CS 147

keynotes

Med-Fi Prototyping

Roadmap

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02 Values in Design

03 Tasks

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Our Ensemble!

Will Fang

CS AI ‘25

French Horn!

Julia Hernandez

SymSys HCI + Soc ‘24

Viola!

Emily Macias

CS HCI ‘25

Guitar!

Aditi Tuli

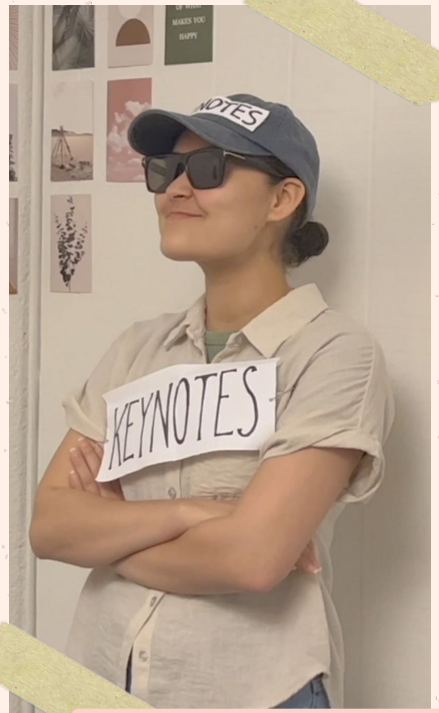
SymSys Neuroscience ‘25

Piano!

keynotes

where feedback strikes a chord

What is keynotes?



pssst...watch our concept video!

Our Value Proposition:

Creates a platform where **musicians can connect** and obtain **crowdsourced and one-on-one feedback**

From...

7

Needfinding Interviews

9

POVs

47

HMWs

70

Solution Ideas

7

EP Testers

The Problem

Problem:

Musicians **struggle** to find reliable sources of **feedback**, which impacts their **confidence** and **self-perception**

The Problem + Solution

Problem:

Musicians **struggle** to find reliable sources of **feedback**, which impacts their **confidence** and **self-perception**

Solution:

A platform where musicians can **connect** and obtain **one-on-one** and **crowdsourced feedback**

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Value 1: Protecting Users

The value tension:
Free speech vs. protecting users, especially marginalized or vulnerable users

Design features to address:

- Structuring feedback inputs to include positive and negative comments
- Community-enforced moderation: users can report other users
- Platform-enforced moderation: automatic flags/filters for harmful language

Value 2: Outreach and Accessibility

The value tension:
Ease of access online vs. equity (some users may not have equipment)

Design features to address:

Though lack of access is a systemic issue, we can try…

- Fostering partnerships with schools
- Creating community forums for sharing resources
- Making an information sphere for finding practice rooms and studios

Value 2: Cultural Understanding

The value tension:
Maximizing users' reach vs. protecting against cultural alienation, discrimination

Design features to address:

- Adding context to uploaded music
- Giving users the option to limit who listens to their music
- Allowing users to subscribe to a group of people who create/listen to a certain type of music, live in a certain area, or are part of a certain cultural group
- Establishing community guidelines around giving feedback

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4 Task Flows

Simple

Upload a new track

View feedback on your track

simplified from A5 task!

Moderate

Find a **new musician** on the app and **give** them **feedback**

Complex

Change your preferences for which musicians can **give you feedback**

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Usability Goals

We want **keynotes** to be...

Robust

Minimal error rates
Key measurement: errors per task

Efficient

Quick task completion
Key measurement: time taken per task

Usability Goal Progress

Robust:
clarify function of elements

- ✓ Renamed bottom tabs
- ✓ Added “Upload Track” to button for uploading media
- ✓ Changed “Connect” button to “Add Friend”

Efficient:
simplify steps of each task

- ✓ Removed redundant “Give Feedback” button
- ✓ Removed redundant track info page in “Give Feedback” task flow
- ✓ Reduced steps to upload media

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Design Change #1

Problem

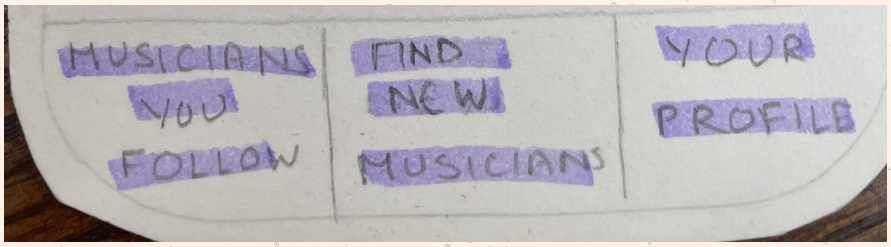
Users found the navigation bar unintuitive and hard to interpret

