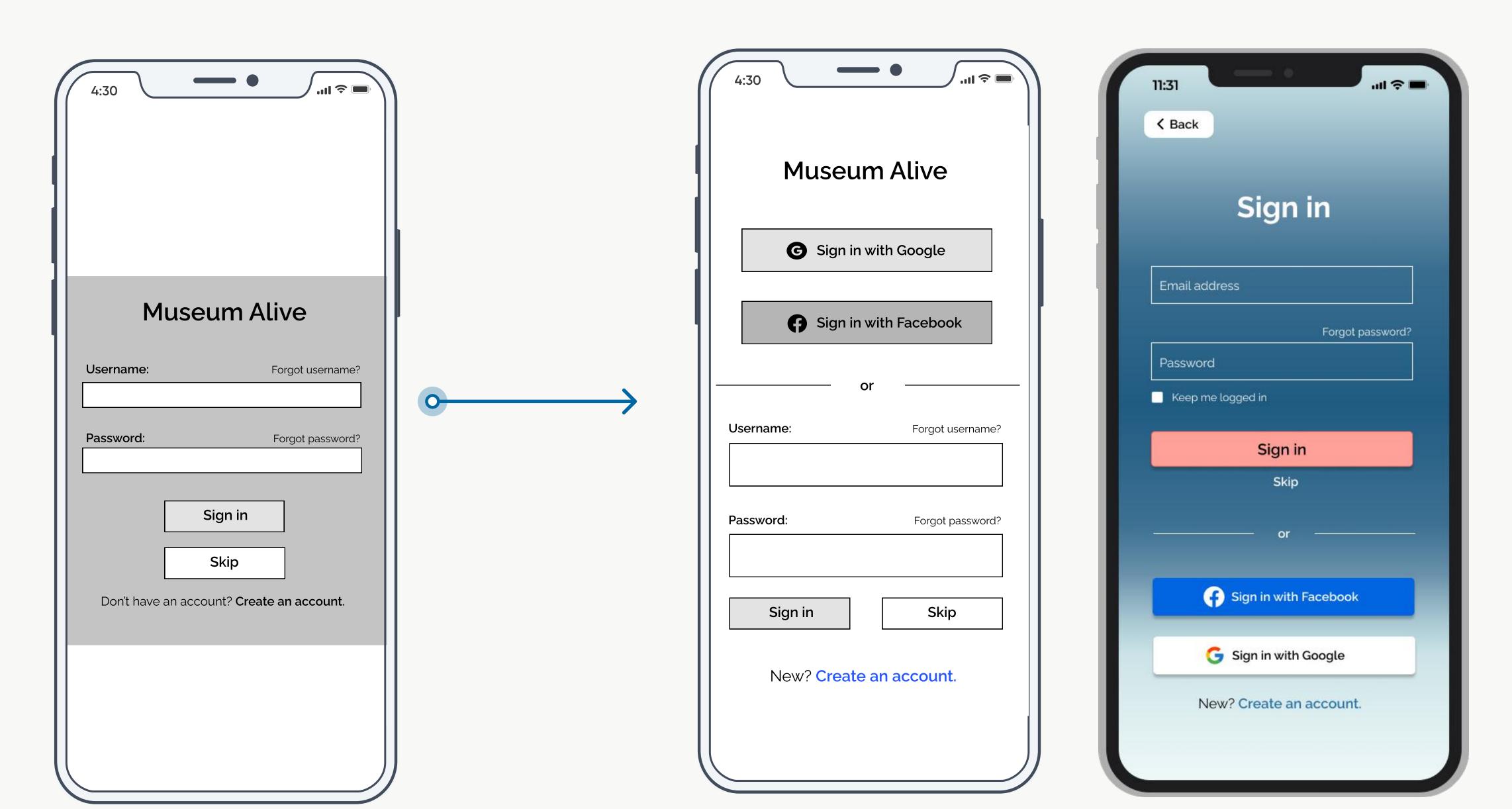
Usability Testings

Key Insights

- The users who selected "no thanks" may have not known the benefits of enabling their location.
- Although the sign in navigation was easy for most users, the "create account" text location may have to be more clear/ easier to find.
- The "add a note" feature may have to have to be more visible or moved to a different location so that more users are able to find it.
- Even though most participants were able to easily find the "end tour" button, perhaps there should be multiple ways to the end the tour and/or the button should be easier to find.

