

/leet tne team



EMILY HUANG COMPUTER SCIENCE, '22



COMPUTER SCIENCE, '24



JARED POBLETE SYMBOLIC SYSTEMS, '23



FRANKIE SPERKA PRODUCT DESIGN, '24



Why isn't this the norm?

Why isn't this the norm?

We want to bridge that gap

What's out there





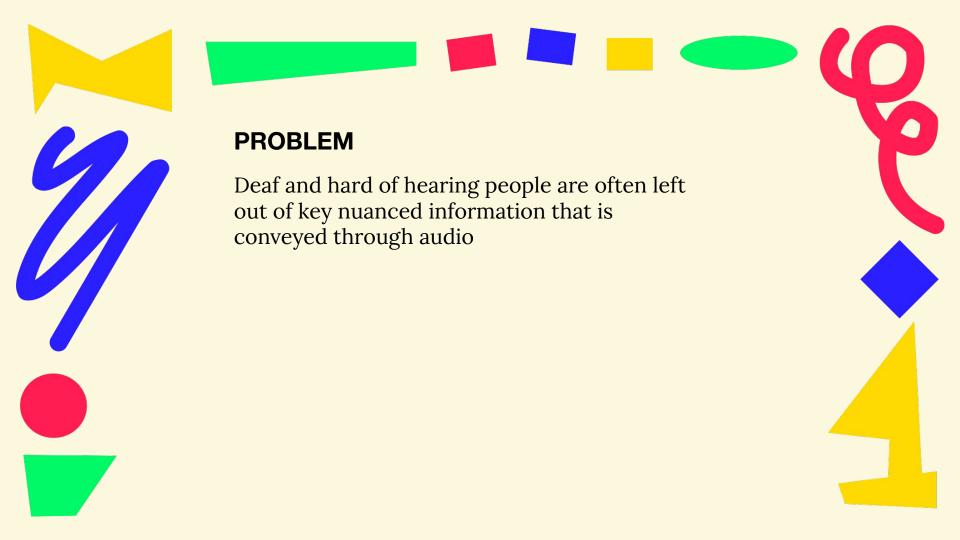
(There isn't much else.)

Outline

Who are we?
Where have we been?
Where are we now?
What comes next?

(WHO ARE WE?)





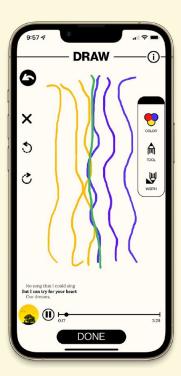


Reimagining audiofor everyone





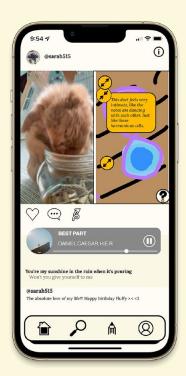


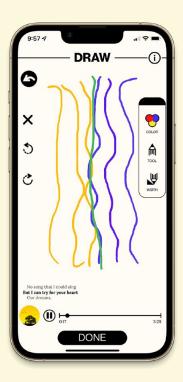






A **social media app** dedicated to creating and viewing **alternative audio interpretations**









(WHERE HAVE WE BEEN?)



Needfinding



"Hearing is something that is difficult for me, visual is something that is easy."

The participant enjoys attending her children's choir concerts

HOW MIGHT WE?

...convey nuanced descriptions in a non-auditory way to include the Deaf / HoH community in pop culture?

Early Testing

A unique audio interpretation can be effective for conveying the nuance of information and meaning in content



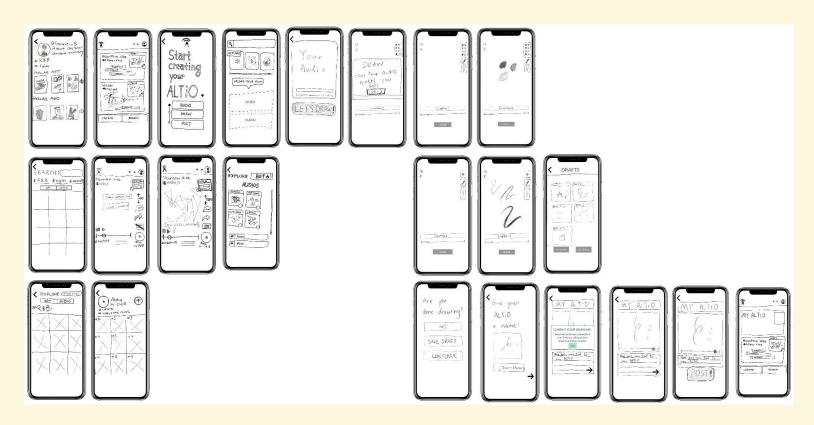




Experience prototype results of drawing "Idontwannabeyouanymore" by Billie Eilish

