

Polytone
By ATeam

Overview

- Mission Statement
- Selected interface
- Low-fi prototype
- Task Flows
- Method Results
- UI Changes

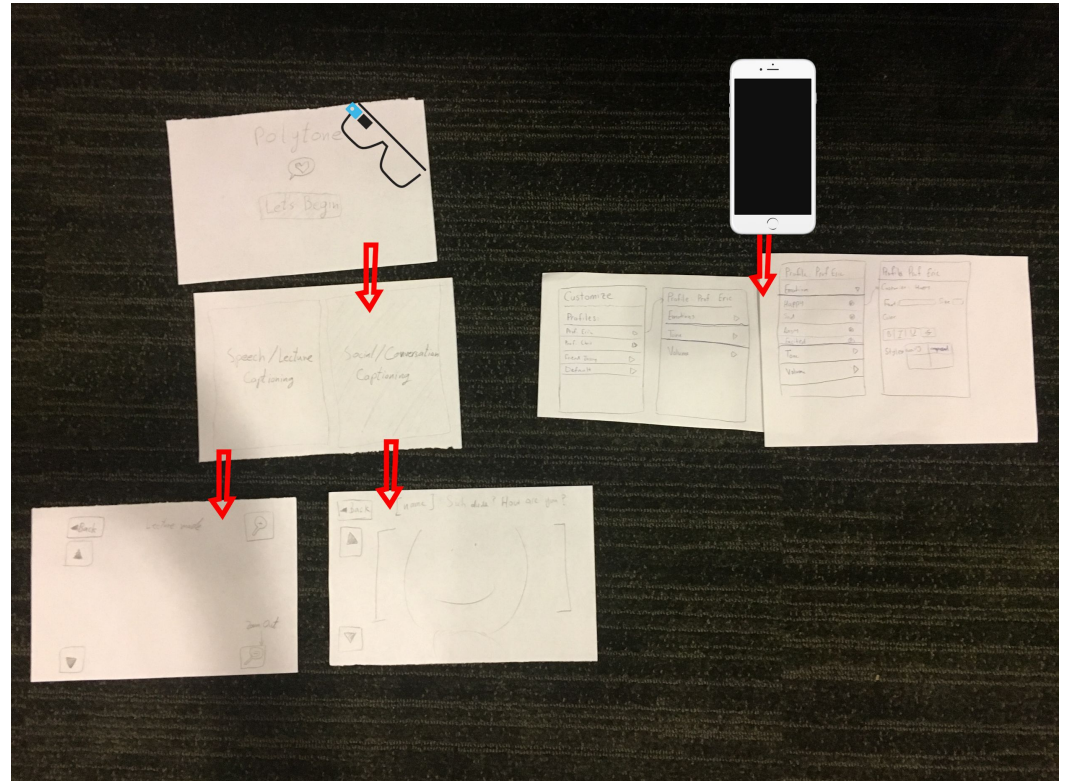
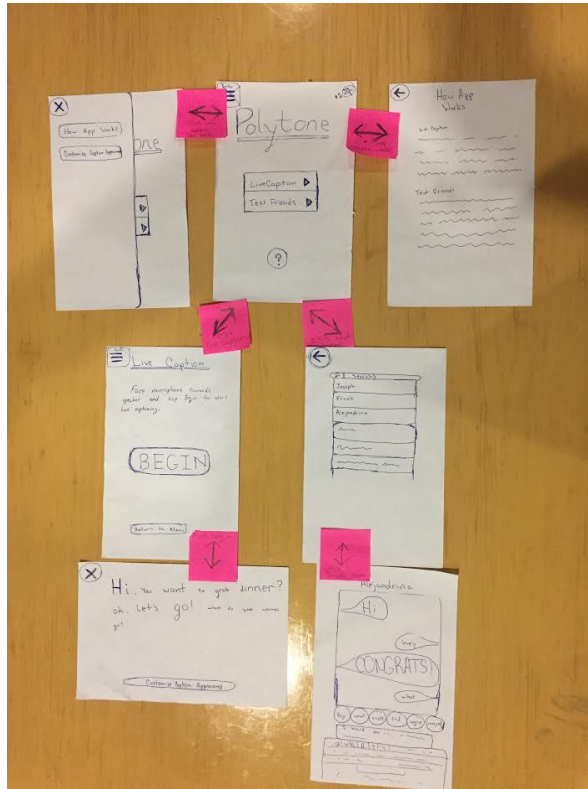


Mission Statement

“Your **voice** is more than just words”

