



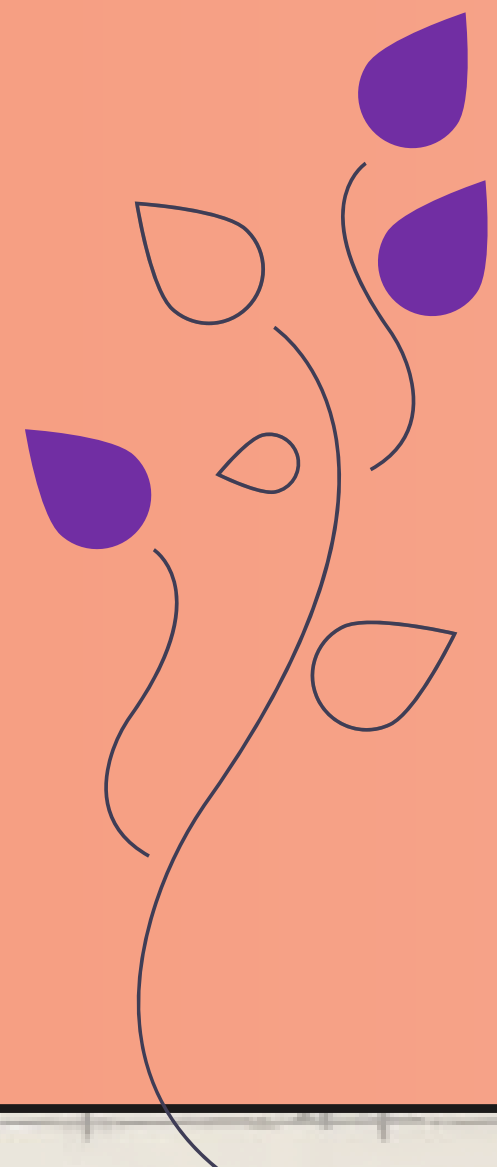
Allegro

The ultimate practice companion for student musicians

Karla Santamaria

Nállely Martínez Almonte

Beth Callen



Allegro