"She got more out of it than I even realized was there" - Participant 015

Low-Fi Prototype



Implementation

EXPO, REACT-NATIVE



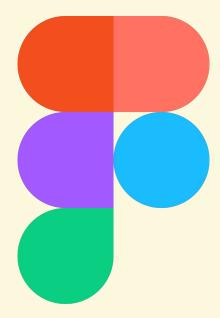








FIGMA



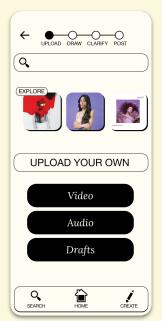
FIREBASE



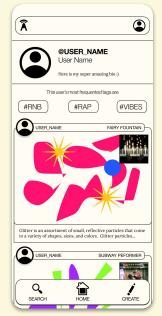
Hi-Fi Prototype V1











Usability Study

ONBOARDING NEEDS IMPROVEMENT

"It doesn't tell me what my audience can expect to see"

Confused on first read, but after rereading participant understood

ACCOUNT CREATION / USER PREFERENCES

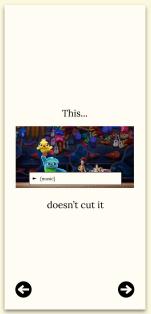
Avoid feelings of exclusion for Deaf and HoH users by asking for preferences of content type and audio preferences early on

INTRODUCED ASL / CREATIVE CC SUPPORT

FLEXIBILITY IN POST PROCESS

Hi-Fi Prototype V2





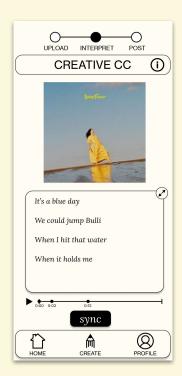






Hi-Fi Prototype V2







Field Testing

THE ALTIO LEARNING CURVE

Learning our way toward the most concise and didactic onboarding sequence.

ADDING FLEXIBILITY IN CREATE FLOW (CANCEL, EDIT, BACK)

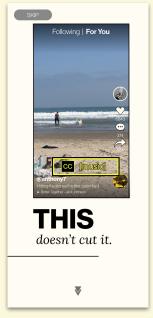
IMPROVED SEARCH USABILITY AND BACKEND IMPLEMENTATION

IMPROVED ASL / CREATIVE CC SUPPORT

CLARITY IN POST PROCESS

Hi-Fi Prototype V3



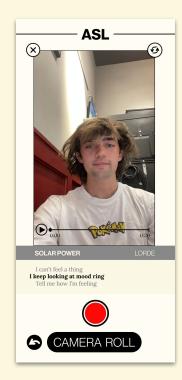








Hi-Fi Prototype V3





	ALPHA C418		
] 	o:00 SY	NC -	0:20
► Typ	e your lyrics he	re	
Туре у	our lyrics here!		
Туре у	our lyrics here!		
Туре у	our lyrics here!		
Туре у	our lyrics here!		
Туре у	our lyrics here!		
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(WHERE ARE WE NOW?)



Task 1 - GETTING STARTED



CREATE your individual profile

EXPLORE and learn about the app

Task 2 - SEE ALTIO



SCROLL through a robust home feed populated by users you're following and suggested content

VIEW alternative interpretations from users including drawings, creative closed captioning, and ASL

understand users by revealing their creative clarifications

Task 3 - CREATE ALTIO



CREATE alternative interpretations based on your listening experience

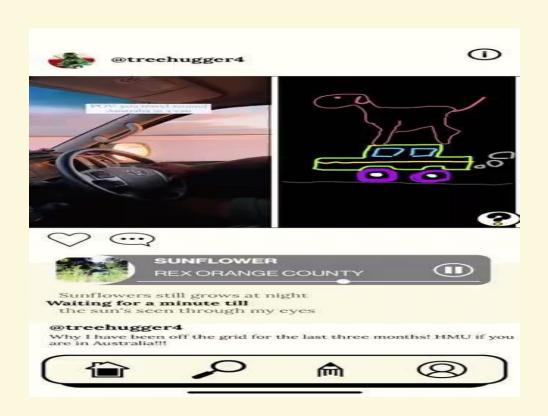
DRAW what you hear

TRANSLATE audio into ASL

WRITE creative closed captioning like poetry

CLARIFY your post with annotations for other people to see

Task 4 - EXPLORE ALTIO



VIEW other users posts and scroll through interpretations

SEARCH for users, tags, music, and posts

TOGGLE between alternative interpretations

INTERACT with other users' profiles

(WHAT COMES NEXT?)



Unimplemented

ALTERNATE ONBOARDING SEQUENCE

Considering asking about how users identify to create a more curated experience for a deaf or HoH user

This was a late add and new realization

Participant 007: "Confusing, there was a lot of verbiage, initially didn't know it was for accessibility for me"

SPOTIFY x MUSIXMATCH

Having users own music in our app

We are in contact with musixmatch to get captions for music but they have been unresponsive and we do not want to include audio that does not have captions