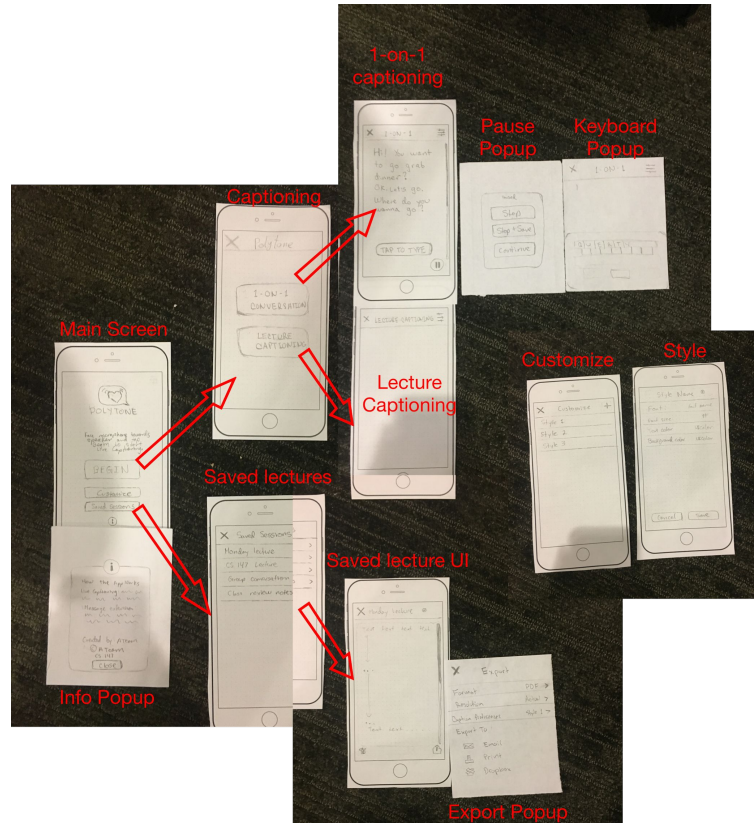


Selected Interface



	Pros	Cons
Prototype 1	<ul style="list-style-type: none">- Minimal UI- Augments Reality	<ul style="list-style-type: none">- Stands out- Not widely available- Needs complementary UI on mobile
Prototype 2	<ul style="list-style-type: none">- Accessible extension- Very easy to learn and use with its familiar mobile UI- More subtle as an assistive technology in class	<ul style="list-style-type: none">- Doesn't greatly utilize augmented reality- Complicated integration of different forms of verbal communication all in one form of text.