The ultimate practice companion for student musicians



Agenda

🎵 Overview

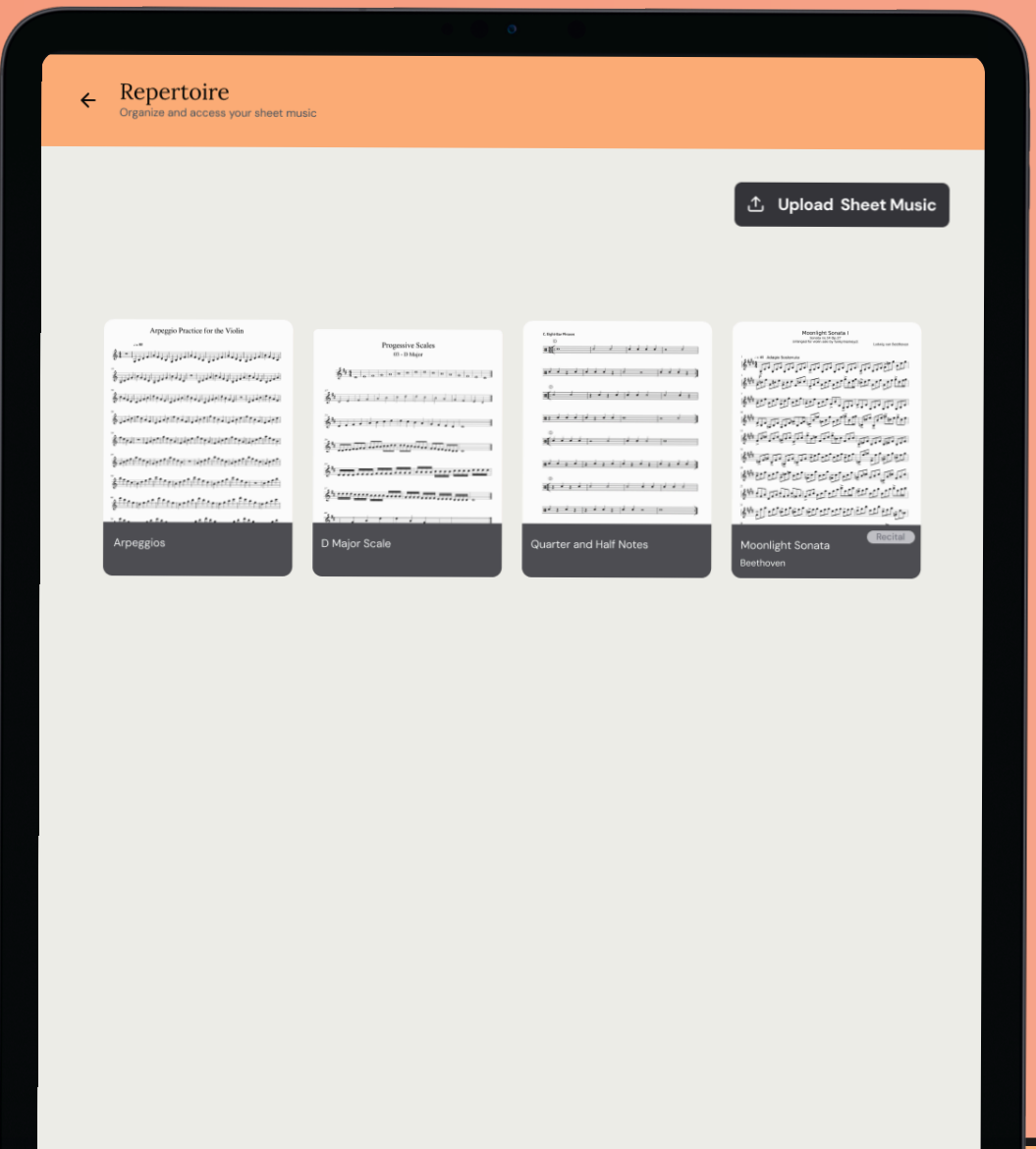
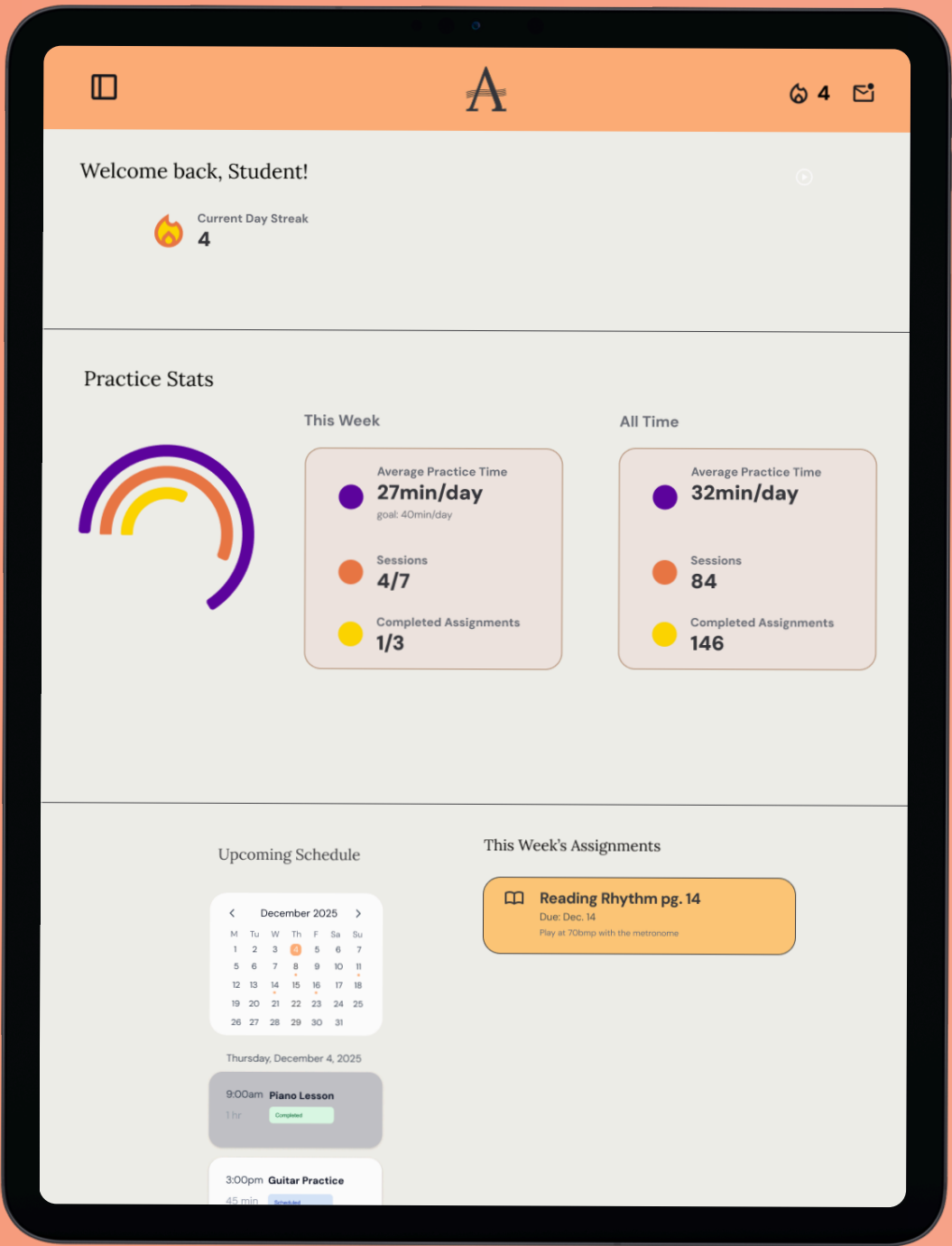
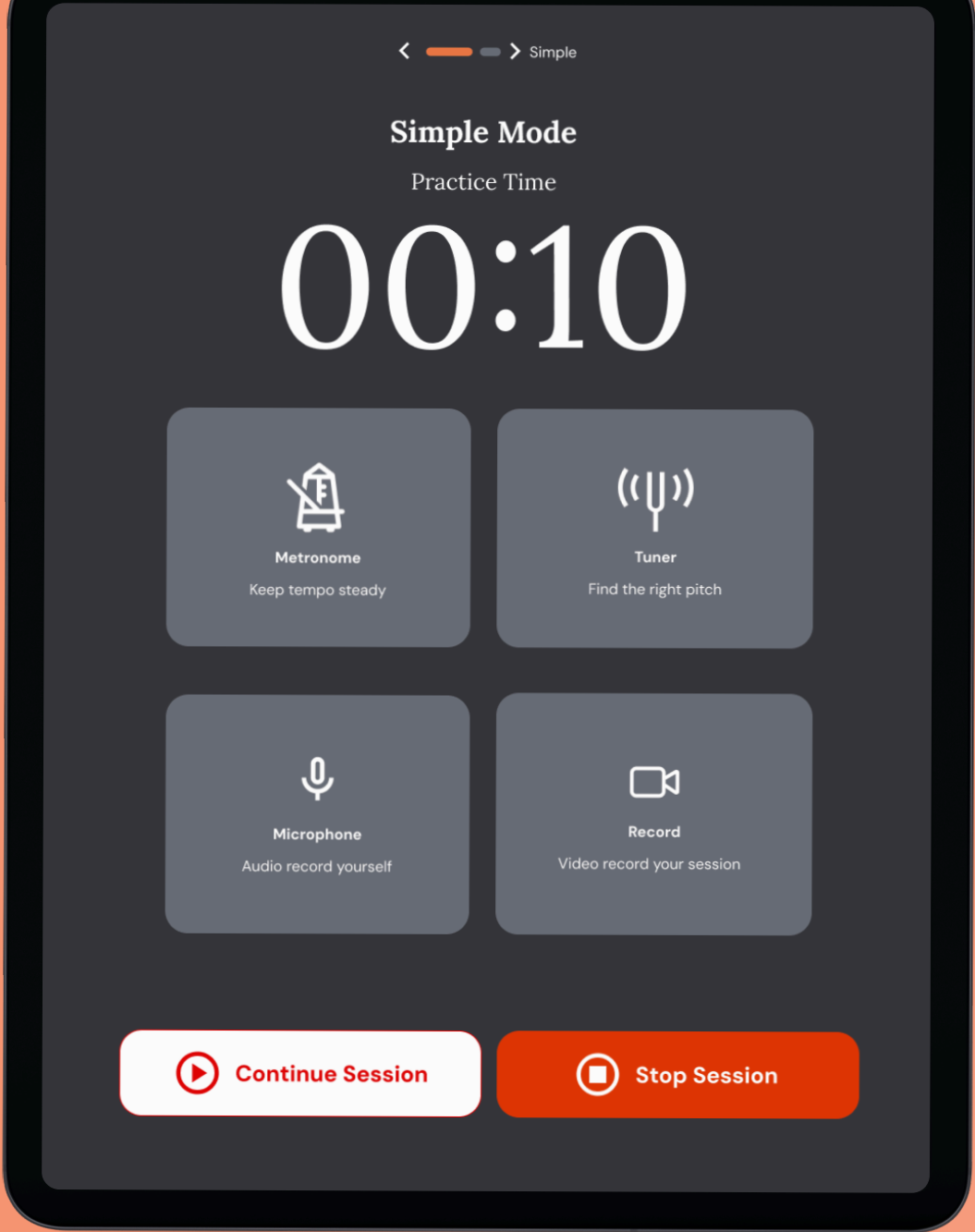
🎵 Define

