

Low-Fi Prototyping and Testing

Sonare



Team Members



Bianca
Chung



Brian
Huang



Carlos
Espinola



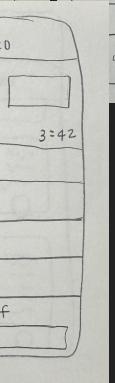
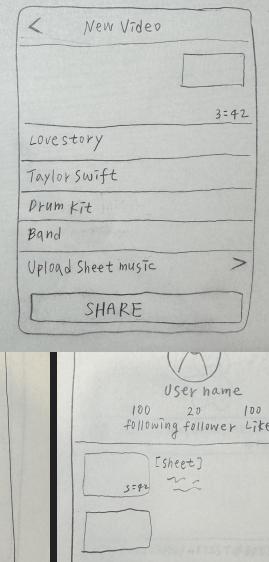
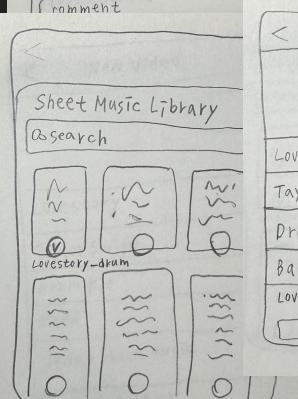
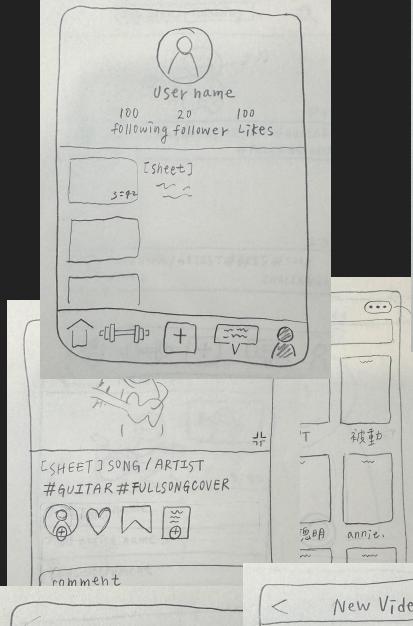
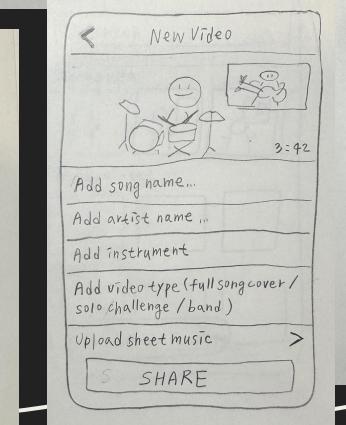
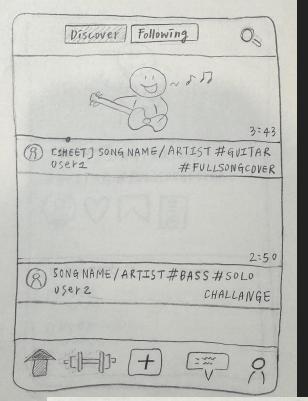
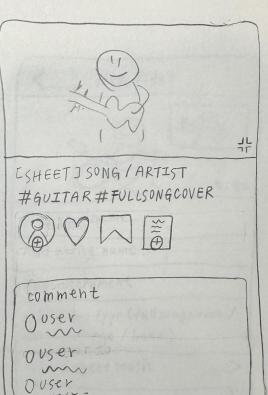
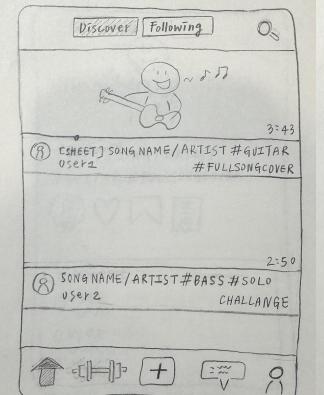
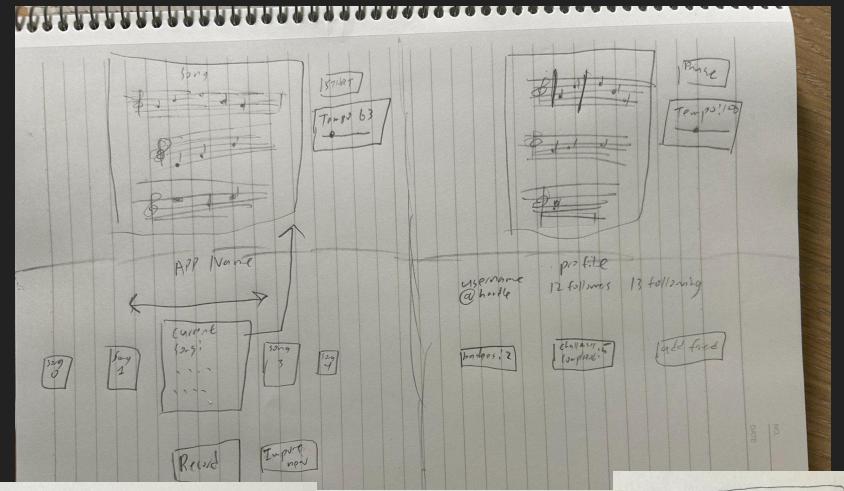
Value Proposition