Prototype



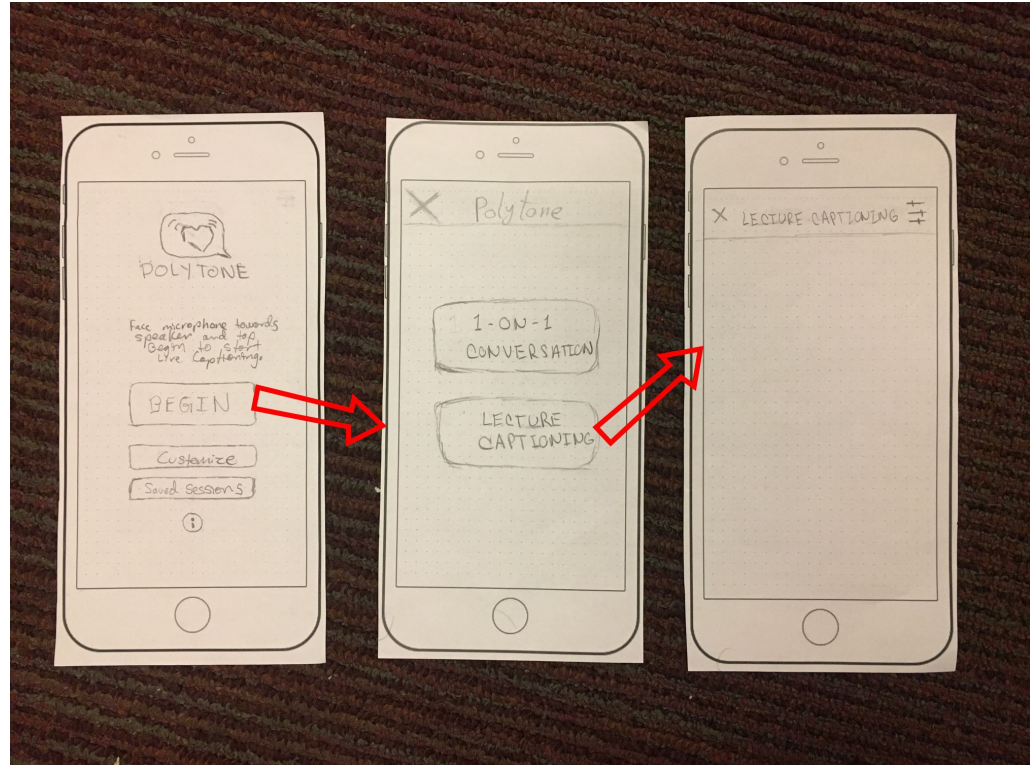
Task Flows



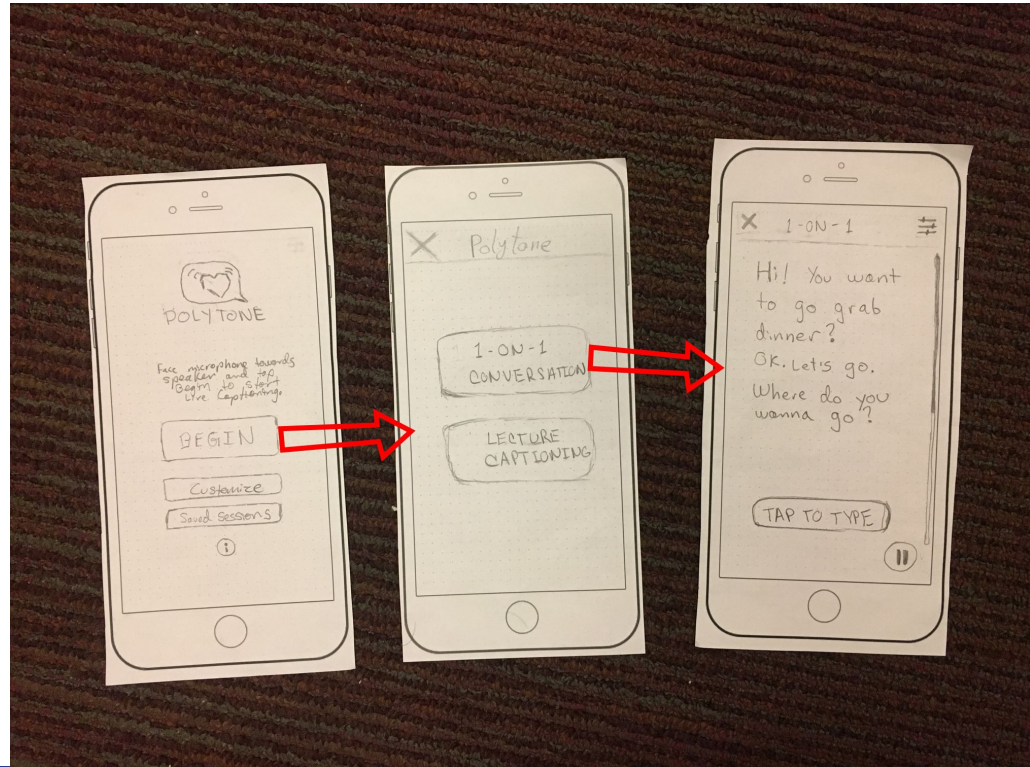
Tasks

- **As a deaf student, I want to be able to visually understand tone, style, and volume of a lecture - simple.**
- **I want to communicate with deaf people in 1-on-1 chats without the need to learn sign language - medium.**
- **I want text to reflect my emotion and deliver it to other people so that they don't necessarily need sound - complex.**
- ~~As a teacher, I want to be able to be able to easily add emotional meta-data that can be displayed visually to my verbal communication - complex.~~

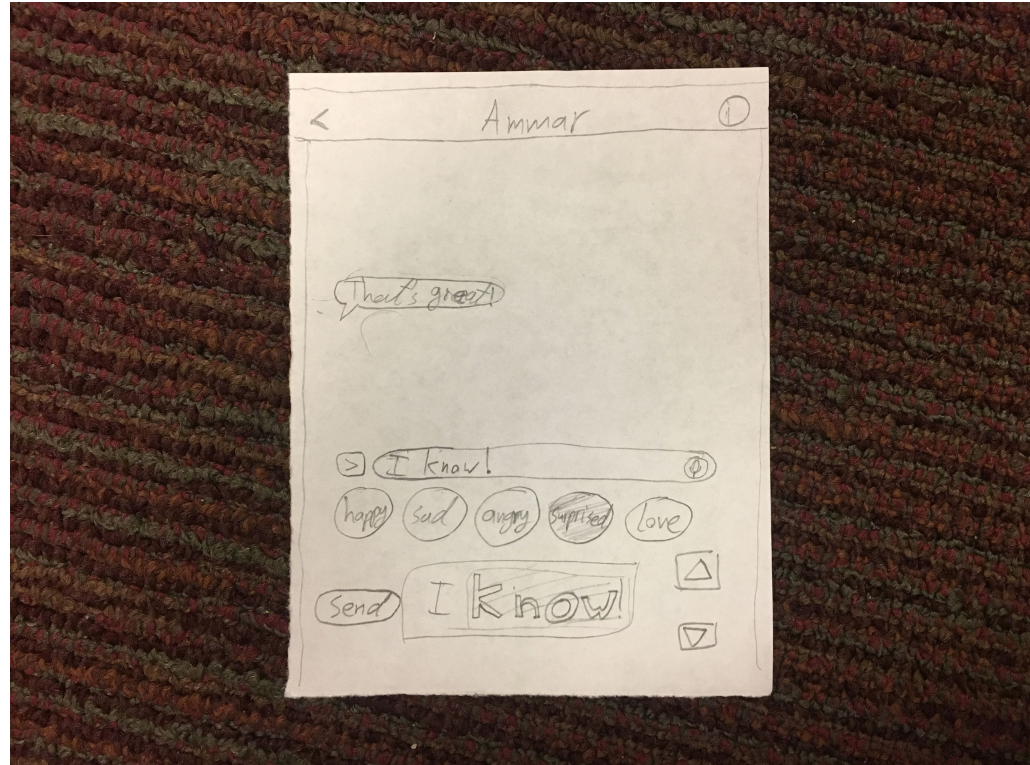
Task #1: As a deaf student, I want to be able to visually understand tone, style, and volume of a lecture - simple



Task #2: I want to communicate with deaf people in 1-on-1 chats without the need to learn sign language - medium.



Task #3: I want text to reflect my emotion and deliver it to other people so that they don't necessarily need sound - complex.