🎵 Ideate

🎵 Prototype

🎵 Testing

🎵 Designs



Meet the Team: *Ensemble Design* ✨



Karla Santamaria

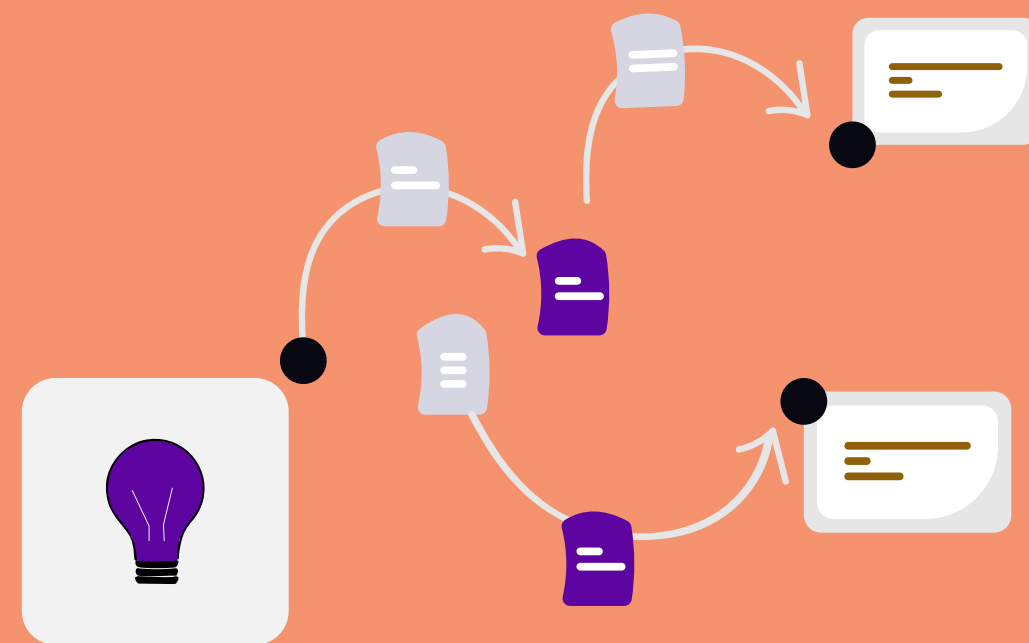


Nállely Martínez Almonte



Beth Callen

Overview



The issue?

As a music student, learning and practicing tools are scattered across different apps or physical materials.



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- **Staying organized with their sheet music**



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- **Staying organized with their sheet music**
- **Tracking their progress and practice habits**



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As a music student, learning and practicing tools are scattered across different apps or physical materials.

- **Staying organized with their sheet music**
- **Tracking their progress and practice habits**
- **Accessing tools quickly during practice**



The issue?

As a music student, learning and practicing tools are scattered across different apps or physical materials.

- **Staying organized with their sheet music**
- **Tracking their progress and practice habits**
- **Accessing tools quickly during practice**
- **Staying motivated or consistent over time**



The issue?

Everything is scattered across different apps or physical materials

This leads to inefficient practice sessions and slower improvement.