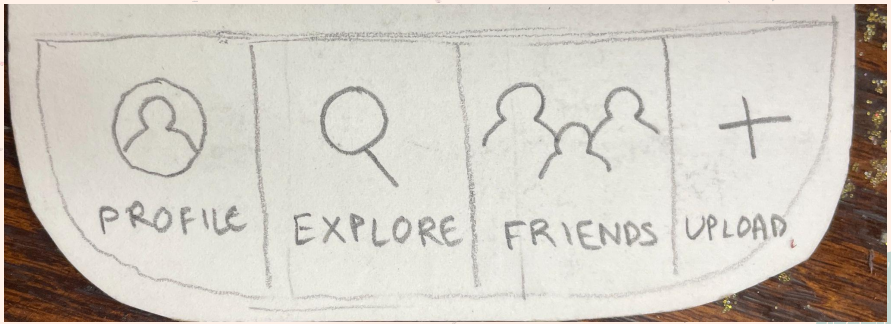
Solution

Clarify the description of each tab, and add icons for visual cues

Goal

This will make our prototype more robust

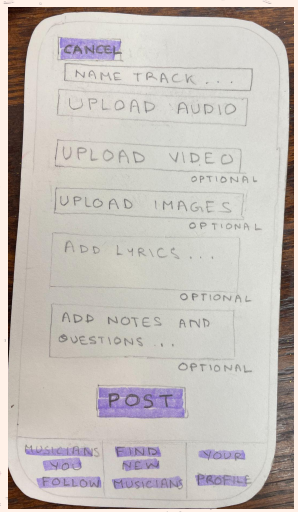


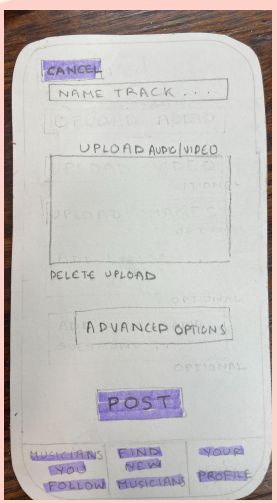


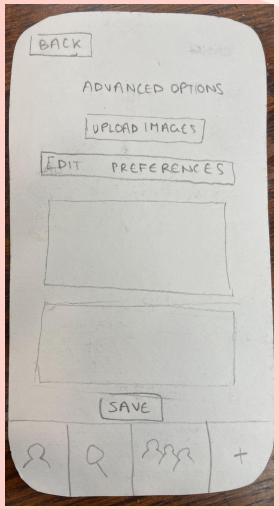
Design Change #2

Problem

The upload new music page was more complicated than it needed to be







Solution

Have a simplified page to add audio/video, and a pop up or separate page for more complicated additions like lyrics, notes, and questions

Goal

This will make our prototype more efficient to use

Efficiency: Design Change #3

Problem

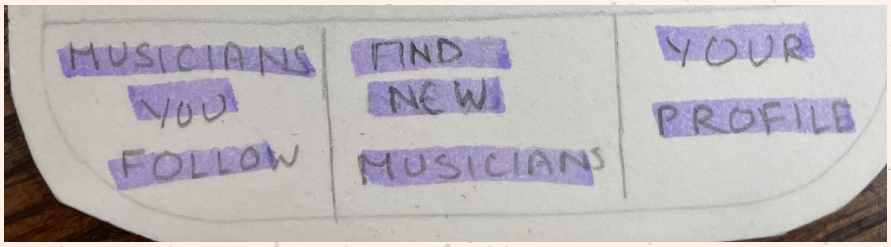
The core function of adding a new track was only available on certain screens