Before usability study

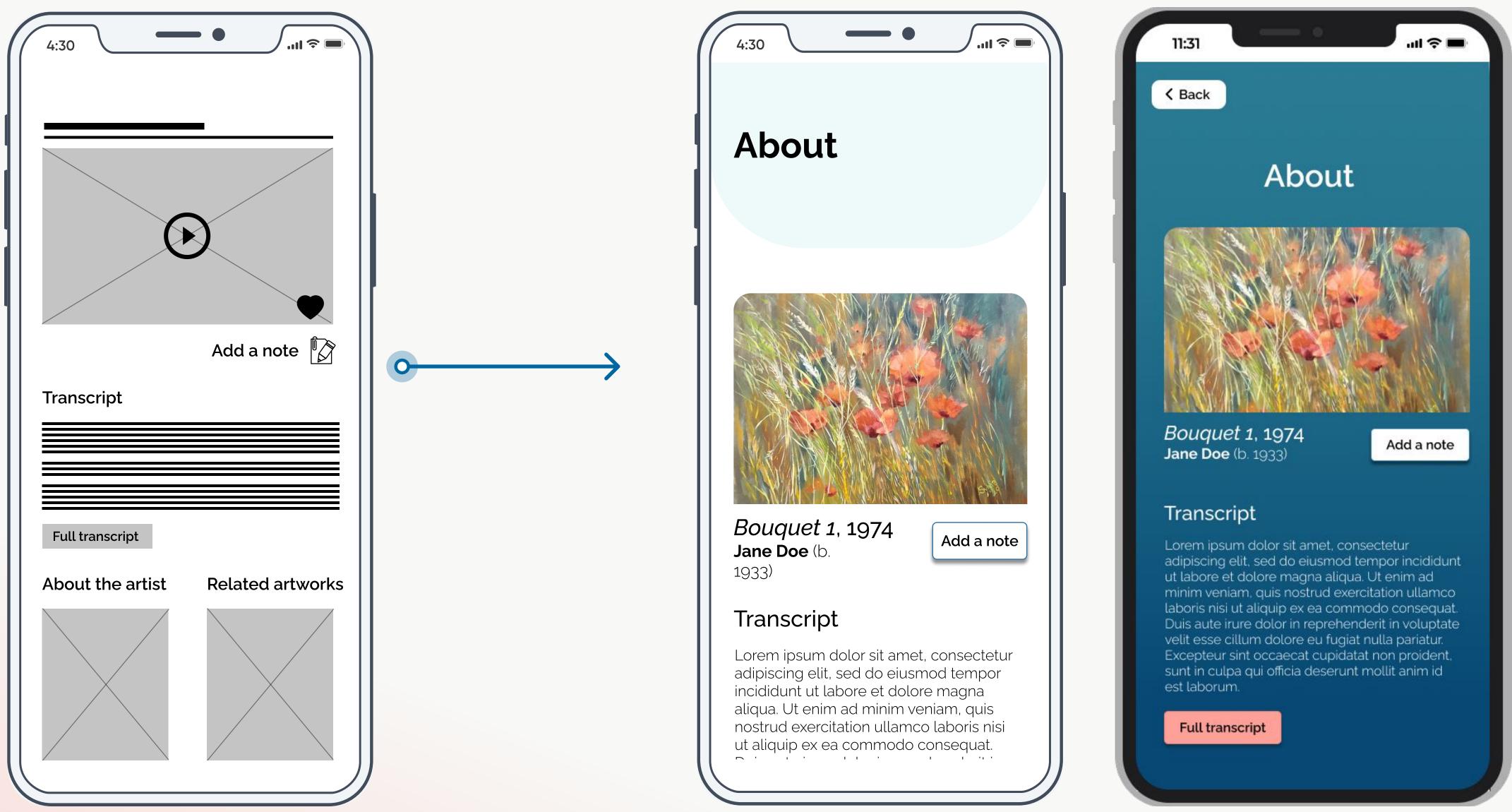
After usability study



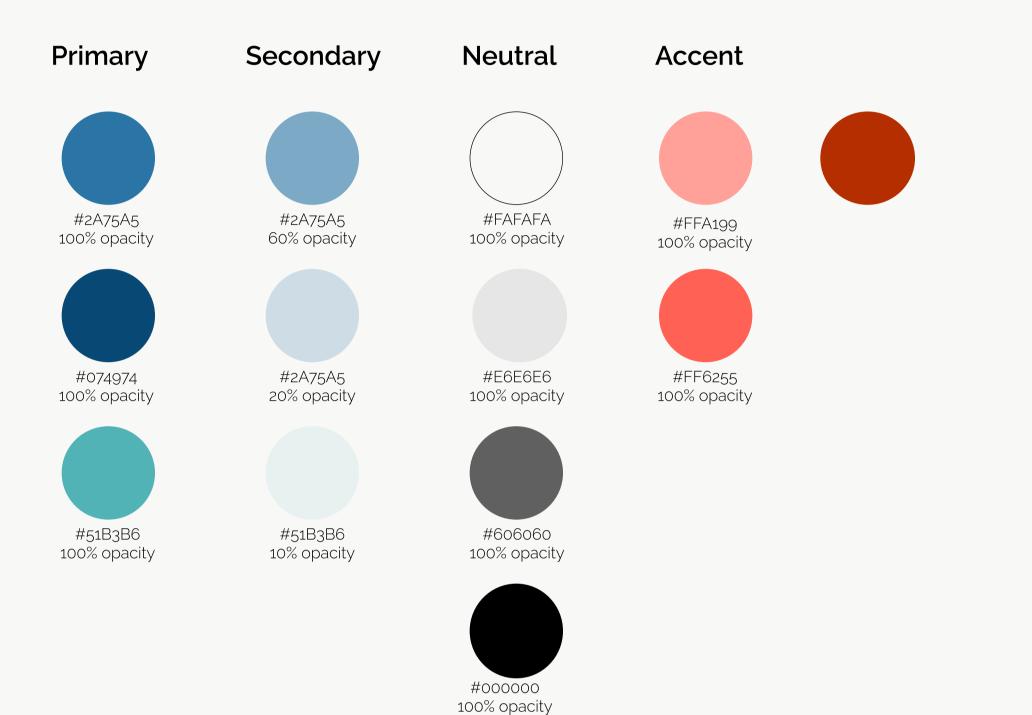
Before usability study

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After usability study



Colour Palette



Typefaces

Typeface: Raleway

Title, Bold, 38 px

Heading 1, Medium, 30 px

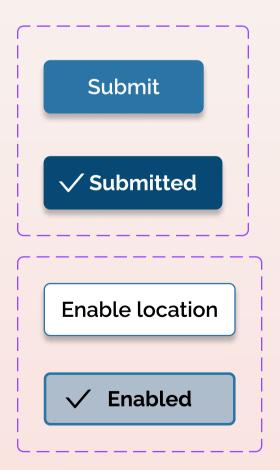
Heading 2, Medium, 24 px

Heading 3, SemiBold, 18 px

Heading 4, Regular, 16 px

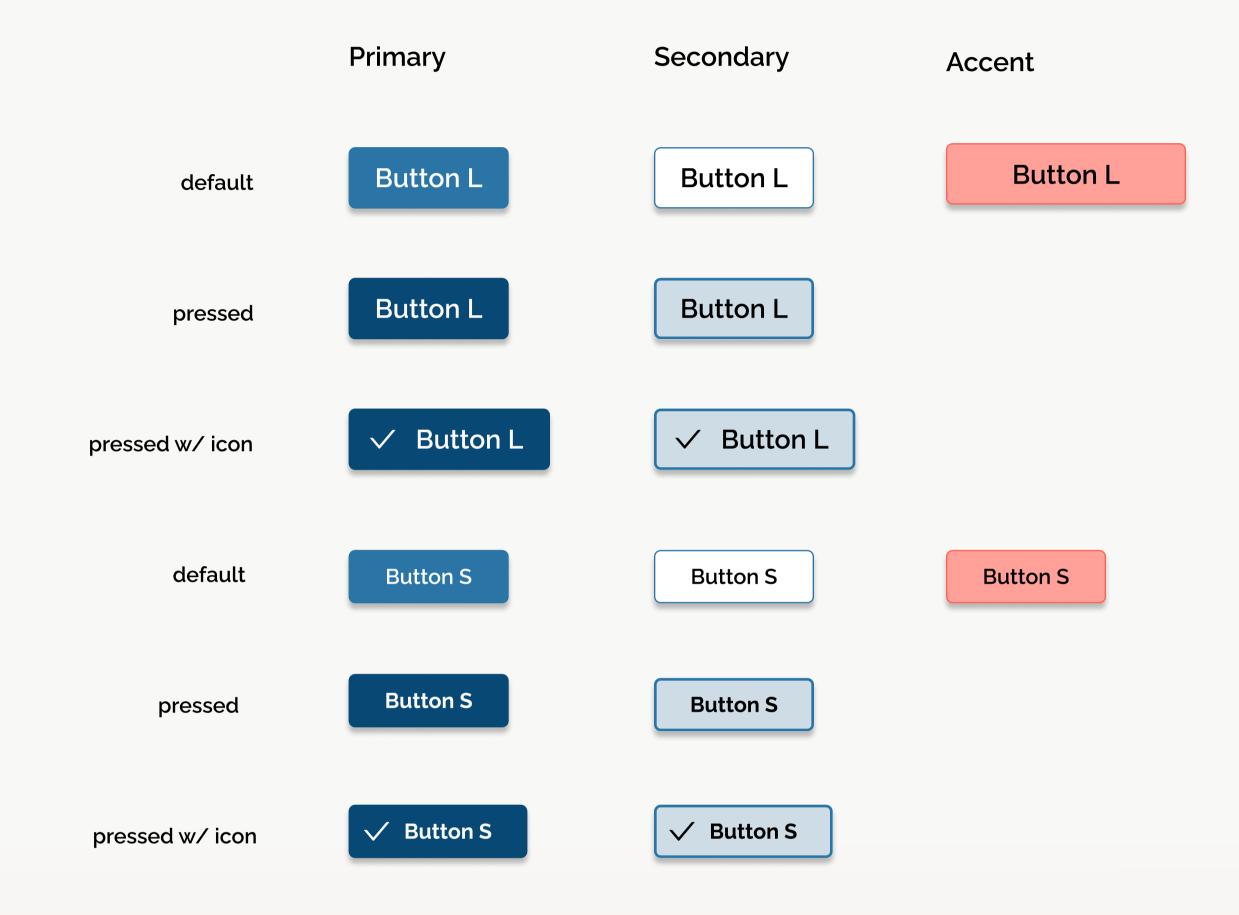
Body text, Light, 16 px

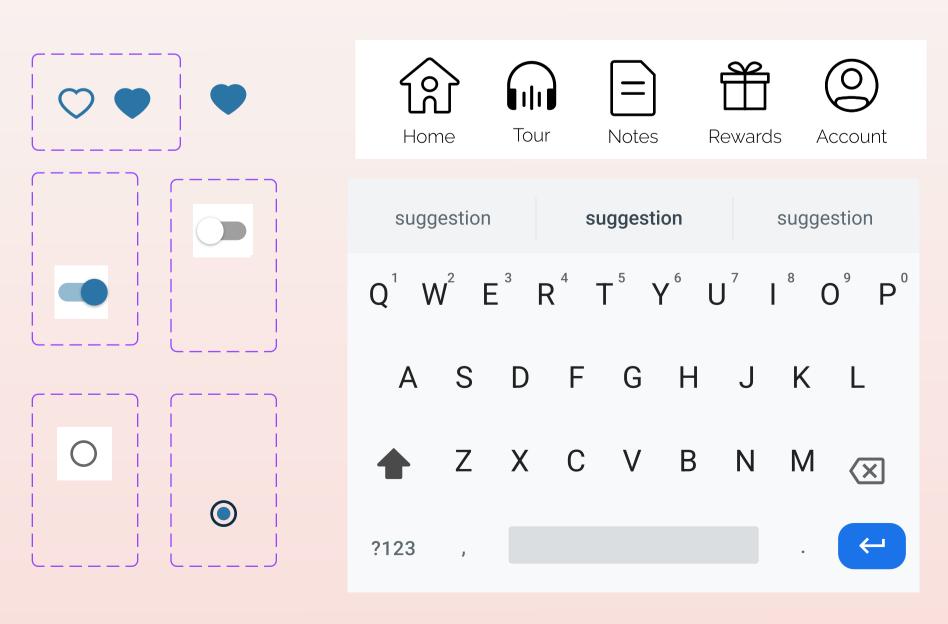
Key Components



Style Guide

Button Styles







Accessibility Considerations



Provided access to users who are vision impaired by adding alt text to images for screen readers.

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Used icons to help make the navigation easier.



Provided access to users who are hearing impaired by including captions and full transcripts of the tour.

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Takeaways and Next Steps



Takeaways

While designing the Museum Alive app, I learned that the first ideas for the app are only the beginning of the process. Usability studies and peer feedback influenced each iteration of the app's designs.

Impact

The app makes museum visitors really feel like they are engaged in the audio tour app and are able to continue researching even after their tour(s).



Next Steps

Conduct another round of usability studies to validate whether the pain points users experienced have been effectively addressed.

Conduct more user research to determine any new areas of need.

Let's Connect

Thank you for your time reviewing my work on the Museum Alive app! If you'd like to see more or get in touch, my contact information is provided below.



