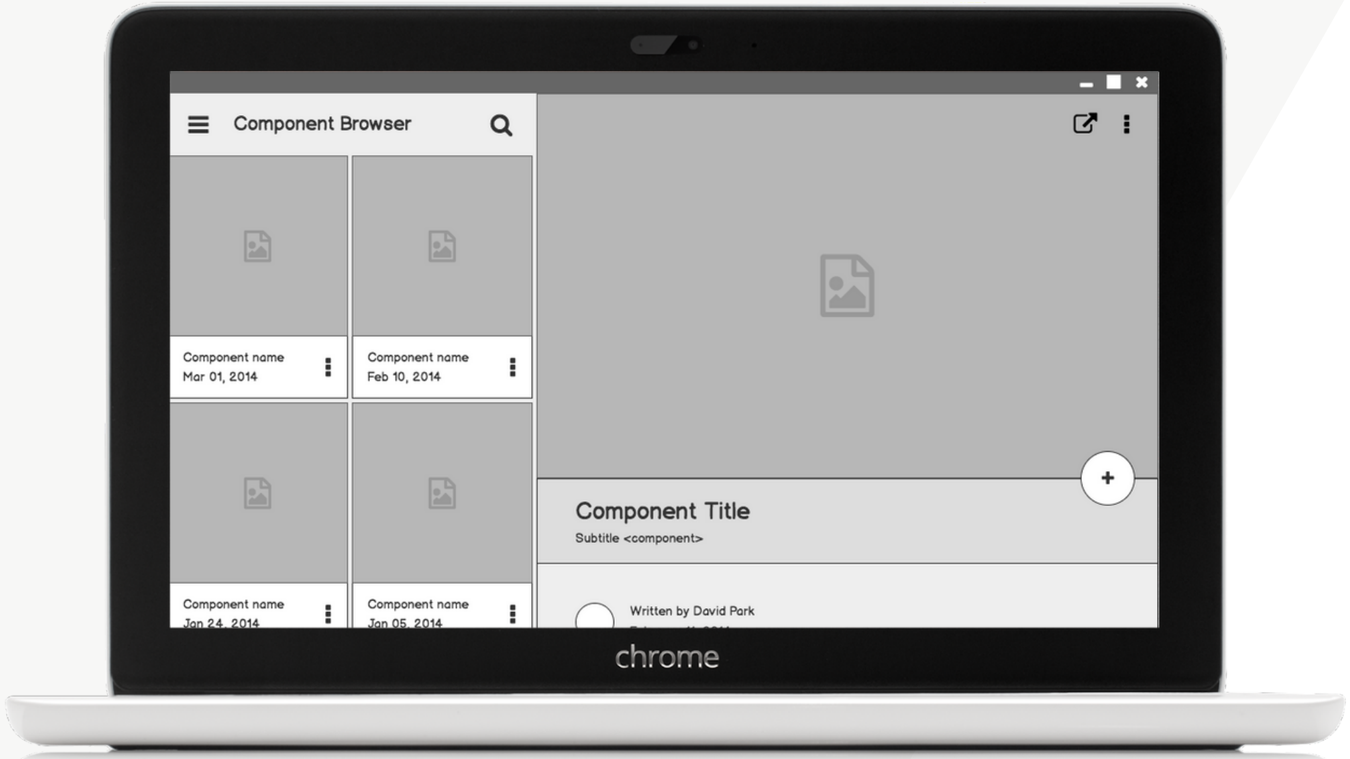
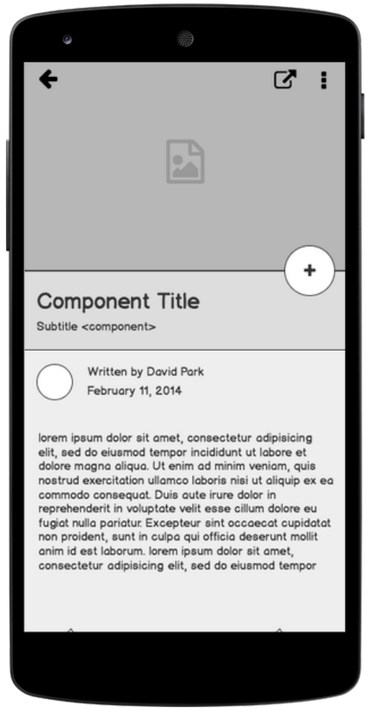
LITHUB PITCH DECK





GROUP 40

OUTLINE

Statement of Purpose

Risks

Rabbit Holes

System Diagrams

Wireframes

User Personas & User Stories

STATEMENT OF PURPOSE

Today, many musicians record their practices as a way to keep track of their progress.

