

Interactive Medium-Fi Prototype

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Value Proposition

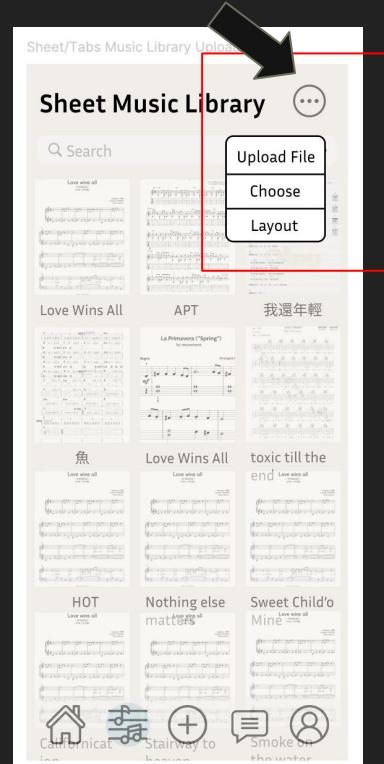
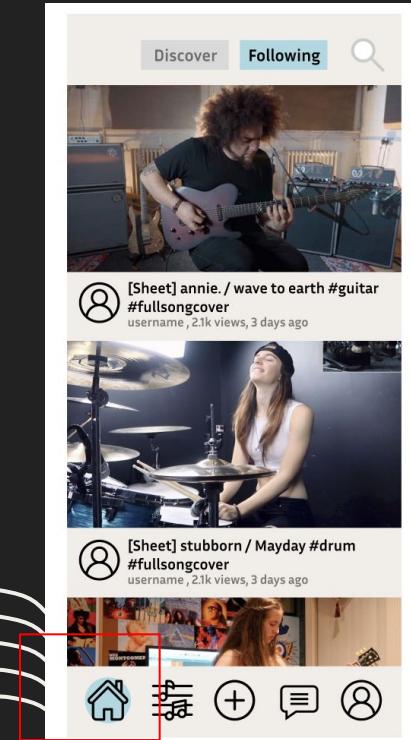
Value Proposition: Enhance musical practice through community engagement and collaborative tools.

Problem Statement: Musicians often practice in isolation without easy access to collaborative tools and community feedback.

Solution Overview: A comprehensive platform that not only tracks individual progress but also allows for mixing tracks, sharing music sheets, and community engagement.



Simple Task - Upload Sheet Music to the Library



Moderate Task - Record and Upload a Performance Video

The image consists of four screenshots illustrating the process of recording and uploading a performance video:

- recording pause page:** Shows a "New Video" screen with a circular recording button. A red box highlights the "Recording" tab at the bottom.
- recording video editing page:** Shows a preview of a person playing a guitar. A red box highlights the "Next" button at the top right.
- New Video:** A list of options: "Love Story", "Taylor Swift", "Guitar", "Attach sheet music", and "Video Type". A red box highlights the "Share" button at the bottom.
- username:** A post showing a video thumbnail, the title "Love Story / Taylor Swift #guitar #fullsongcover", and a row of interaction icons (heart, bookmark, attach sheet music, musical note). Below is a "Comments" section listing four users: user1, user2, user3, and user4, each with a comment placeholder.



Complex Task - Record and Upload a Video

Based on Someone's Template, and Share your Sheet Music

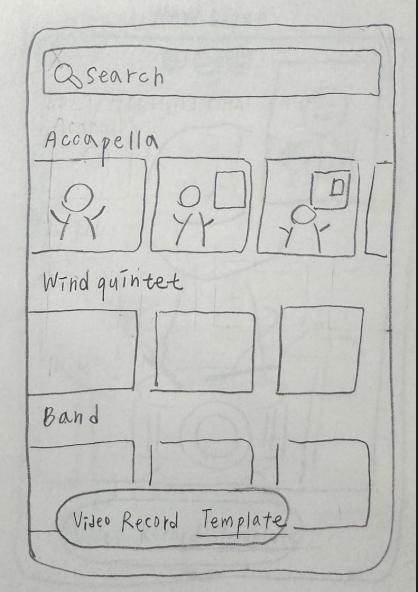
The image consists of five screenshots of a mobile application interface, illustrating a complex task:

- Search Screen:** Shows categories like "Band", "Accapella", "Wind quintet", and "Trio".
- New Video - Step 1:** Shows a camera viewfinder with recording controls.
- New Video - Step 2:** Shows a camera viewfinder with a preview of the recorded video.
- New Video - Step 3:** Shows the recorded video with editing options: Speed, Split, Replace by, and Volume.
- New Video - Step 4:** Shows a list of video types: Love Story, Taylor Swift, Guitar, Attach sheet music, and Video Type. It also shows a preview of the video and sheet music options.