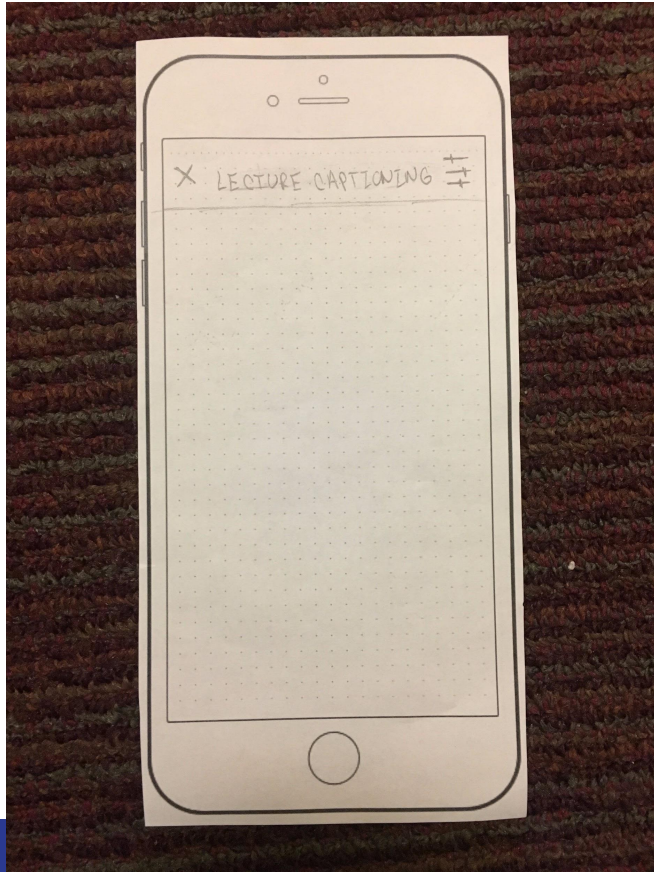


Experimental Method

- a. Participants
- b. Environment
- c. Tasks
- d. Procedure
- e. Test Measures

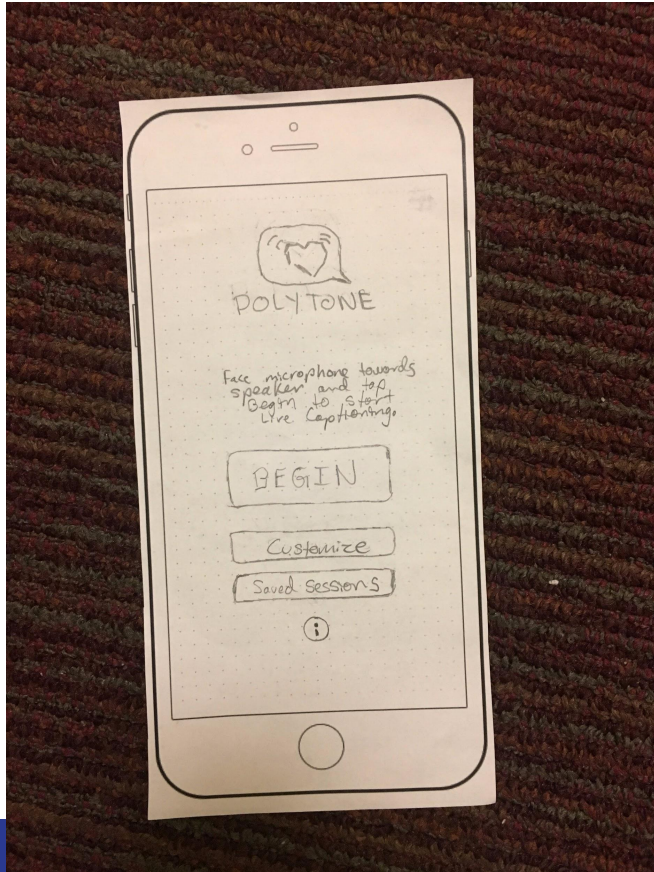


Experimental Results



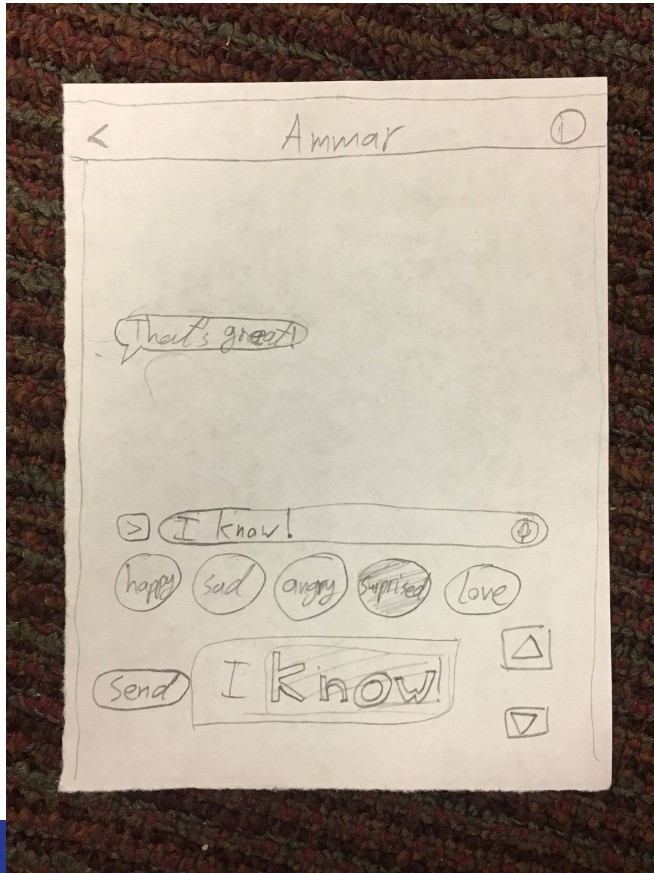
Needed to pause transcribing lectures without exiting