Overview



Define

Ideate

Prototype

Testing

Designs

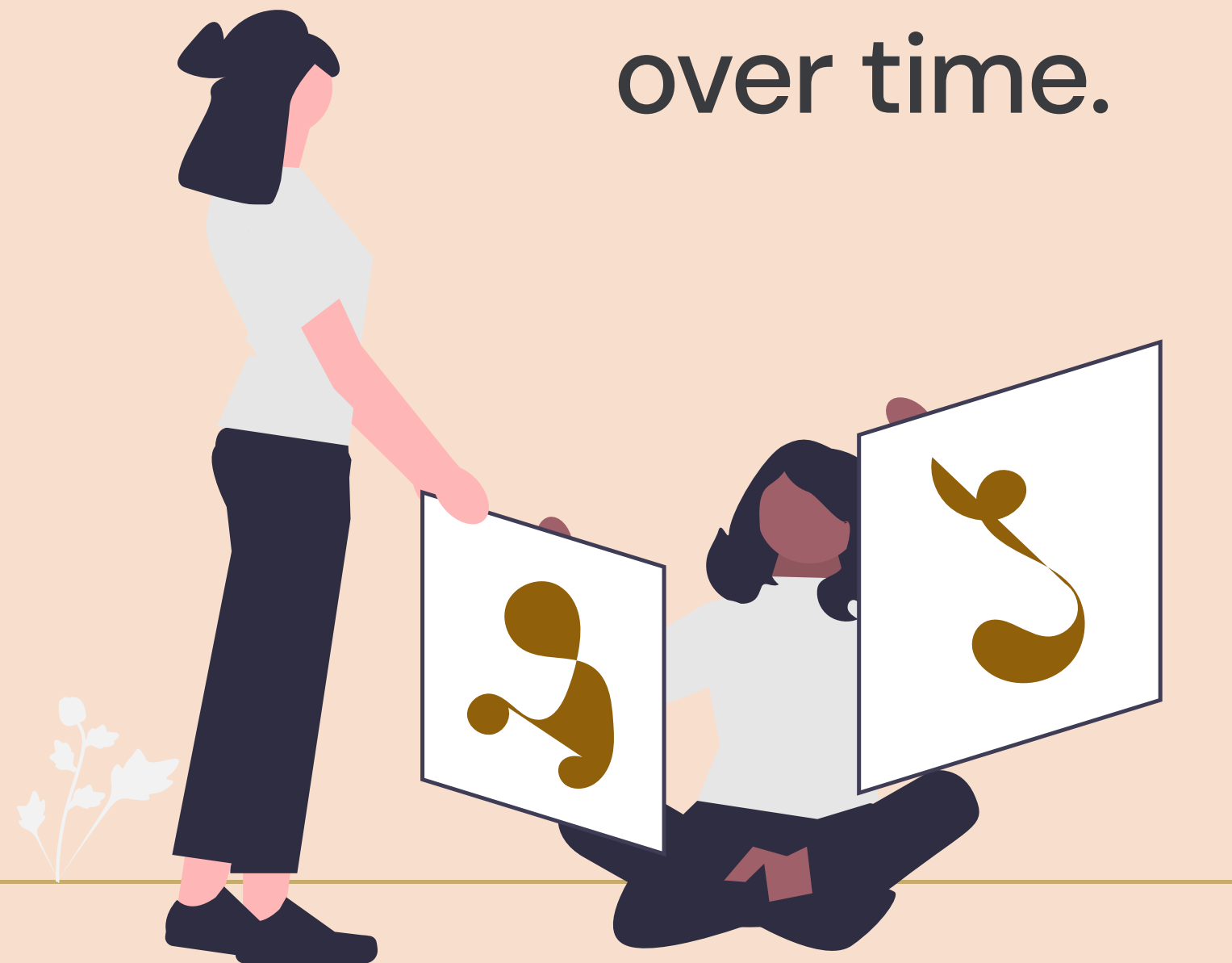
Defining the Problem



Defining the Problem

Music students lack a centralized place to organize their sheet music, tools, and assignments.

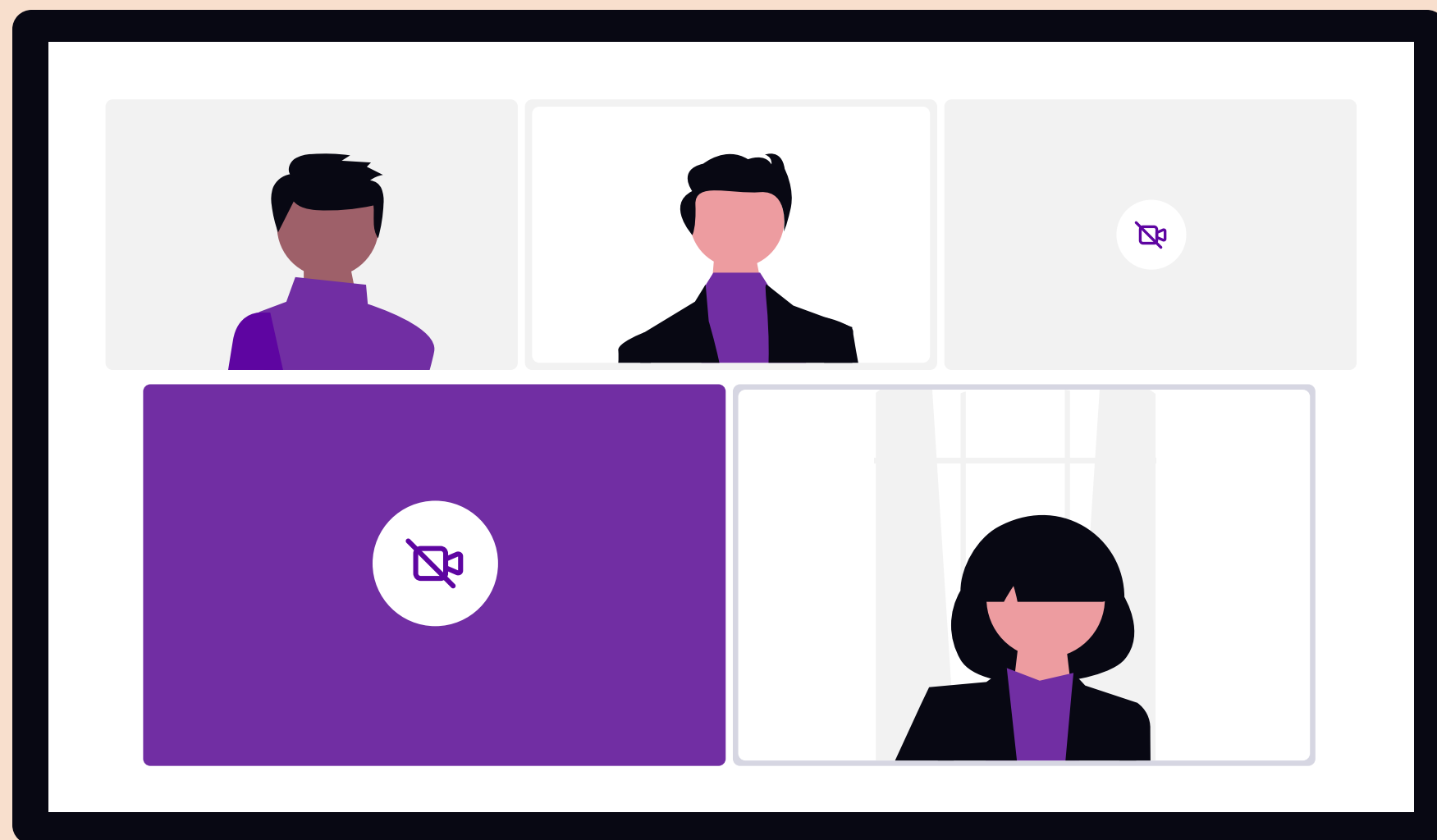
As a result, practice sessions become scattered and inefficient, making it harder for students to stay focused, build consistency, and track their progress over time.