However, many of them are facing a common problem that the current tools available are too decentralized.

To prompt a more efficient practicing experience, we aim to design a centralized tool for musicians to gather their practice recordings while also enabling them to take notes on their practices using the same tool.

RABBIT HOLES/RISKS

search bar
enable a search bar for users to look up files

toggle folder
enable user to toggle folder and change directory structure

rename file/folder

different icon on homescreen
allow user to customize their own icons

export notes and audio file

audio visualization

rich text editor
enable user to input rich text for note-taking

desktop vs. web
enable multi-end usage

SEARCH BAR COST ANAYLSIS

The search bar is a feature whose benefit to the project would scale very well with the introduction of related sorting features. That is, if we were to attach certain tags to the audio object, such as composer or date, the search bar would be of much use to the user as they could sort by said tag. However, if we were to stick to a basic organizational structure that's purely defined by the user through folder structure nesting, the search bar would only marginal help speed up the searching process for the user.

To start off, we would have to be able to store the names of each file into a pseudo-database that the search bar could use to query results. Realistically, we would probably only implement a “search-by-substring” approach, as the implementation of complex autocomplete/prediction algorithms would take too much time. The substring approach can be somewhat easily implemented using builtin Javascript functions to search the pseudo-database for the user inputted substring.

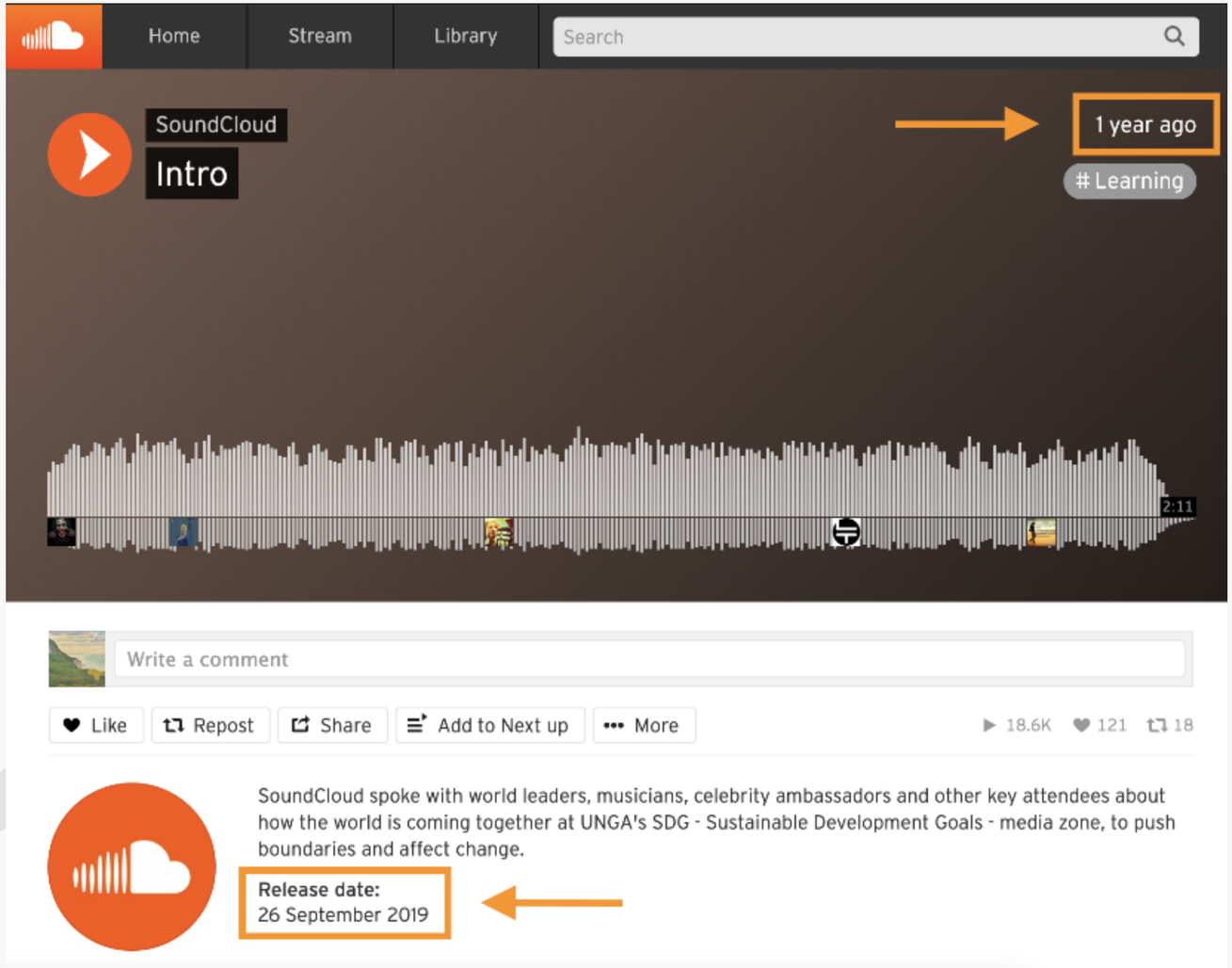
AUDIO SCRUBBER COST ANAYLSIS

The ability to see the peaks and dips in the pure audio file so that we could more precisely allow the user to scrub through the audio recording would be of great use for setting more precise timestamps, if we are to implement that feature, and to simply rewind through the audio so that they can replay a certain portion of the audio recording. Plus, it adds a nice visual flair to the application.

HTML or Javascript does not have a bundled and comprehensive way to approach this feature, and we would probably have to rely on the usage of web APIs to handle this for us in terms of providing the waveform visualization. The slider portion of this wouldn't actually be as bad, as we could rely on mostly HTML in terms of implementation, but it is still time consuming.