Sheet Music Selection: A sidebar displays various sheet music options, each with a preview and a checkmark indicating selection. The options include:

- Love Wins All
- La Paloma ("Spring")
- 魚
- Love Wins All
- HOT
- Nothing else
- Sweet Child'o
- Californication
- Stairway to heaven
- Smoke on the water

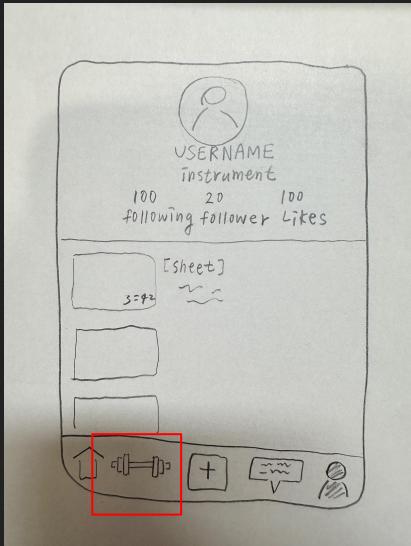
Design Change 1



Streamlined Template Navigation

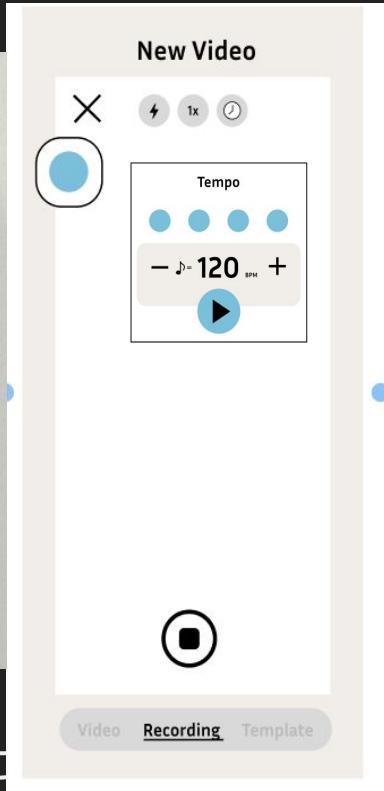
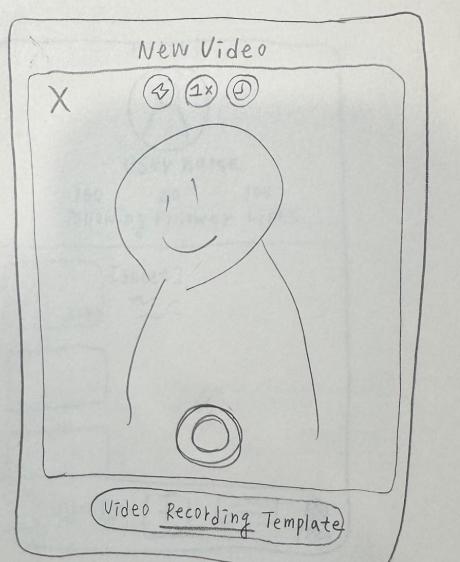
- Users struggled to find similar videos made with template
- Previous version was inefficient
 - Had to browse through entire list
- Created custom area to browse sheet music from other videos

Design Change 2



The first design had a dumbbell symbolizing the “training” or “practice part of our app. We changed it to be a place for storing and sharing the music sheets/tabs Every other changes if any were purely aesthetical

Design Change 3



Added metronome feature:

- Based on user feedback:
 - Having a metronome would help improve recording quality
- Added a collapsible metronome widget

Prototype Overview

README:

<https://docs.google.com/document/d/1jKzFtNRDHFZQo3iWygbY6i9oTubaHlyrP-MqTQoFvs0/edit?usp=sharing>

Figma:

<https://www.figma.com/design/XnoDCTmUkgdKgLEQA0cvid/-HCI-D--project?node-id=0-1&m=dev&t=kexrkegsnpUHHG2L-1>

password: hci+d

Limitations/Tradeoffs of the Current Prototype:

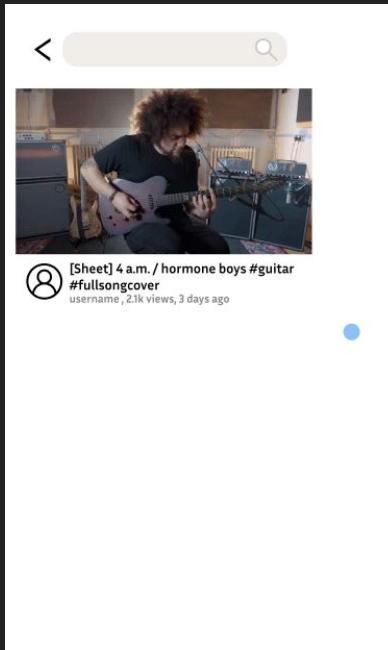
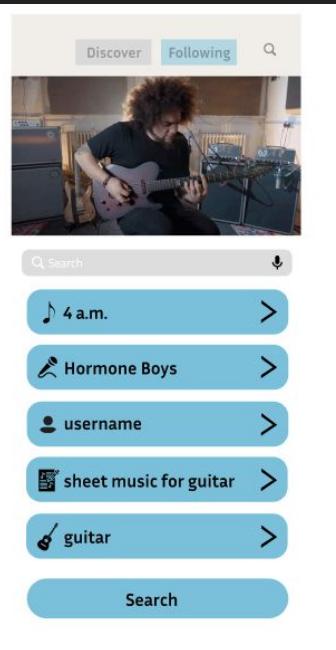
- Minimal Social Features like Messaging and Profile
 - Little effect on core functionality
- Sheet music library not fully implemented
 - Features and scope still under consideration

Hard-coded features

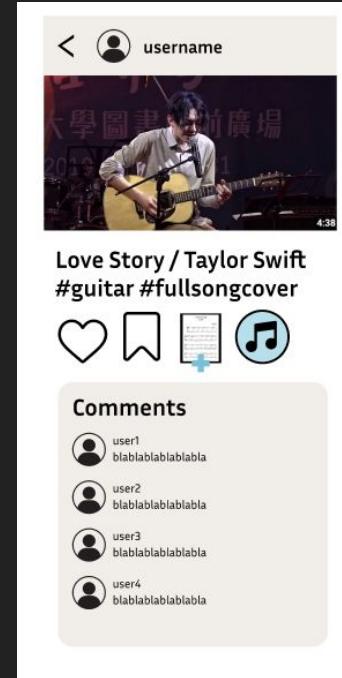
- Search functionality
 - Too many possibilities
- Adding tags to song
 - Too many buttons, gets complicated quickly



Search function

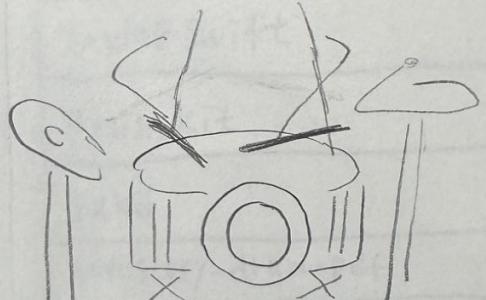
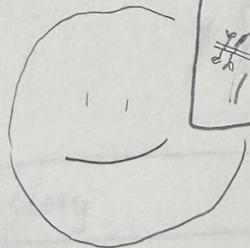
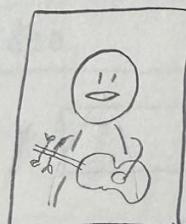


Video page



Some other pages that were not showcased:

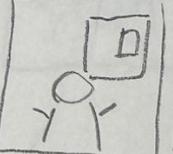
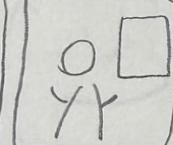
New Video



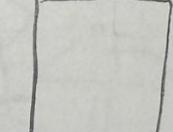
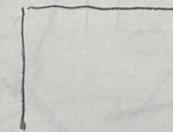
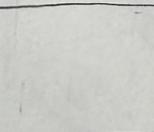
Video Record Template

Search

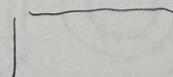
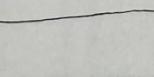
Accapella