So, we ask ourselves...

**“How might we create a system
that helps students stay
organized and focused during
practice?”**

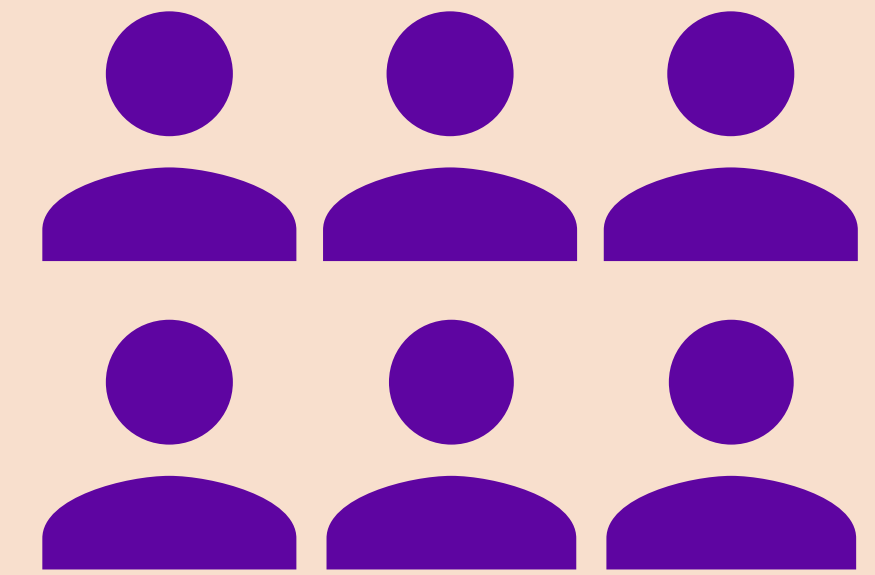
Going straight to the source . . .



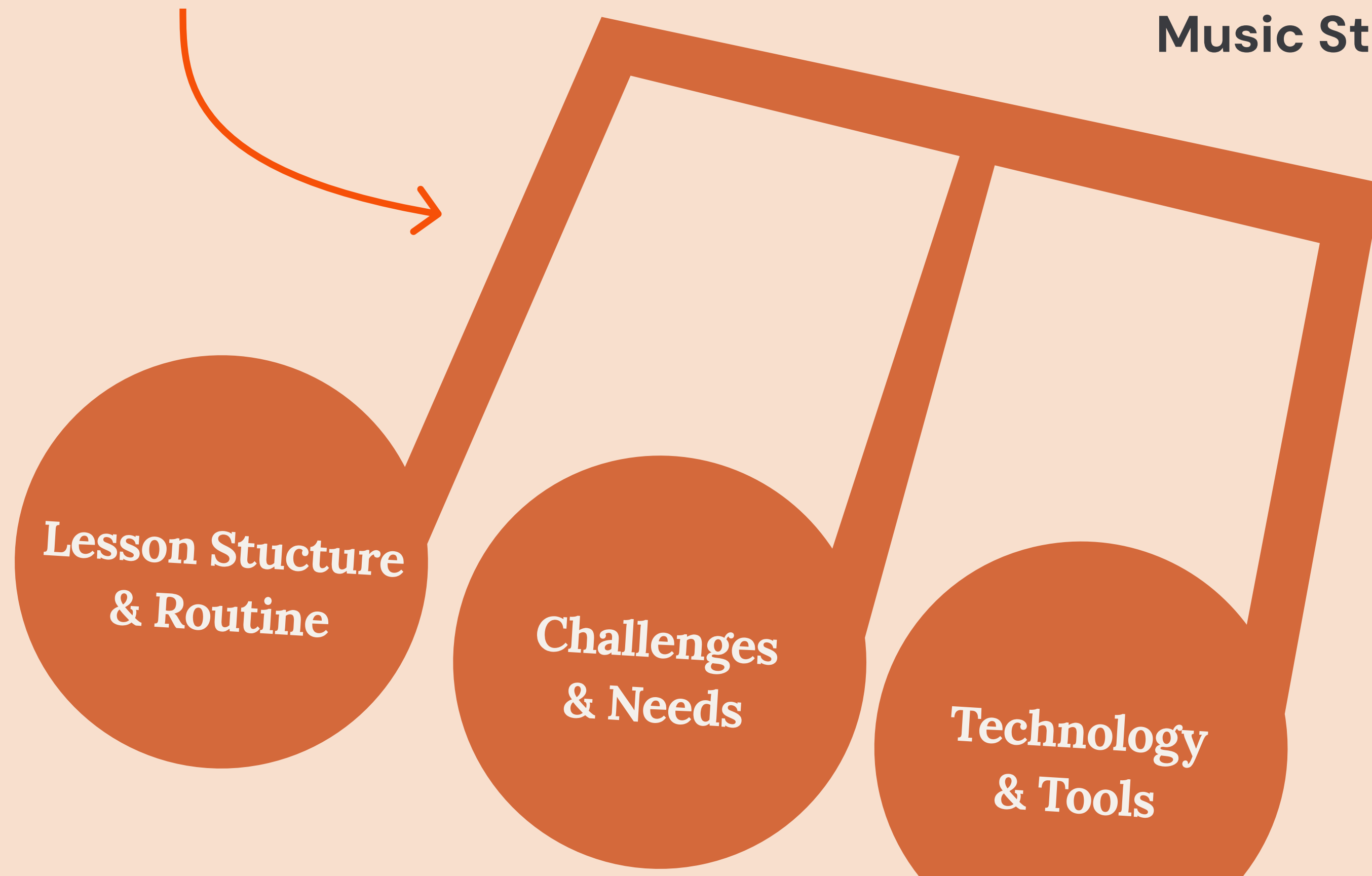
Asking musically-talented
folks about their experiences
with all things learning

