CS 147 Assignment #1 Needfinding

Accessible Design Studio

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Team Members



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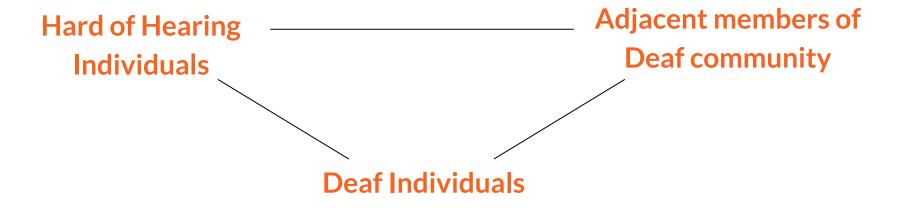
Sophomore in Product Design

Domain

The Deaf Community

Accessible Design for Different Abilities

Needfinding Methodology Introduction



Needfinding Methodology We Asked About

General

- What is your relation to the Deaf community?
- Tell me about a time where you did not feel as included in a space?

Mobile Apps / Technology:

- What apps do you use on a day-to-day basis?
- Tell me about your experience using mobile apps? Is there anything you like / dislike?

Entertainment

- What types of media do you particularly enjoy?
- Tell me about a time when you experienced art or entertainment?

Pandemic

- How has the ongoing pandemic affected the Deaf community?
- Have you found anything that has helped with this change?

Johnny



"Covid has just amplified problems that already existed."

a college graduate

born deaf who now uses two cochlear implants

Zoom interview, 40 minutes

Michelle



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

audiologist & mother of 3

born hard of hearing, now uses two cochlear implants

Zoom interview, 30 minutes

Catherine



"The deaf community is very very close."

university ASL professor

born into a 3 generation deaf household

Zoom interview, 60 minutes

Catherine



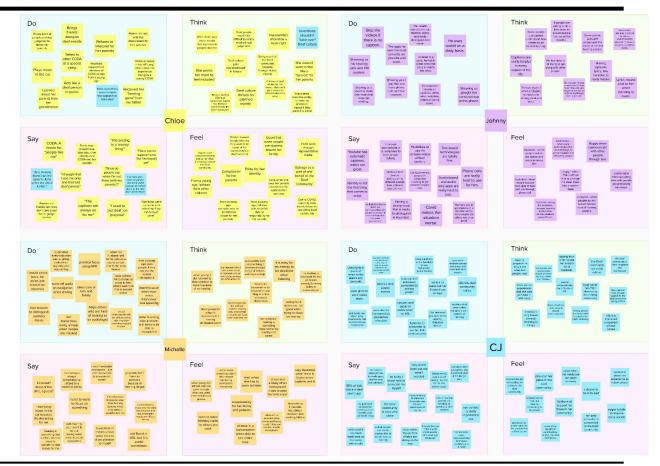
"Now I feel proud about my identity as a CODA."

high schooler & daughter

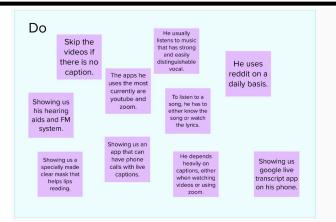
child of deaf adults (CODA)