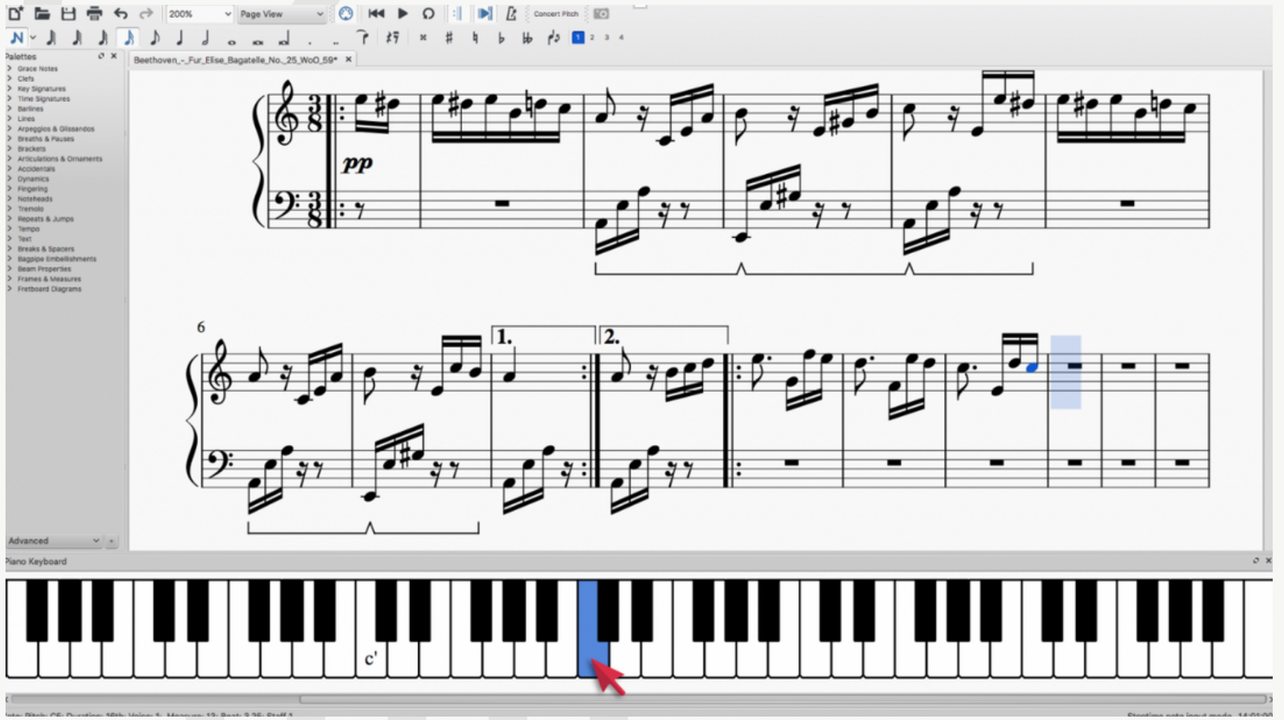
SOUNDCLOUD COMPARISON

Similarities	Differences
comment on specific timestamps	our product focuses on individual user
music playing option	local application first instead of being a social platform
music upload	