We interviewed 6 people involved in music

Here's what we asked them about!



- Music Students
- Music Teachers
- Parents of Music Students



The Scope

From talking to students, teachers, and reviewing existing solutions, we found that:

1. Students want a single place where everything lives
2. Motivation drops when progress isn't visible
3. Practice feels overwhelming without clear structure
4. Sheet music gets lost, damaged, or is hard to find when switching pieces
5. Existing tools are either too advanced, too limited, or don't integrate well together



Insight 1

Lack of organization & progress tracking

There was a consistent theme of difficulty keeping track of practice notes, sheet music, or progress.

“I get overwhelmed and have a lot of trouble managing updated sheet music, keeping practice notes organized, and lesson scheduling.”

Insight 2

Difficulty finding motivation & consistency

Students (especially self-directed ones) often lack accountability without external deadlines.

“I guess having a dedicated time to practice is a challenge because I don't have any pressure. Only when I have a show or something. But if there's no incentive I might not practice as much as I should.”

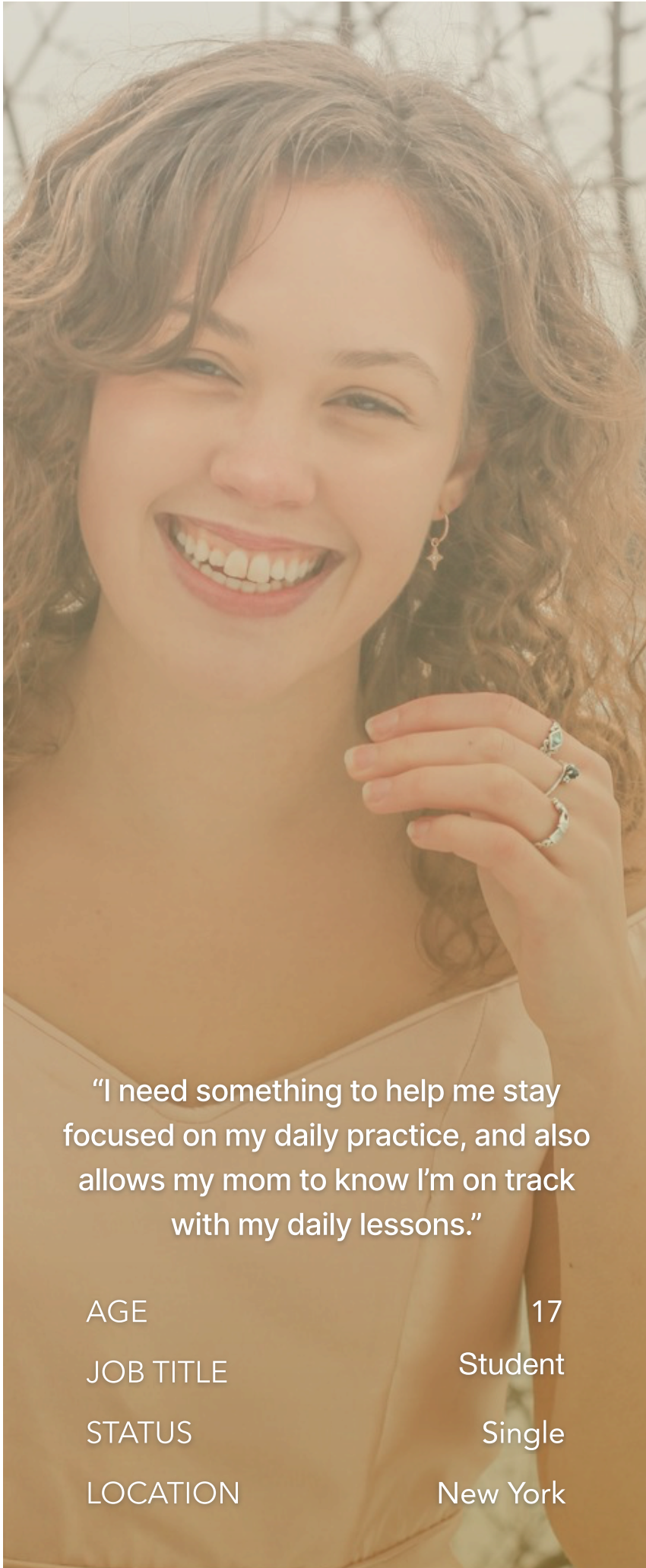
Insight 3

Varied tool usage

A mix of analog and digital methods are used– meaning they have to rely on many tools for practicing

“My written music is on paper, but is usually scanned as a PDF. I send out sheet music, links, videos, and practice notes so I jump around between different places often.”