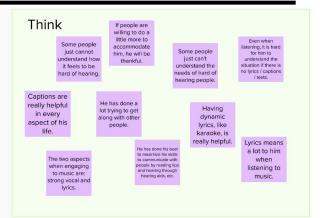
Zoom interview, 50 minutes

AnalysisEmpathy Maps



AnalysisEmpathy Map: Johnny



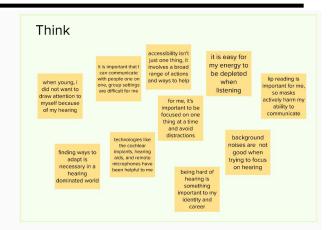




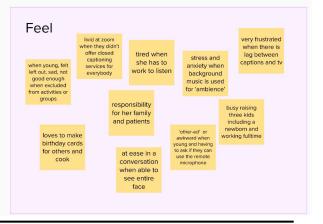


Analysis Empathy Map: Michelle

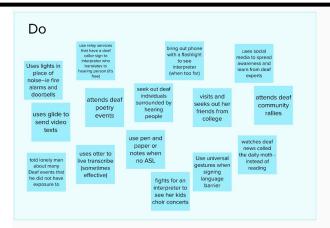


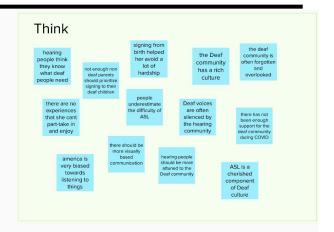


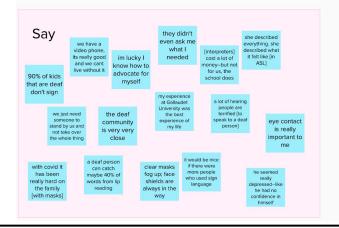


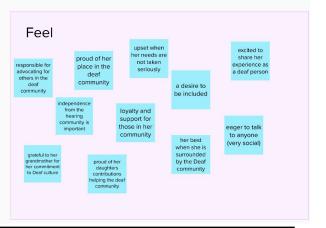


AnalysisEmpathy Map:

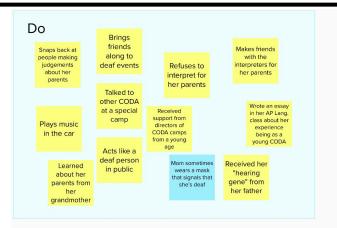




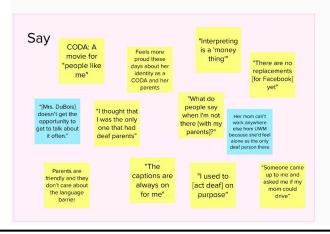


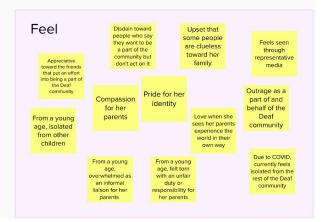


AnalysisEmpathy Map: Chloe









Tensions, Contradictions, Surprises

Tensions

Use universal gestures when signing language barrier

[interpreters] cost a lot of money--but not for us, the school does

During pandemic, people are completely unwilling to get close to anyone else.

"Someone came up to me and asked me if my mom could drive"

Contradictions

She wants her mom to feel included → Refuses to interpret for her parents

Surprises

90% of kids that are deaf don't sign

America is very biased towards listening to things

people have run away from her in fear

Tensions, Contradictions, Surprises (contin.)

Tensions

stress and anxiety when background music is used for 'ambience'

very frustrated when there is lag between captions and tv

"Interpreting is a 'money thing'"

Contradictions

our art has no noise or music → attends kids choir concerts

Surprises

"I used to [act deaf] on purpose"

Skip the videos if there is no caption.



"In second grade, we had show and tell, but... they **didn't provide an interpreter** for my mom, so she had to use *Guesstures*."

Insight

 Hiring interpreters can be difficult for a number of reasons including financial constraints and ignorance.

Need

A guaranteed professional interpreter should be a right.



"The last [Deaf event] I went to was in 2019, right before COVID."

Insight

 Deaf events are an integral part of fostering community, but COVID has hindered that.

Need

A distanced way to support community

"If there's a **video without captions**, I'll just skip it. Sometimes I'll try to go to the comments and piece things together but it's usually **not worth it**.

Insight

A lot of content and speech remains uncaptioned and inaccessible.

Need

Captioning should be more ubiquitous.





Insight

 Masks cover up part of the face, which hinders deaf individuals in ways such as stifling the emoting that is integral to conveying ASL or lipreading.

Need

 There needs to be a way to support effective communication while maintaining health & safety.

AnalysisConclusions

Inferences & Questions

- The Deaf community is strong and heavily interconnected
 - How do they maintain this connectedness?
 - Are there ways to support this?
- Independence, inclusion, and representation seem to be throughlines

Summary

- We talked to lots of people with different experiences with deafness
- 2. We learned a lot about their culture, challenges, and connectedness
- 3. We are excited to investigate how to best support them