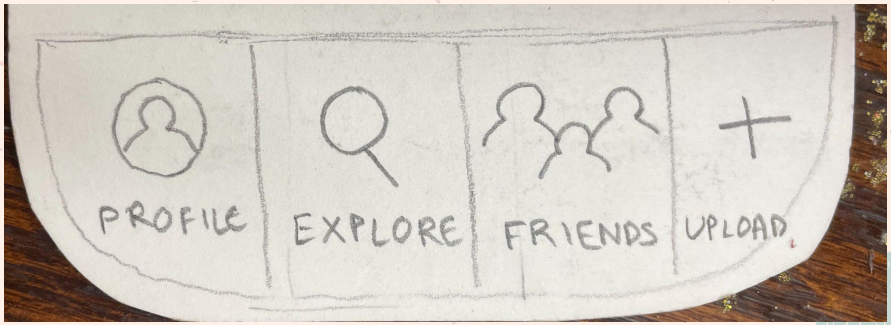
Solution

Adding an upload track section to the navigation bar

Goal

This will make our prototype more efficient to use





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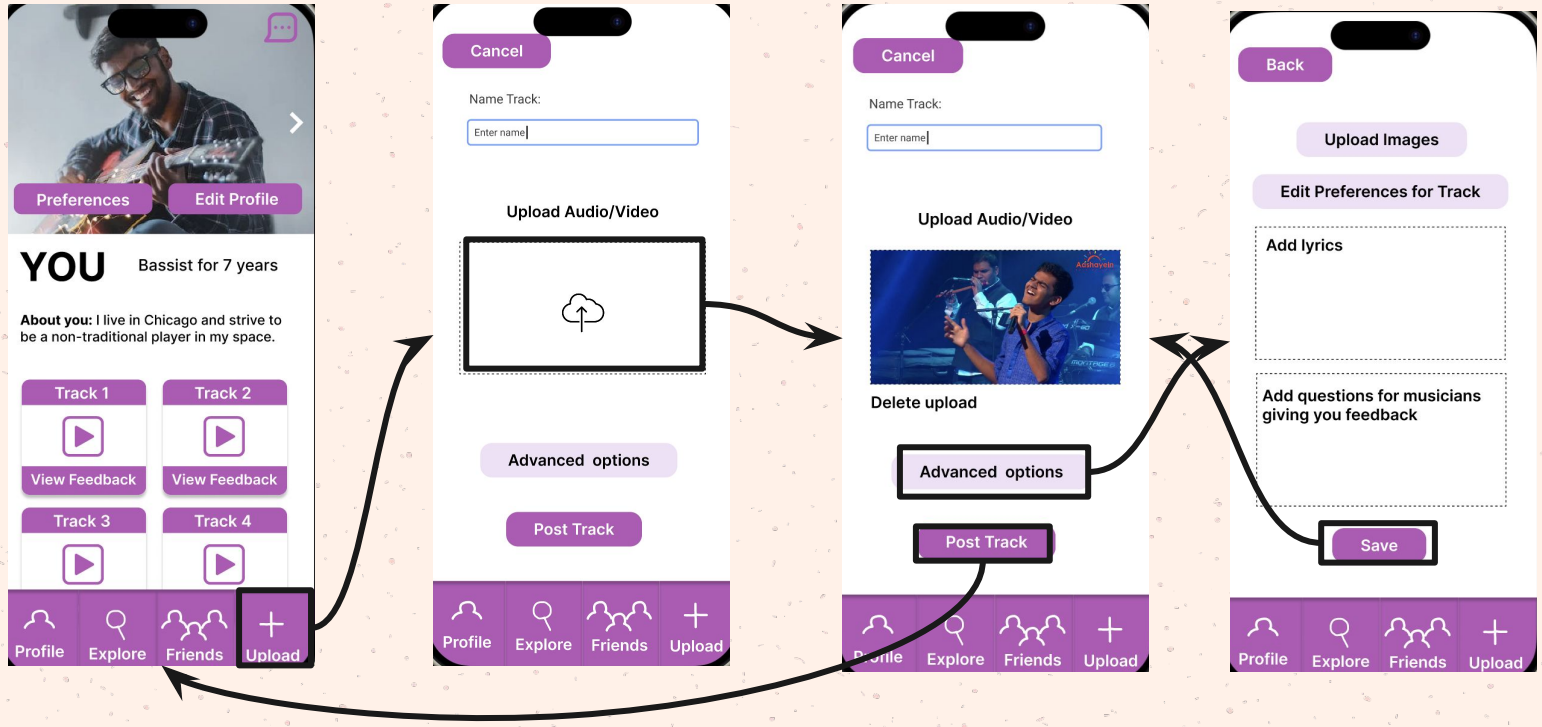
Task 1: Upload a New Track



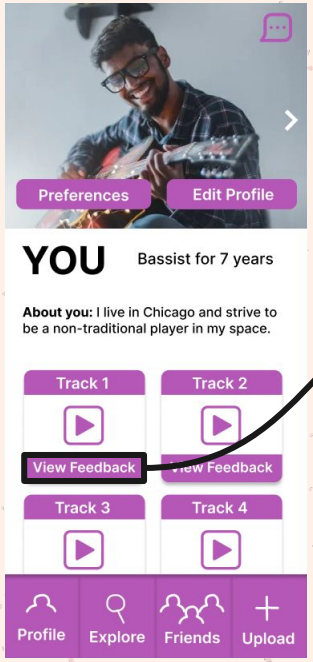
Press the “upload” button in the navigation bar.