Music Practicing

A social practice platform for musicians to record progress, challenge friends, and complete songs together.



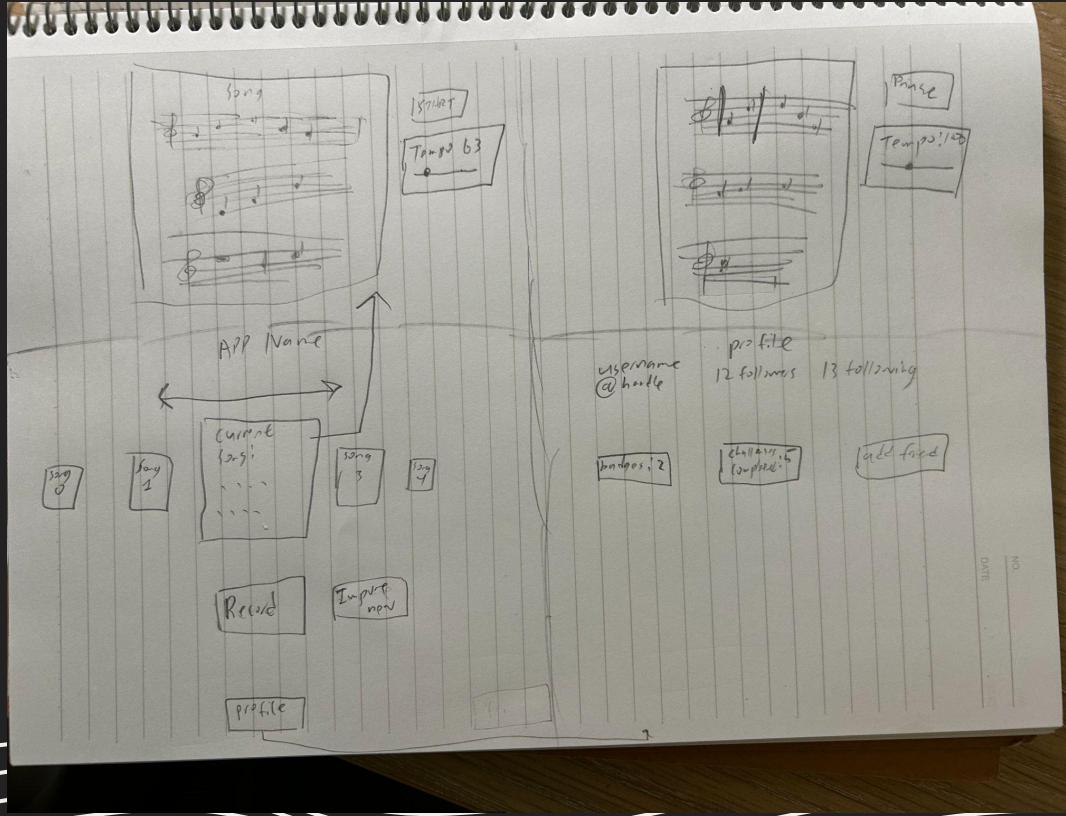
Sketches



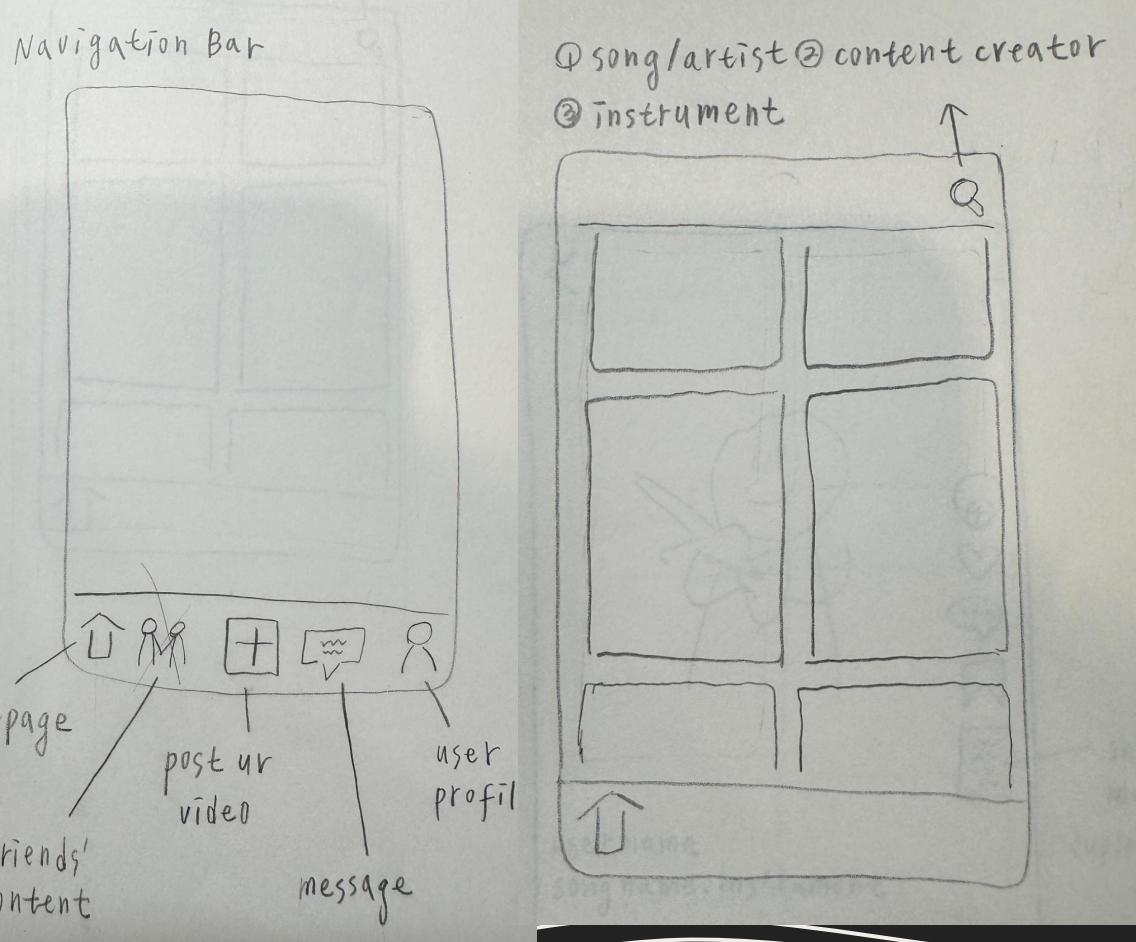
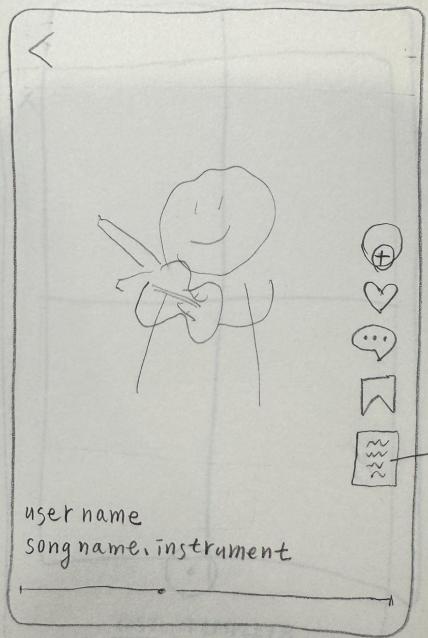
Top 3 designs



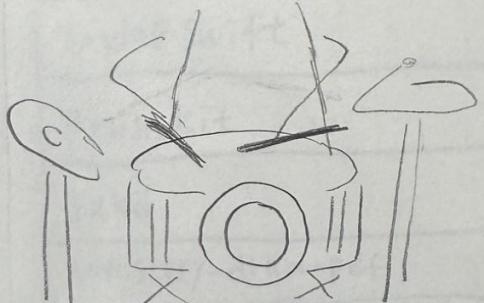
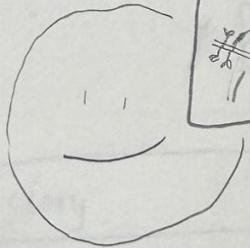
Design 1



Design 2



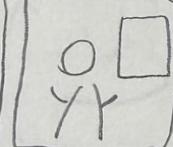
New Video



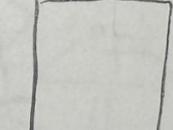
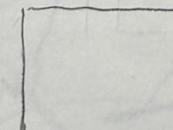
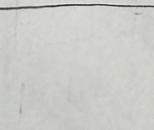
Video Record Template