Wind quintet

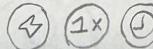


Band

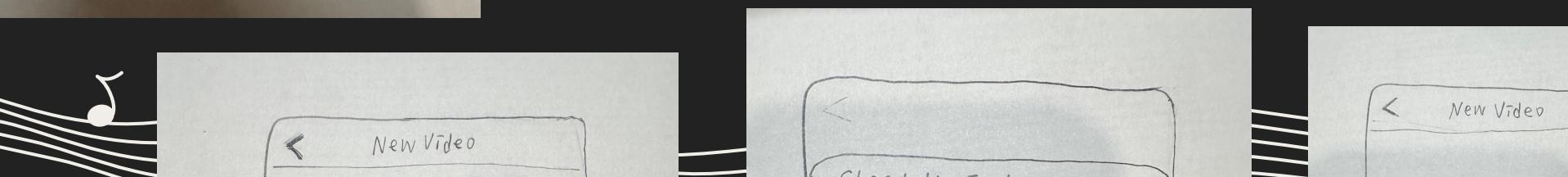
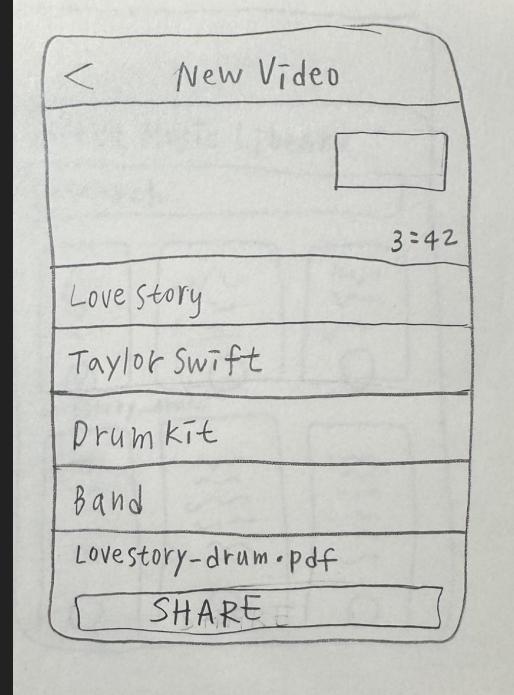
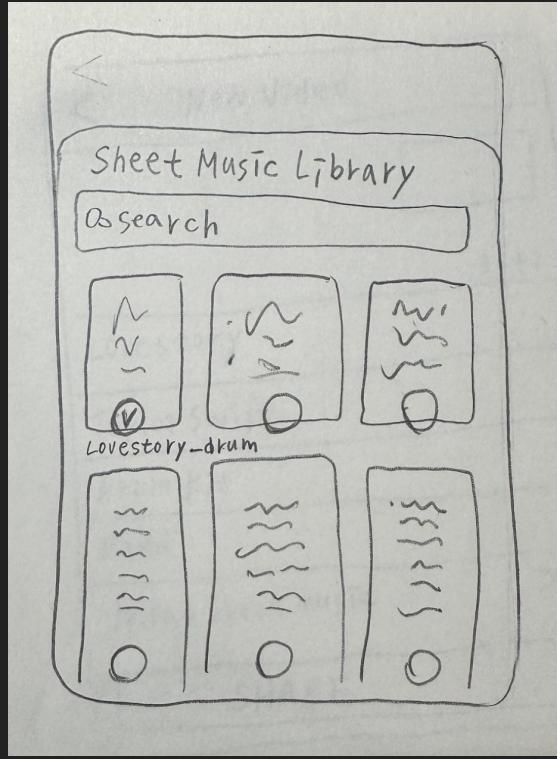
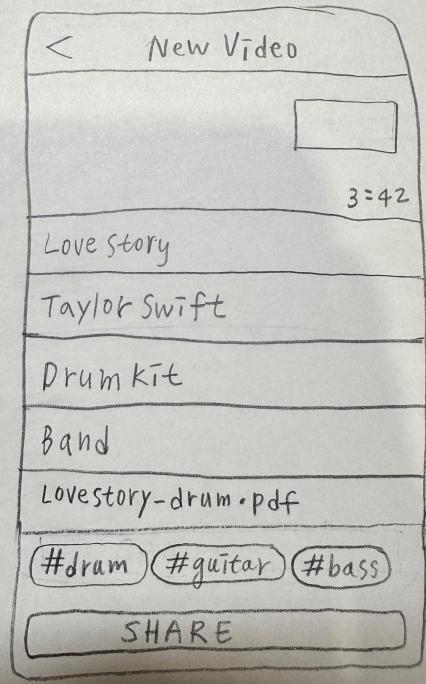


Video Record Template

New Video



Video Recording Template



3:4
ME/ARTIST #GUITAR
#FULLSONGCOVER