Upload audio, video, and track name.

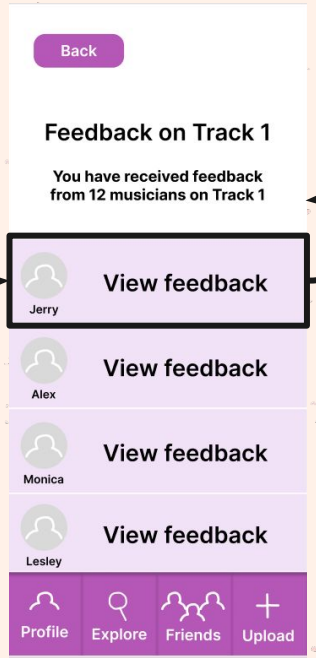
Click “post track” to finish your post or click “advanced options” to include advanced details.

Add lyrics, questions, additional images, or edit preferences for your reviewers and click “save” once finished.

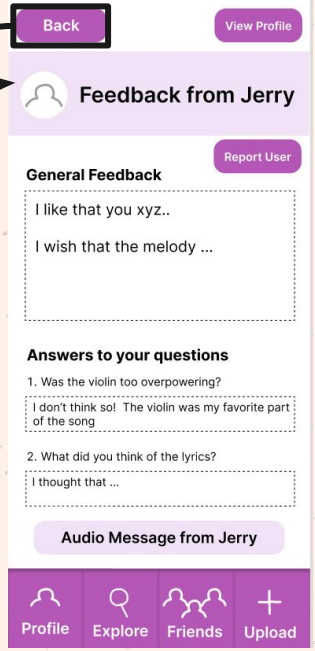
Task 2: View feedback on a task



Select a track and press the “view feedback” button.

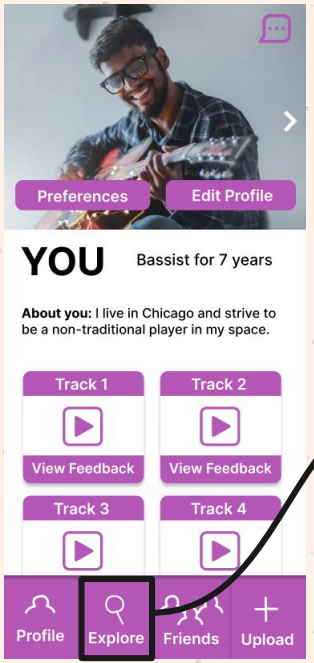


Select whose feedback you want to view and click “View Feedback”.

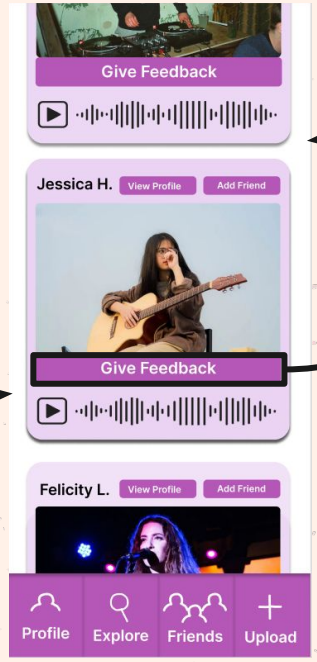


Review feedback and click “back” if you want to return to the previous page to view feedback from others.

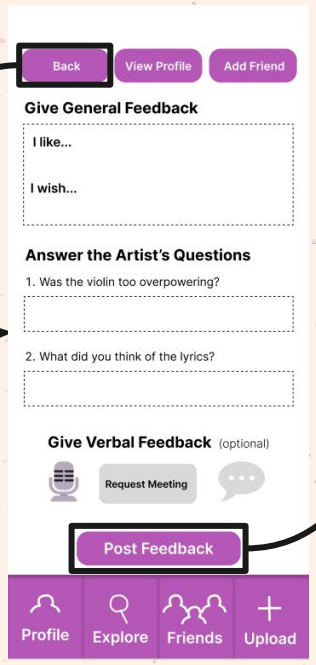
Task 3: Find a new musician and give feedback