Search

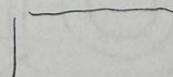
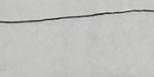
Accapella



Wind quintet

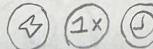


Band



Video Record Template

New Video



Video Recording Template

Design 3

Design 3

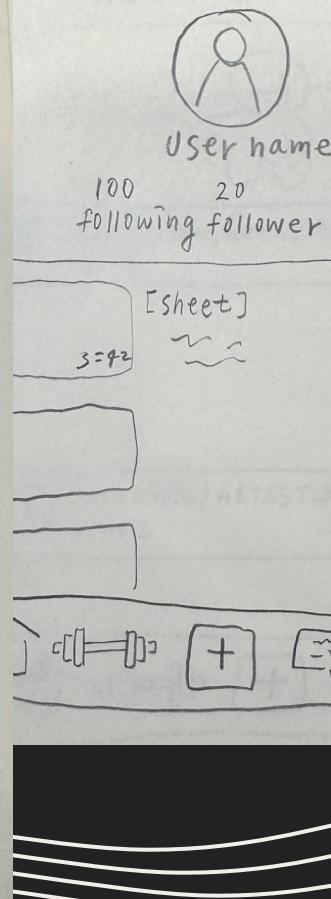
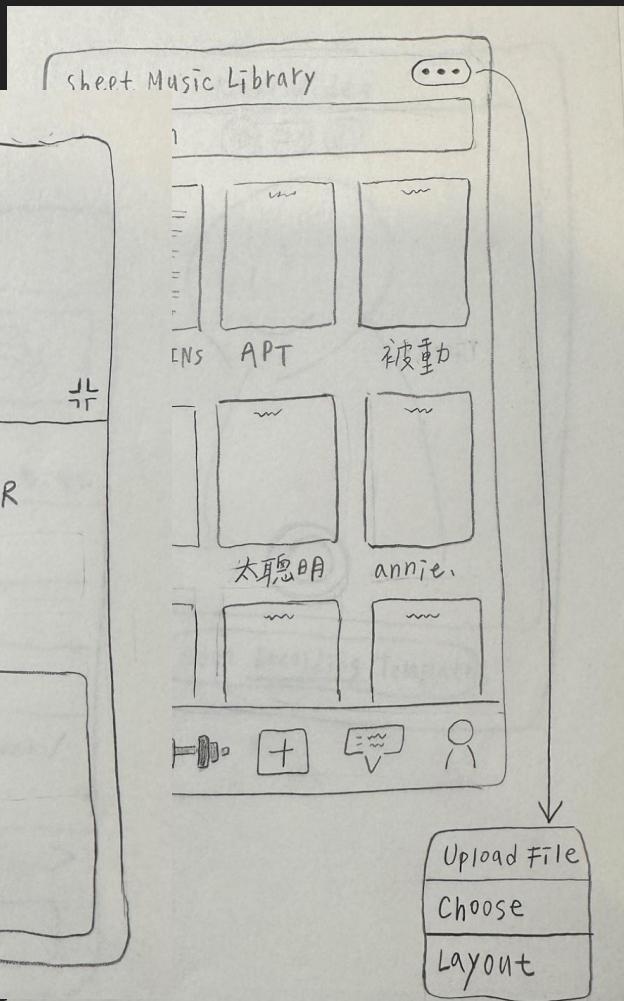
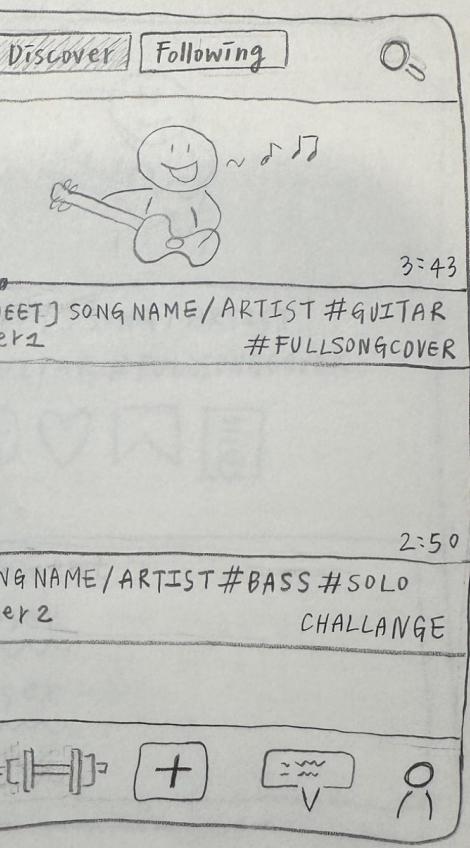
The image displays three hand-drawn wireframe sketches for a mobile application interface, arranged horizontally. The sketches are drawn in black ink on a light background.