Meet Jazmine! (+ her former co-users)



“I need something to help me stay focused on my daily practice, and also allows my mom to know I’m on track with my daily lessons.”

AGE 17
JOB TITLE Student
STATUS Single
LOCATION New York

#CreativeSoul
#MusicLearning
#PracticeStruggles

Jazmin Matthews

USER PERSONA

ABOUT

Jazmin Matthews is a junior in high school who plays the violin. She’s very dedicated to music, as she wishes to attend Juilliard for college. She practices every day and her favorite genre to play is classical music.

PREFERENCES

- Games
- Being the top of her class
- Music Playlists
- Violin
- Current Music lessons

WANTS & NEEDS

- Practice scheduler with customizable reminders
- “App lock” mode that prevents distractions until practice goal is hit
- Practice scheduler with customizable reminders

KNOWN HABITS

- Watches YouTube/IG clips and copies techniques
- Records teacher demos on phone
- Practices more when an assessment, performance, or practice session is near

PAIN POINTS

- Blurry PDFs and unclear scans and slow wifi
- Apps that send too many notifications
- Is easily distracted due to lack of teacher engagement

FAVORITE APPS



“If I had a calendar that already knew what my child should practice tomorrow, it would make everything easier.”

AGE 44
JOB TITLE Product Manager
STATUS Married
LOCATION Los Angeles

#CalendarPlease
#PracticeSupport
#MusicforConnection

Maria Clements

USER PERSONA

ABOUT

Maria is a working mother of three, balancing a demanding job with her family’s busy schedule. Her oldest recently began pursuing music more seriously, adding lessons and practice sessions to her routine. Maria values structure and wants a simple way to track goals, review teacher notes, and stay engaged in her child’s progress without adding more to her plate.

WANTS & NEEDS

- Reliable system (physical or digital) to avoid misplaced papers/pamphlets.
- Communication with Teacher, Direct, ongoing updates so they know what to reinforce at home.

KNOWN HABITS

- Helps Organize Materials → Keeps a folder or notebook for their child’s music, though papers still get misplaced.
- Leans on Digital Backups → Turns to PDFs or teacher’s shared files when physical pamphlets are lost.

PREFERENCES

- Music as Bonding
- Easy Communication
- Progress Tracking
- Structured Guidance
- Minimal Complexity

PAIN POINTS

- Child sometimes unmotivated
- Needs clearer structure from teacher (practice goals, schedules)
- Finds managing child’s schedule with her own overwhelming

FAVORITE APPS



#TeachThroughVibes
#StudentBreakthroughs
#PaperworkOverload

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Danny teaches classes of to multiple students one-on-one, and group classes across multiple instruments. He values human connection and repeatable musical experiences that build community. He keeps paper notes, grade books, and simple spreadsheets but is open to digital tools that actually save time.

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- Clear dashboards that show who needs help
- Easy distribution of the newest sheet music
- Tools that work on school iPads

KNOWN HABITS

- Reuses core repertoire to reinforce learning
- Shares occasional videos/playlists for reference
- Gives quick in-class checks instead of long written homework

PREFERENCES

- Easy Ability to Scan Music
- Tracking Student Practice
- Reminders for Students
- App Lock Mode
- Community Building

PAIN POINTS

- Hard to track individual progress across large classes and give personal feedback
- Class time gets eaten by logistics (who practiced, who has music)
- Phone use distracts students
- Paperwork is “the hardest part” (scattered notes, Dropbox updates, etc.).

FAVORITE APPS



As a student, I need a way to stay focused and keep all my sheet music and assignments organized so I can make the most of my practice time.

#CreativeSoul
#MusicLearning
#PracticeStruggles

USER PERSONA

Jazmin Matthews

ABOUT

Jazmin Matthews is a junior in high school who plays the violin. She's very dedicated to music, as she wishes to attend Juilliard for college. She practices every day and her favorite genre to play is classical music.

PREFERENCES

Glasses
Braid the top of her ears
Music Playlists
Violin
Current Music lessons

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- Practice scheduler with customizable reminders
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FAVORITE APPS



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organized and focused
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Overview