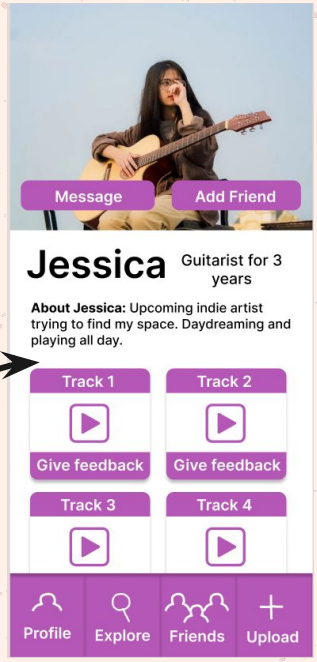
Click the “Explore” button to find new musicians and music.



Find a music and track that interest you and select “Give Feedback”.

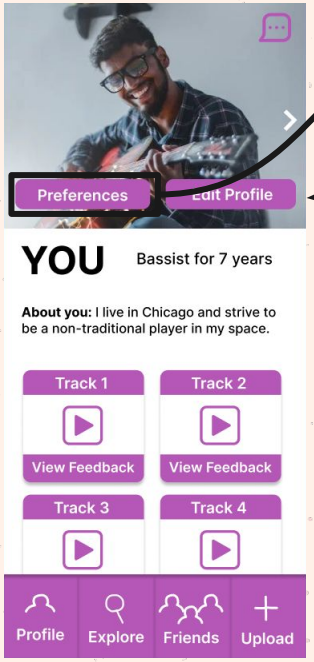


Fill in general feedback and answer the artist’s questions. Press “post feedback” to finish.

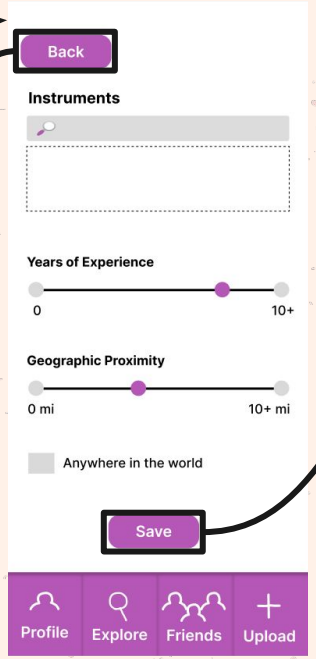


Taken to artist’s profile after giving feedback for further exploration and connection.

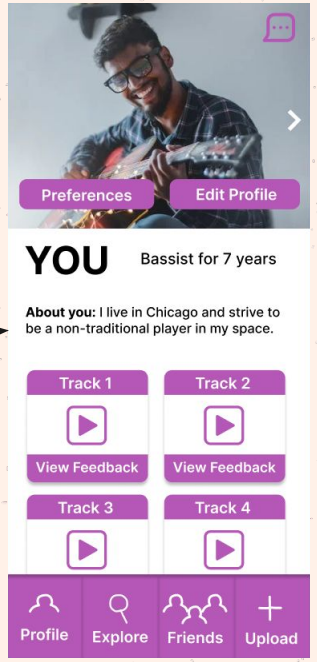
Task 4: Change your preferences for which musicians can give you feedback



Click on “preferences” on your profile page.



Change your preferences and click “save”.



Go back to profile after editing profile.

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Implementation

Our prototype was implemented using Figma

Pros

- Reasonable learning curve
- Collaborative and cloud-based

Cons

- Occasionally buggy
- Need to create a new frame for every minor change

Limitations

- Does not test the ways in which users would interact socially on the app
- Features we did not implement at this stage
  - Messaging
  - “Adding a friend”
- Community guidelines are still to be added to the prototype

Hard-Coded

- Upload audio and video only has one option
- Wizard of Oz: The algorithm only recommends 2-3 users right not
- Users cannot actually edit their profile/preferences, they can only see the relevant screens for these tasks

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Appendix

Figma Link

https://www.figma.com/proto/XrcHmkcjnuOvK2elxUBeUi/Medium-Fi-Prototype?type=design&node-id=1-2&t=pzjPJ6YQn8QAuKgN-1&scaling=scale-down&page-id=0%3A1&starting-point-node-id=1%3A2&mode=design