Sketch 1 (Top Left): A screen titled "New Video". It features a back arrow, a small empty rectangular box, and a large empty rectangular area below. Below this are two horizontal lines containing the text "Love story" and "Taylor Swift". To the right of "Love story" is a small "3=4" label. At the bottom are four input fields: "Add song name...", "Add artist name ...", "Add instrument", and "Add video type (full song cover / solo challenge / band)". To the right of the first input field is a small "3=42" label.

Sketch 2 (Center): A screen titled "Sheet Music Library". It has a back arrow and a search bar labeled "Search". Below the search bar are several small rectangular boxes containing musical notation. One box is labeled "Love story - drum".

Sketch 3 (Top Right): A screen titled "New Video". It features a back arrow, a small empty rectangular box, and a large empty rectangular area below. Below this are two horizontal lines containing the text "Love story" and "Taylor Swift". To the right of "Love story" is a small "3=42" label. At the bottom are four input fields: "Drum kit", "Band", "Love story - drum.pdf", and a large "SHARE" button. To the right of the first input field is a small "3=42" label. In the bottom right corner, there is a small decorative graphic of musical notes.

Design 3



Selected Interface & Rationale

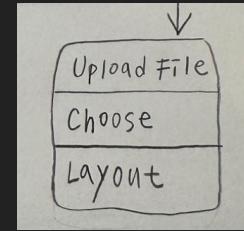
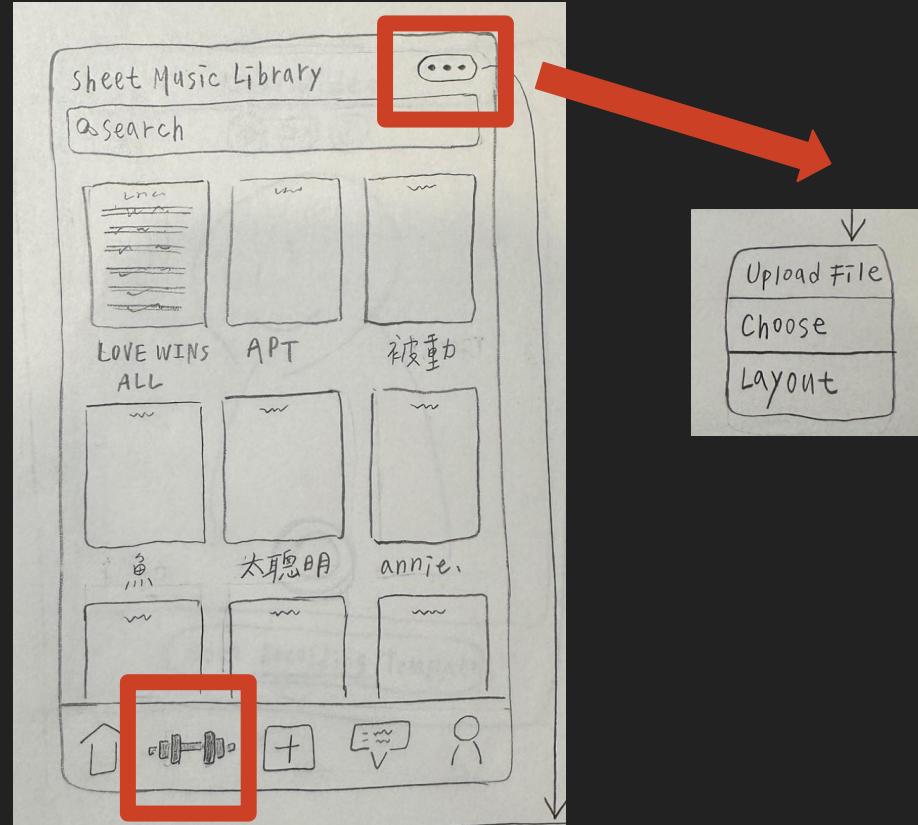
- Seamless integration of template recordings
- Logical user flow
- In-depth search functionality
- Effectively incorporates multiple features