Experimental Results



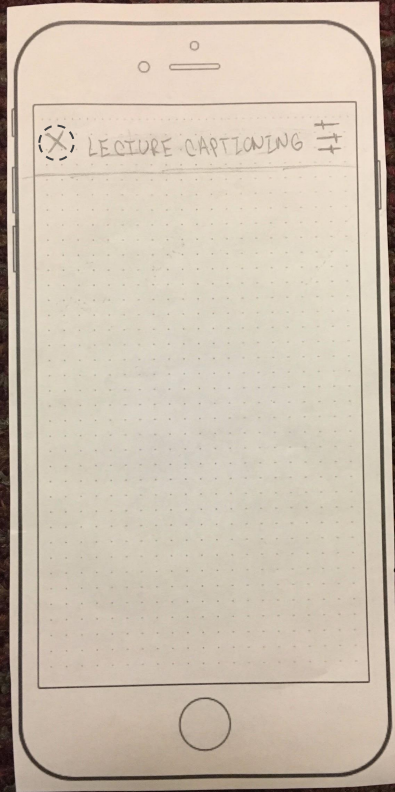
Liked the cleanness, clearness and the easy navigation

Experimental Results



Likes the shortcuts that the extension provides

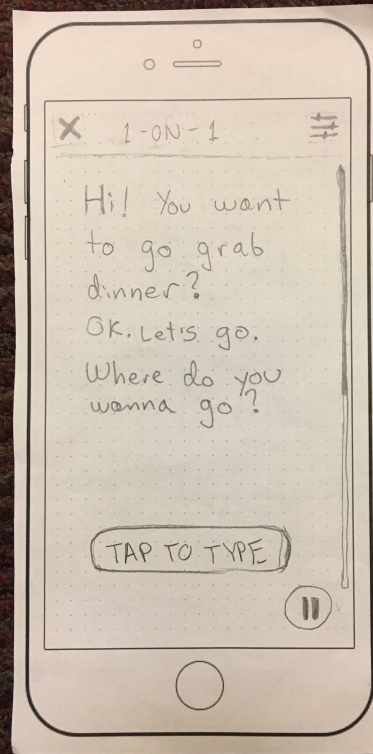
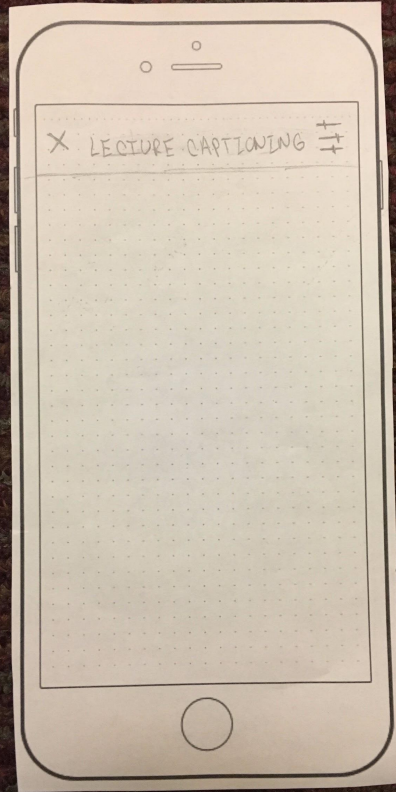
Experimental Results



Was concerned about mistakenly hitting the exit button, and deleting everything.

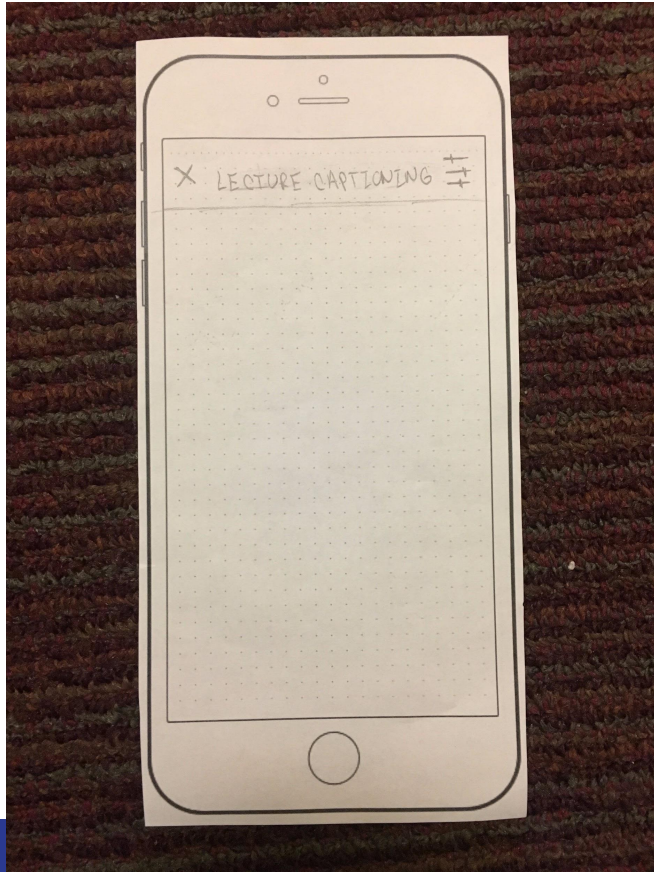
Preferred text populating and scrolling instead of swapping text