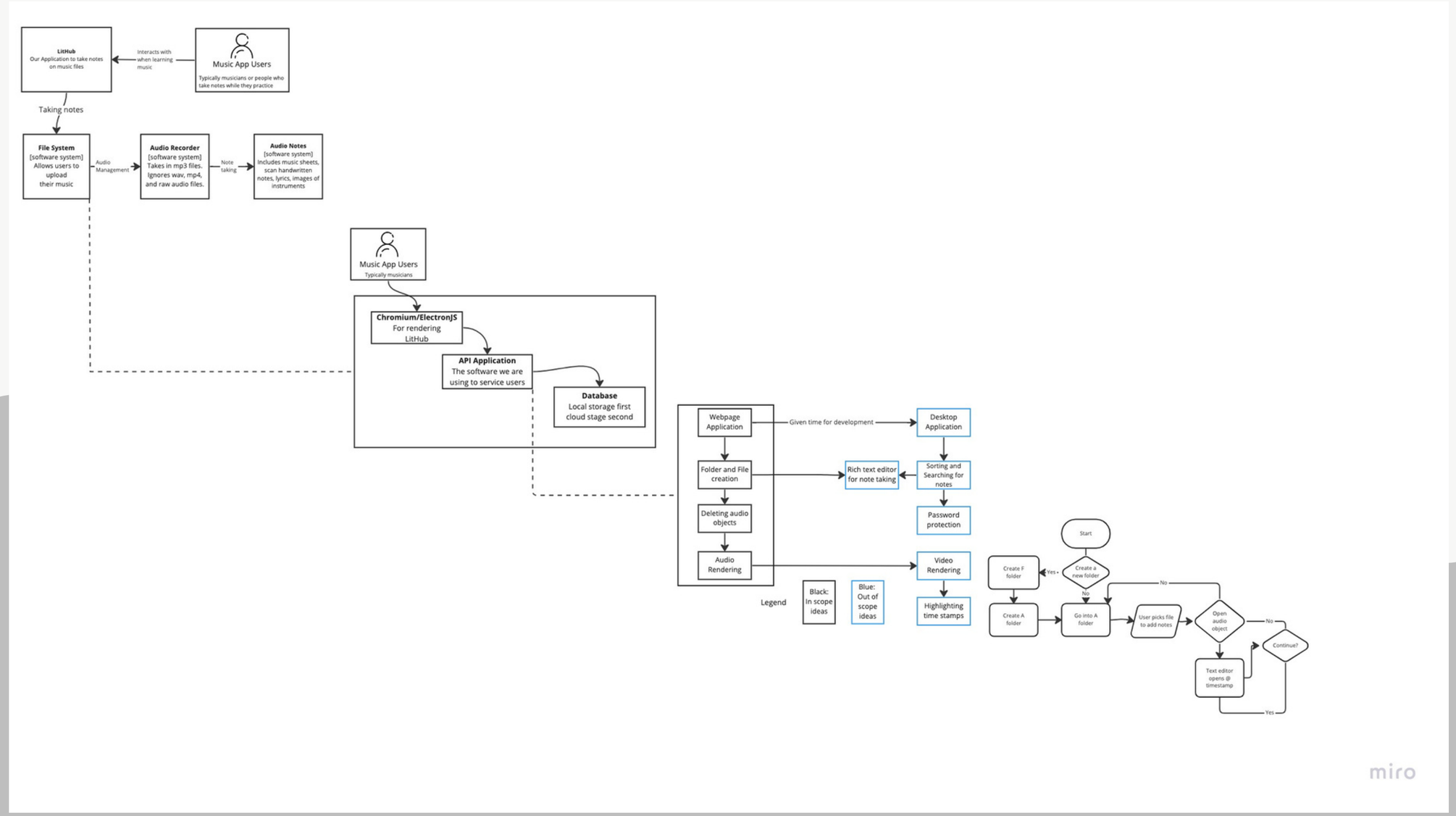


MUSESCORE COMPARISON

Similarities	Differences
target audience is musicians	our product will not have features to create sheets, only audio option
annotate specific parts in pieces	