**Selected:
Design 3**

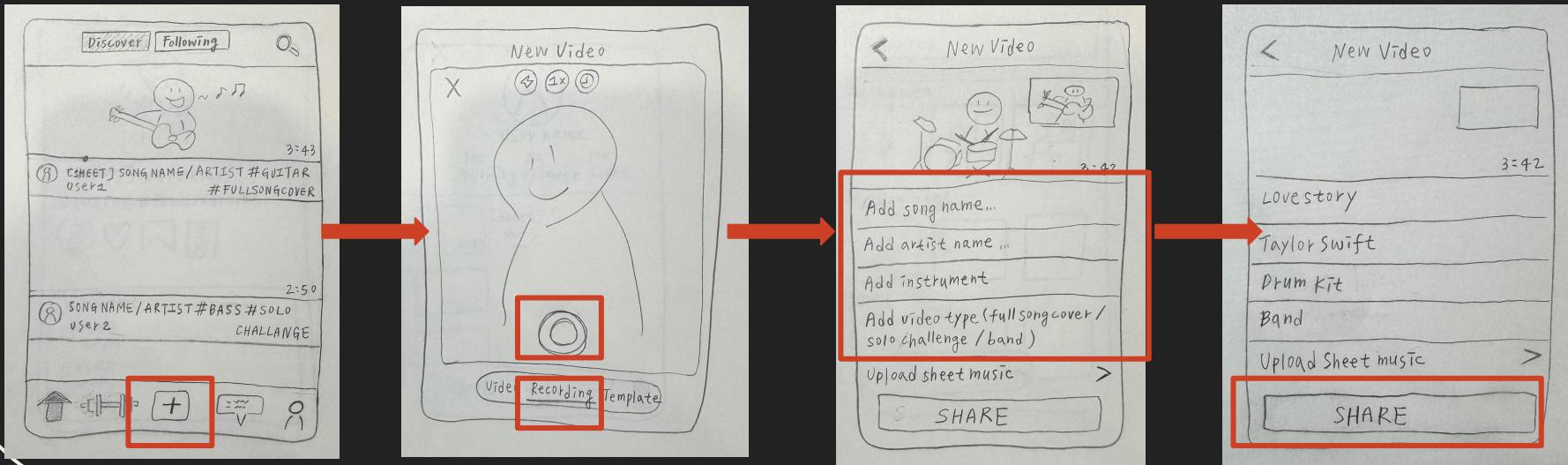
User Testing



Simple Task - Upload Sheet Music to the Library



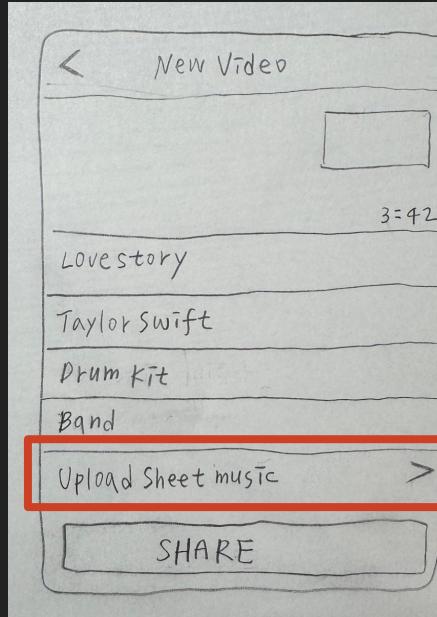
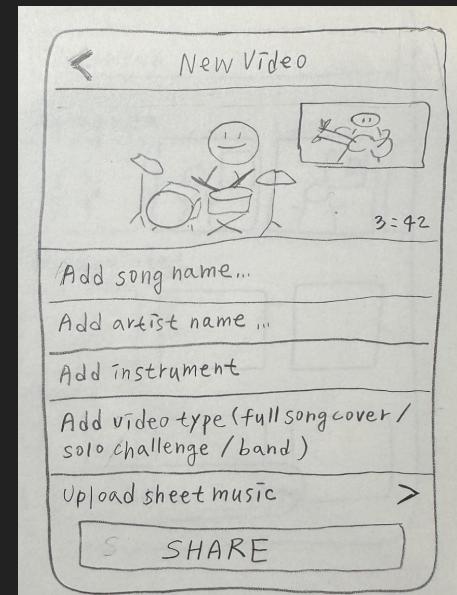
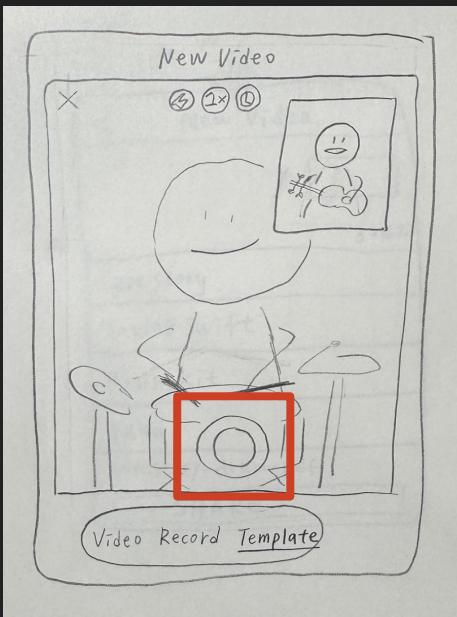
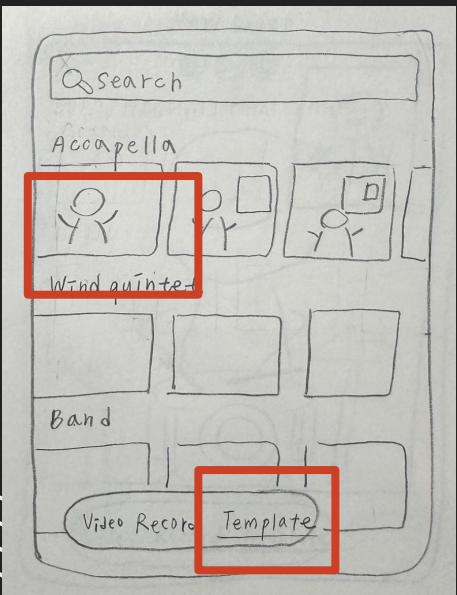
Moderate Task - Record and Upload a Performance Video