Experimental Results



Not sure if the
division is necessary

Experimental Results



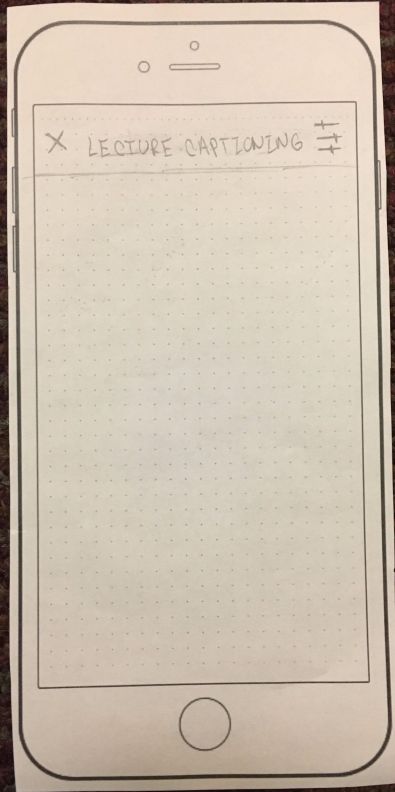
Was confused with the fact that you have to navigate all the way back to share a lecture rather than sharing it directly here

Experimental Results

Expressed concerns with how accurate current speech recognition software would be in correctly and accurately recognizing what is said.

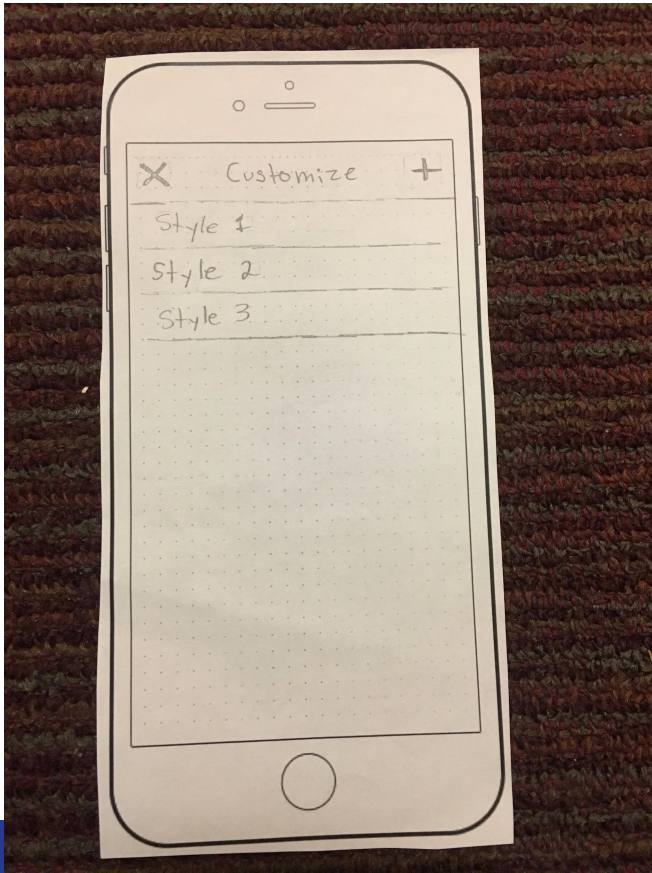


UI Changes



- Add a pause button to lecture captioning
- Add a share button to lecture captioning
- Add a pop-up before exiting