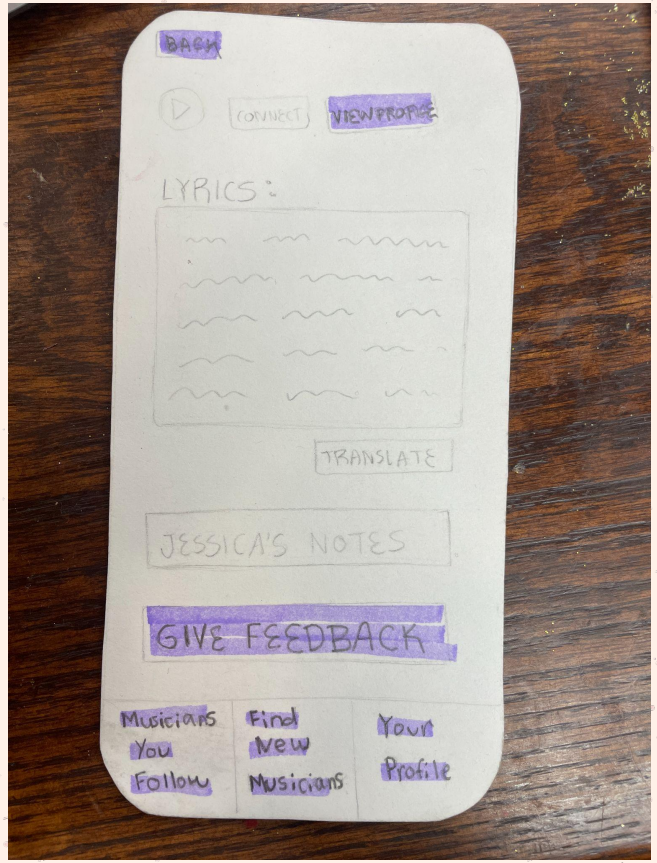
Efficiency: Design Change #4

Problem

Users were confused about having multiple screens before they could give feedback to a new musician

Solution

Display notes and allow users to enter feedback on one single screen to avoid an extra unnecessary step for the user

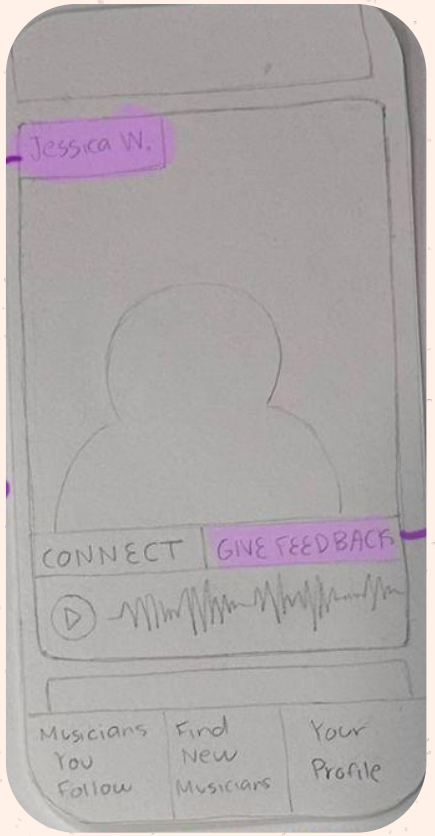
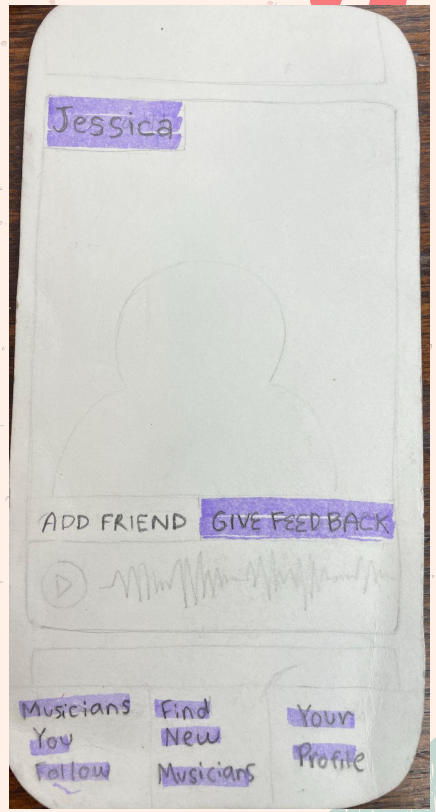


Removed this screen entirely

Robustness: Design Change #5

Problem

Tester thought that the connect button would help them give feedback to a new musician

Solution

Remove “connect” button and instead replace with something that makes it clearer that the function is just to add a musician as a friend → “add friend” button