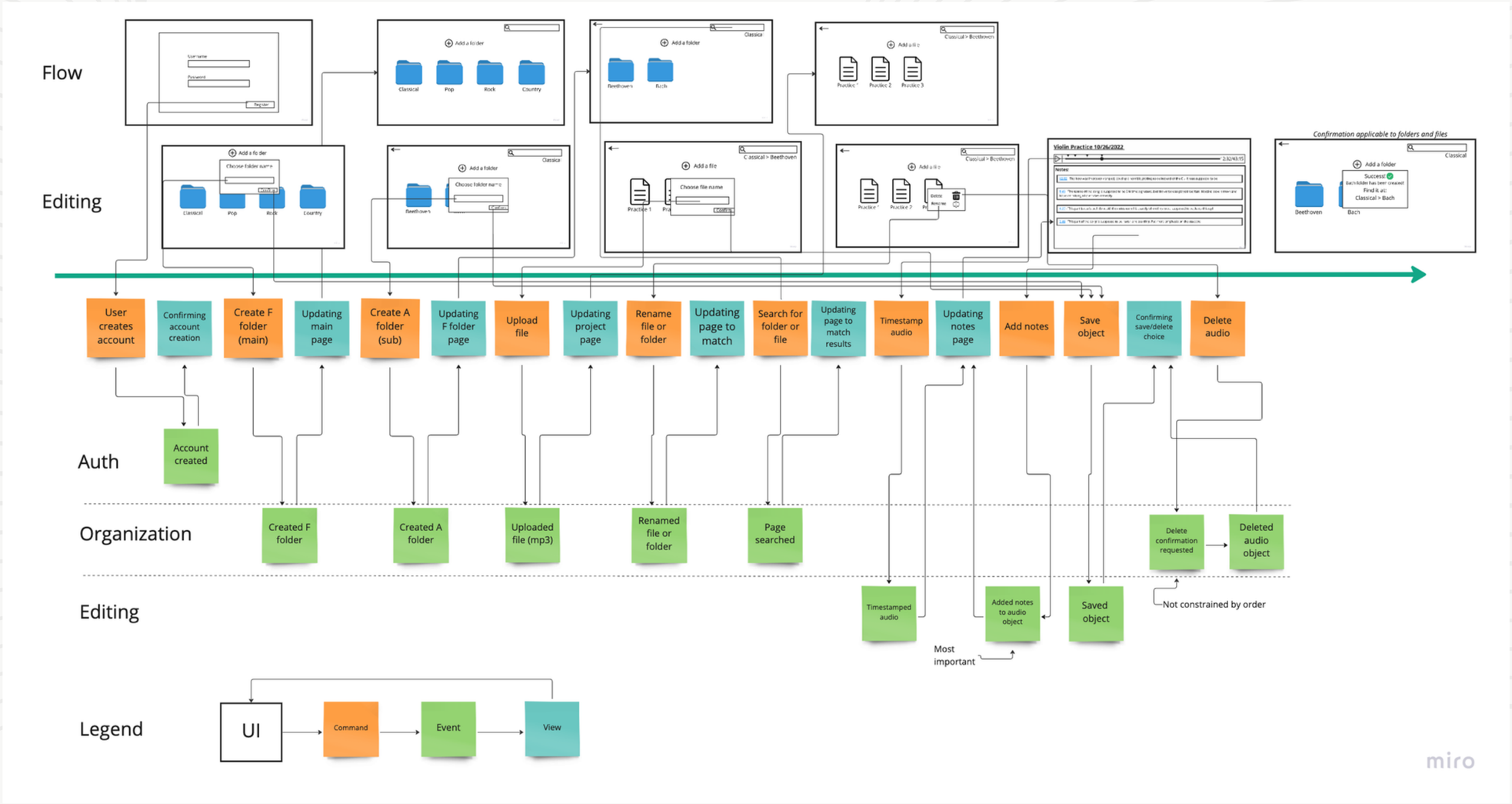


C4 MODELING DIAGRAM

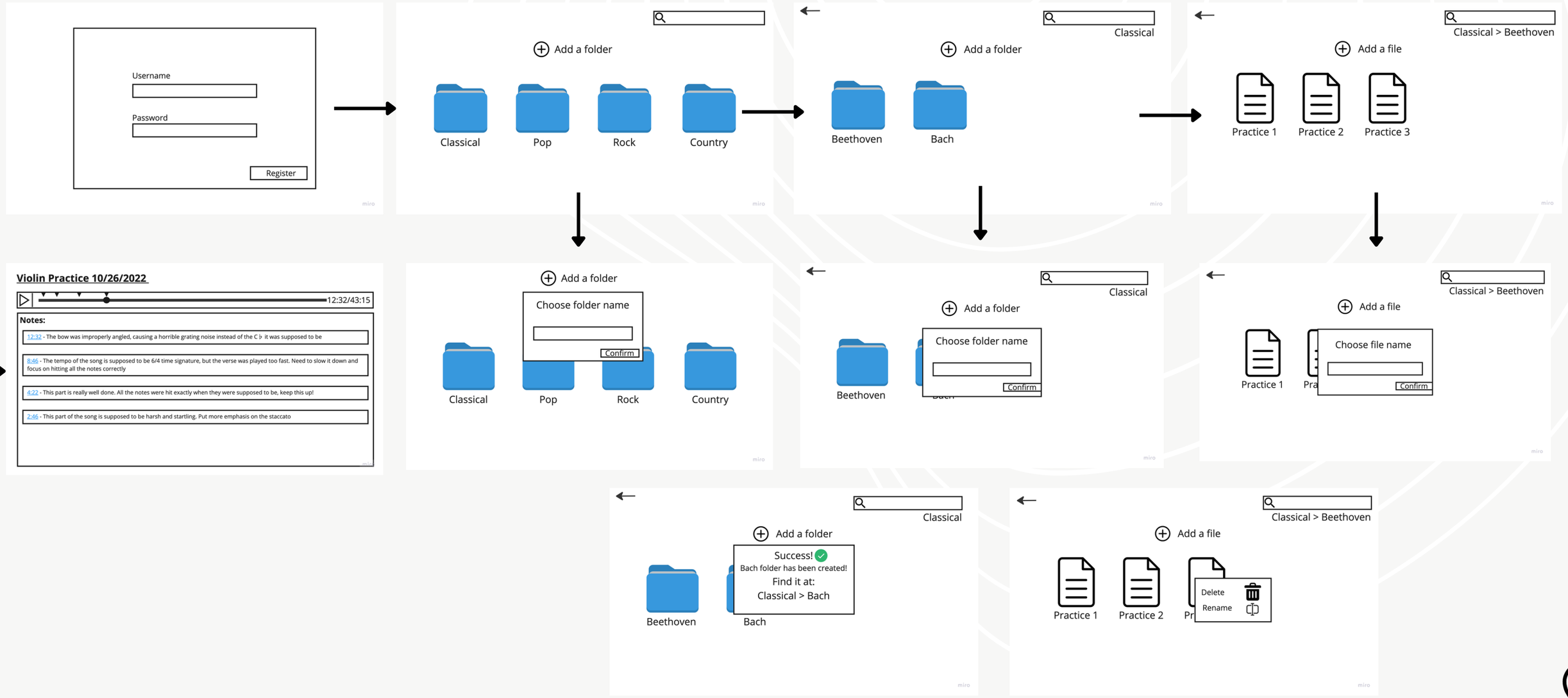


SYSTEM DIAGRAMS

Event Model



WIREFRAMES


Username
Password
Register
Add a folder
Classical
Pop
Rock
Country
Classical
Add a folder
Beethoven
Bach
Classical > Beethoven
Add a file
Practice 1
Practice 2
Practice 3
Violin Practice 10/26/2022
12:32/43:15
Notes:
12:32 - The bow was improperly angled, causing a horrible grating noise instead of the C♭ it was supposed to be
8:46 - The tempo of the song is supposed to be 6/4 time signature, but the verse was played too fast. Need to slow it down and focus on hitting all the notes correctly
4:22 - This part is really well done. All the notes were hit exactly when they were supposed to be, keep this up!
2:46 - This part of the song is supposed to be harsh and startling. Put more emphasis on the staccato
Add a folder
Choose folder name
Confirm
Classical
Pop
Rock
Country
Classical
Add a folder
Choose folder name
Confirm
Beethoven
Classical > Beethoven
Add a file
Choose file name
Confirm
Practice 1
Classical
Add a folder
Success!
Bach folder has been created!
Find it at:
Classical > Bach
Beethoven
Bach
Classical > Beethoven
Add a file
Practice 1
Practice 2
Delete
Rename

USER PERSONA