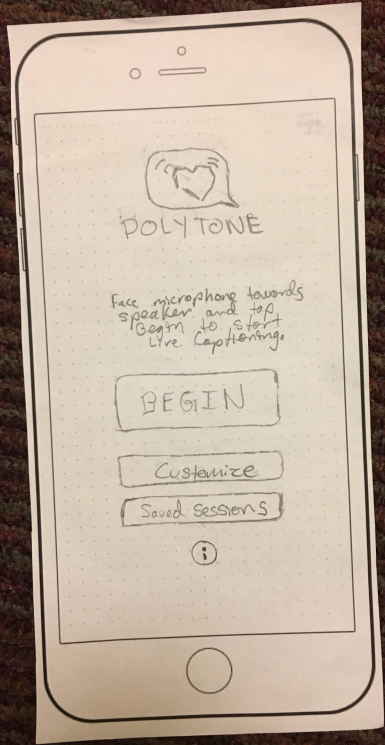
UI Changes



Enabling deleting saved styles simply by sliding

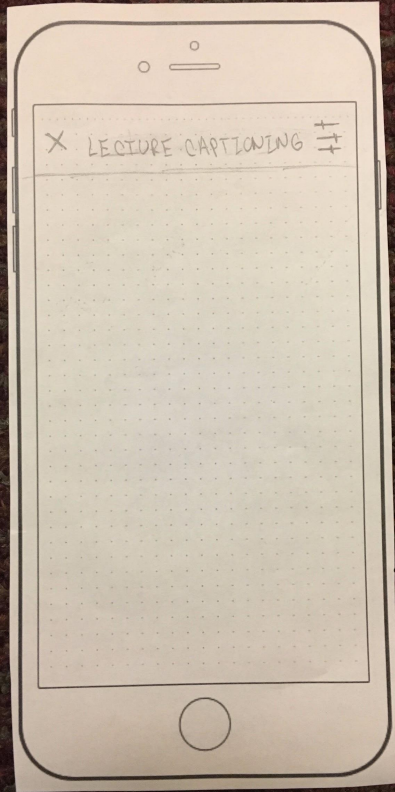


UI Changes



Asking the user to set up his default style right after tutorial instead of having the same default for the every user

UI Changes



The ability to scroll back through text that has been already transcribed

Summary

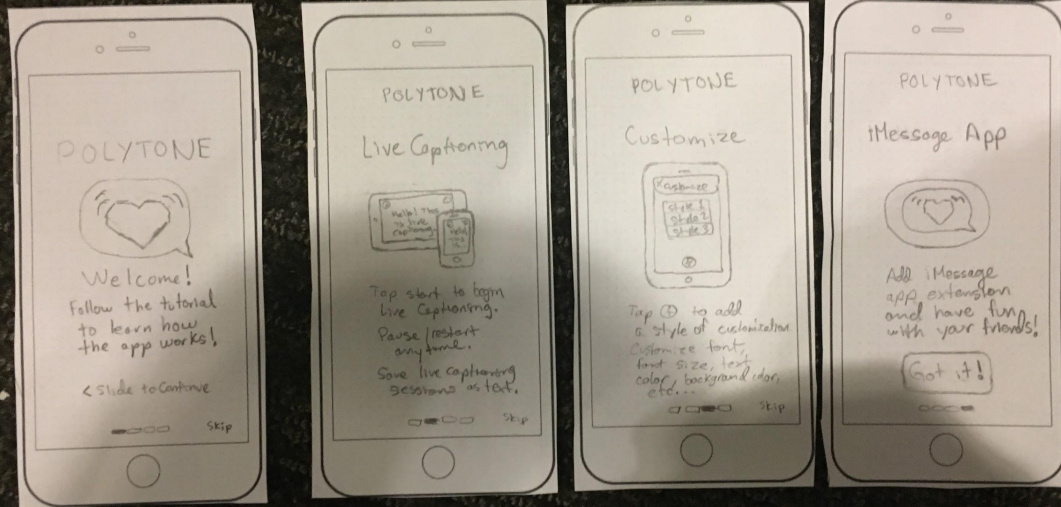


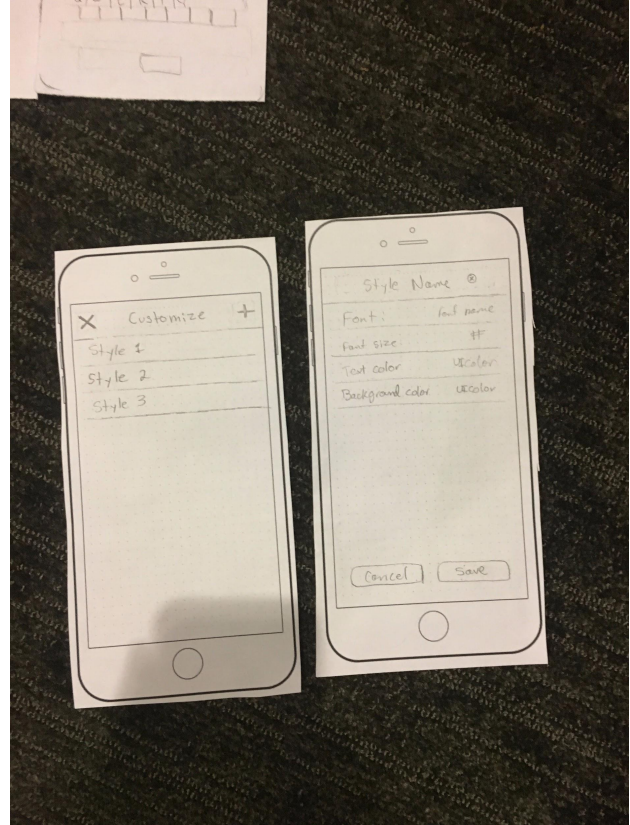
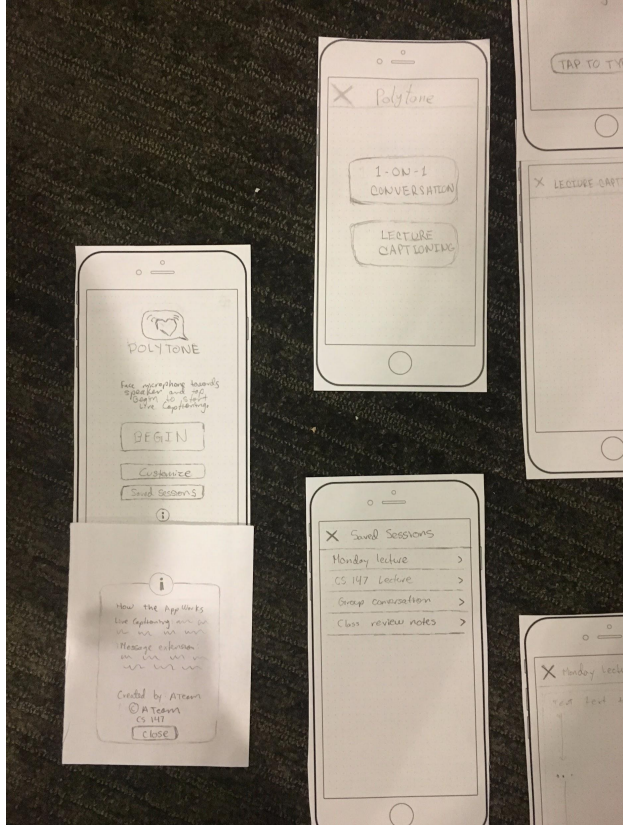
The background is a solid pink color. In the top right corner, there is a decorative pattern of overlapping squares and triangles in various shades of pink and magenta, creating a geometric, stepped effect.