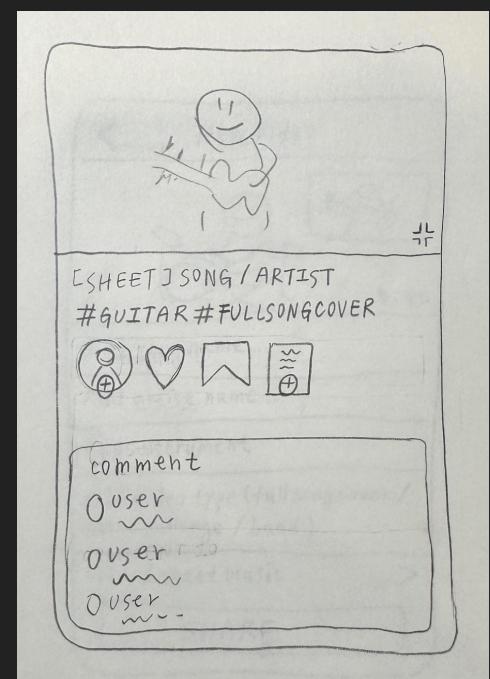
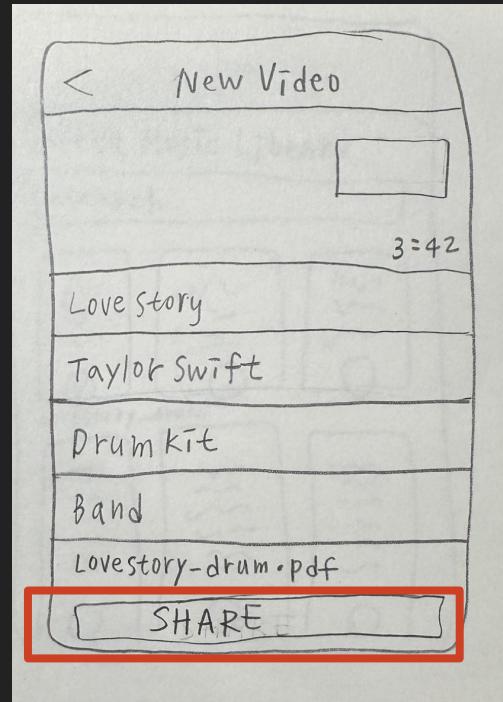
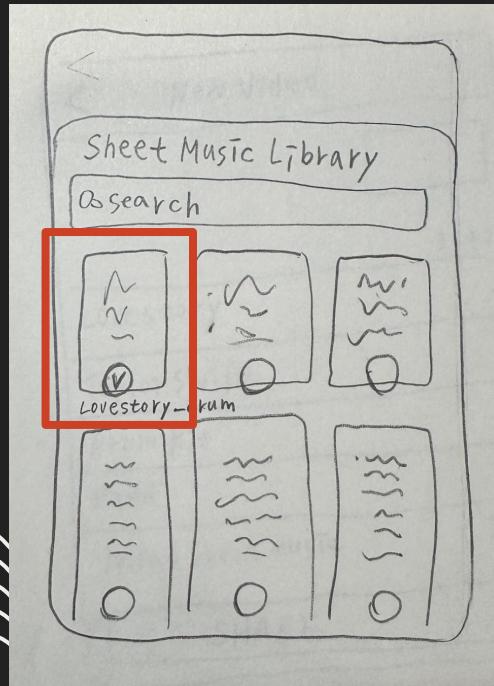
Complex Task - Record and Upload a Video