Karen Chung

Amateur Violinist

Karen wants to be able to listen back on her recordings so she can improve faster and save more time to learn more Beatles' songs

Background

- Age: 22
- Location: Los Angeles
- Occupation: Student
- Marital Status: Single
- Education: High School

About

- My favorite band is The Beatles.
- Even though I live in LA, I hate the traffic here. My favorite Starbucks drink is iced latte, which I order at precisely 7:00 am sharp every weekday morning.

Challenges

- As a full time student, Karen rarely finds enough time to practice violin in her spare time.
- Karen likes to take notes on her recordings, but going back and forth between audio on her phone and physical notes can be time consuming

USE CASES

Use Case ID	1
Use Case Name	Upload audio
Actors	User
Description	The user will be able to upload audio files
Normal Flow	1. The user will open software. 2. The user will navigate to file location to upload audio file 3. The user uploads audio file. 4. The user has option to name folder
Alternate Flow	None

Use Case ID	2
Use Case Name	Add notes
Actors	Admin
Description	The admin will be able to add notes to the existing audio files
Normal Flow	1. The admin will select the folder contains the audio file that he/she wants to add notes to. 2. The admin will select the audio object that he/she wants to add notes to. 3. The admin will be select the note file that’s attached to the audio object. 4. The admin will input text to the note file that’s attached to the audio file. 5. The admin will click save the note file after finishing the note-taking.
Alternate Flow	None

USER STORIES

As a **violinist**, I want to have a way to review my practice recordings so that I can maximize my practice.

As a **private music teacher**, I want to be able to review my students' practice recordings so that I can keep a more organized feedback for my students.

As a **college student**, I want to have a place where I can access all of my practice recordings so that I can easily take notes on my practices

As a **band**, we want to have a place to store our live performance recordings so that we can review them and take notes as a group.

As a **meetings notetaker**, I want to be able to organize my meeting notes in a more efficient way so that I can provide my team with a better format of navigation between the notes and the meeting recording.

DEMO TIME!

00:12

03:45

QUESTIONS?

LINK TO MIRO BOARD FOR MORE RESEARCH AND FULL RESOLUTION DIAGRAMS