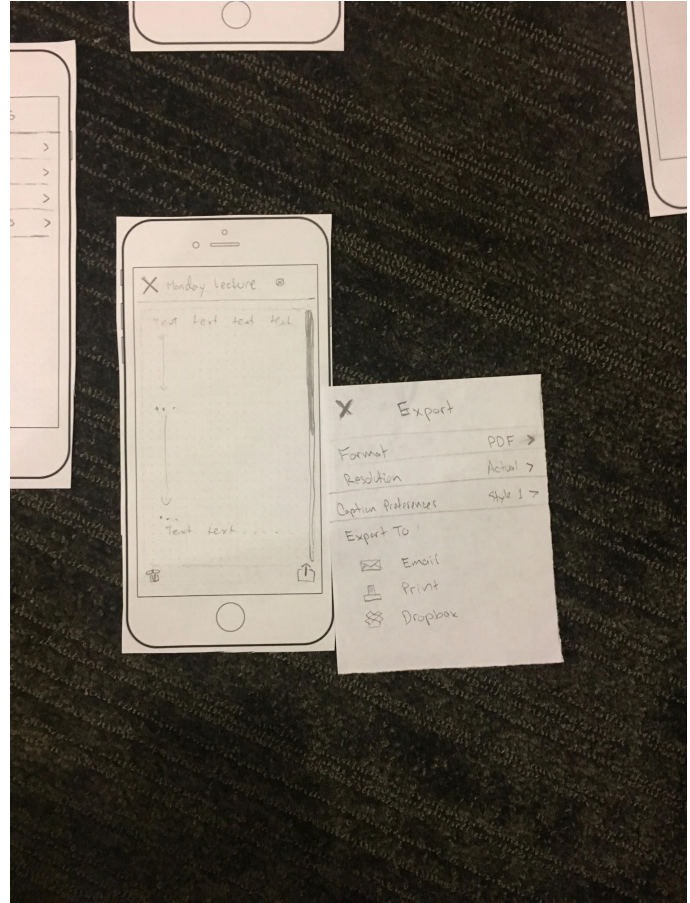
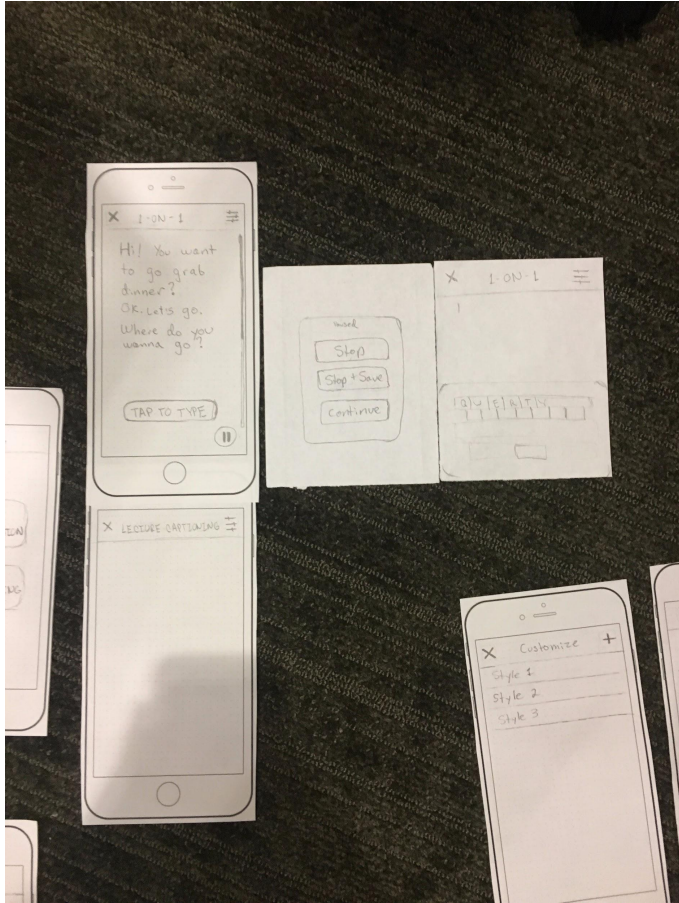
Thank you

Deleted Slides

Tutorial







Workflow