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



Complex Task - Record and Upload a Video

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



Experiential Method



Participants : 3



electric guitar : 5yrs, violin : 10yrs
*use digital tools for practice



bass : 4yrs
*lack of a music community



guitar : 3yrs
*self-learner



Role

- Facilitator : Bianca
- Computer : Brian
- Observer : Carlos



Testing Procedure

- Each participant completed three tasks
- Tasks were presented one at a time with only the goal, not the method
- The facilitator gave instructions and guided transitions between tasks.

Experimental Result



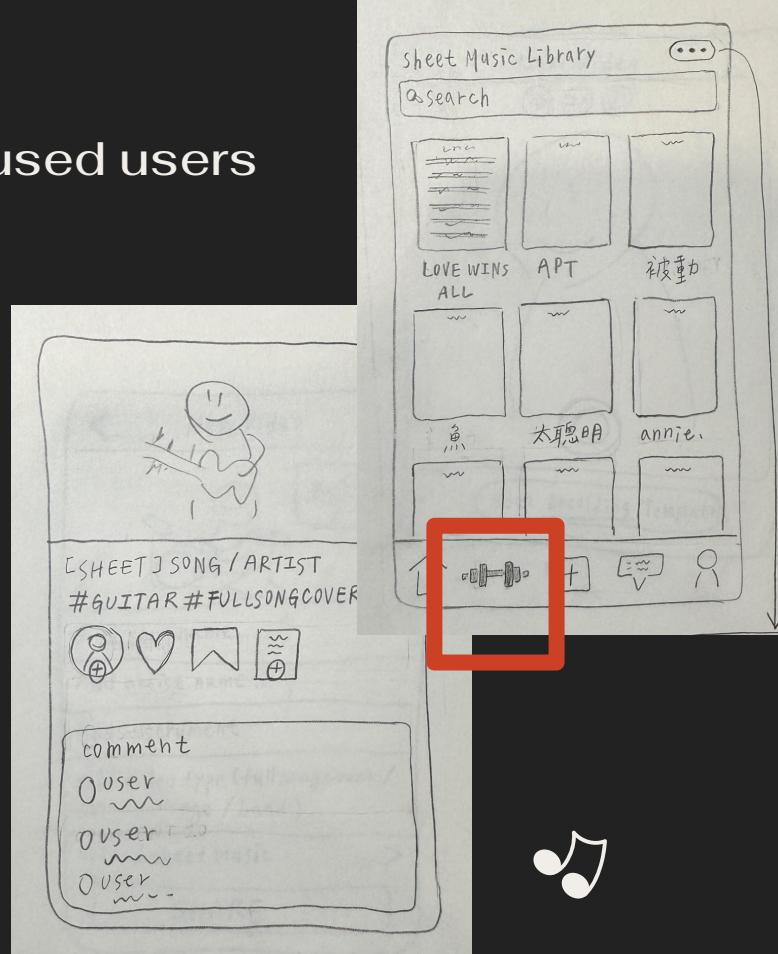
What Users Liked

- 🎵 “It’s nice to be given a chance to play music with strangers”
- 🎵 “I would use this app to search for sheet music”
- 🎵 “I think having a consistent title format is great, it makes browsing videos cleaner and helps me quickly catch the key information.”



Where Users Got Stuck

- ♪ The icon of “Sheet Music Library” confused users (severity:4)
- ♪ Finding sheet music for a specific instrument is complicated (severity:3)
=> Users must search for a video, open the linked file, and manually check whether the part exists
- ♪ Users couldn't identify what template was used in the video page (severity:4)



It Would Be Nice to Have...

- ♪ Offering finer control features such as a built-in metronome and adjustable time markers during recording helps streamline the video recording workflow
- ♪ Add a field in the user profile for listing the instruments the user can play



Suggested UI Changes

1. Change the icon for the "Sheet Music Library"
2. Add a filter function to the video search feature, including the following criteria:

 Song title	 Original composer
 Video type	 Instruments played in the video
 Whether sheet music is uploaded	
 Instrumentation included in the uploaded sheet music	
3. Add a metronome and time adjustment markers to the video recording interface.
4. Display the template used in the video on the video information page.

Summary of Talk

- Users showed strong interest in collaboration
- The sheet music feature was considered valuable, especially when titles were well-formatted and information was easy to scan
- More fine-tuned recording controls were requested for smoother video creation