Define

 **Ideate**

Prototype

Testing

Designs

Ideate

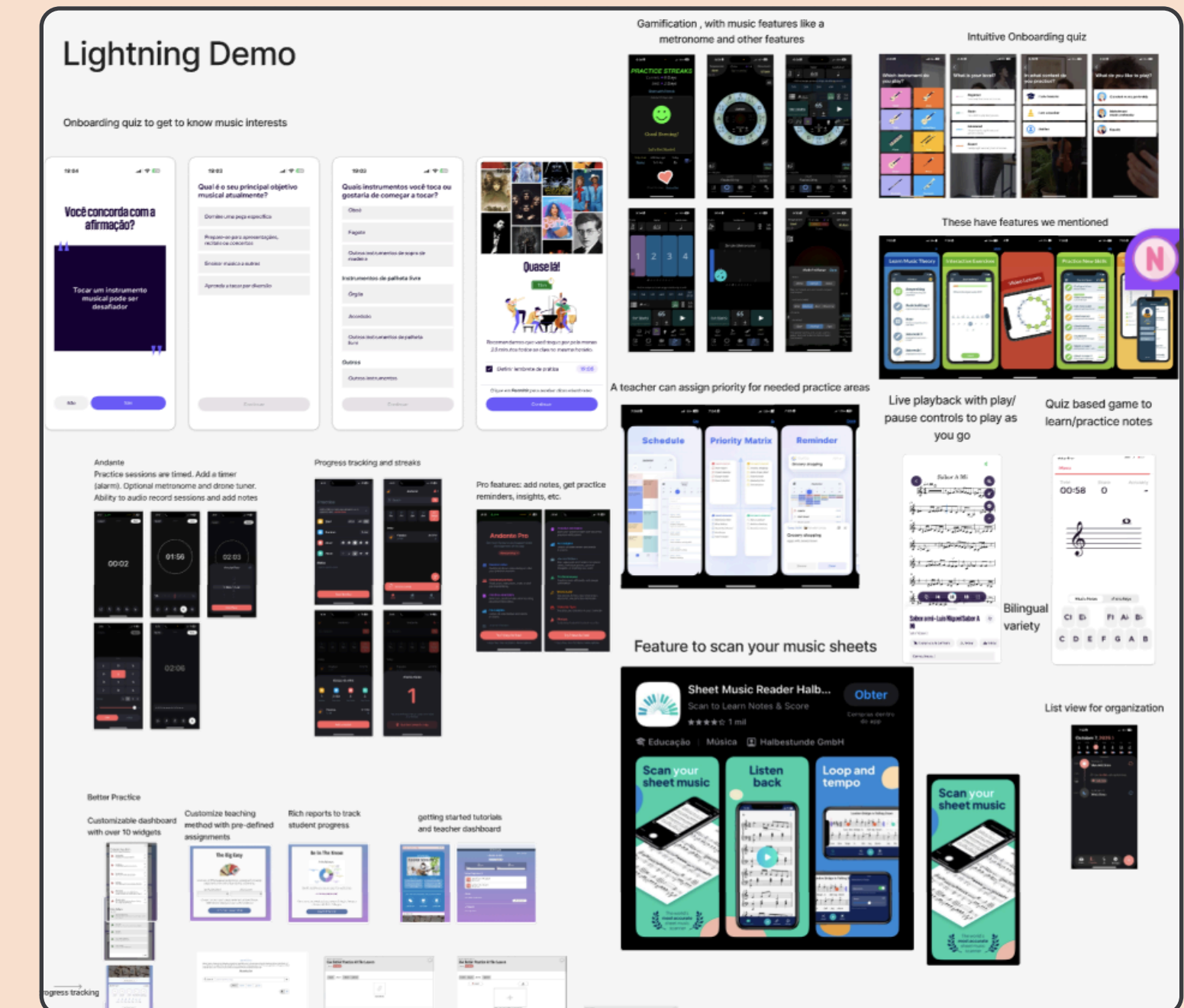


Research & Brainstorming

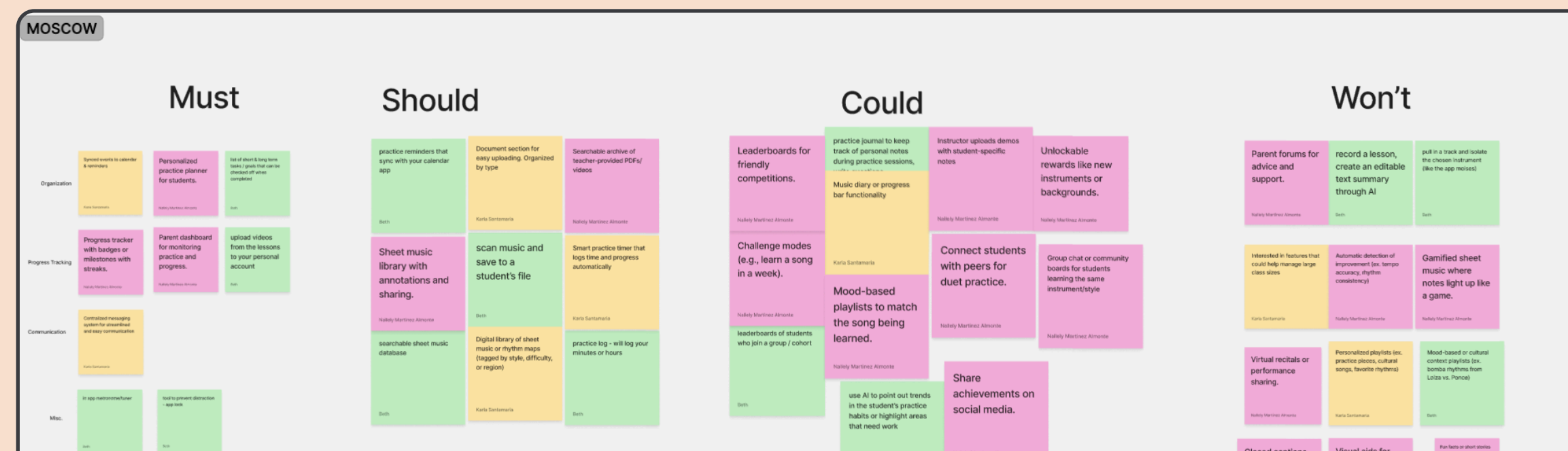
Competitive analysis

Features by Platform	Lessonface	Class Dojo	Tonara	Practice Space	Vivid Practice	Andante	YouTube
Teacher Marketplace							
Studio Administration							
Parent Communication							
Teacher Assignments							
Practice Motivation							
Student Practice Tracking							
Built-in Practice Tools							
Content Library							
User: Student							
User: Teacher							
User: Parent							

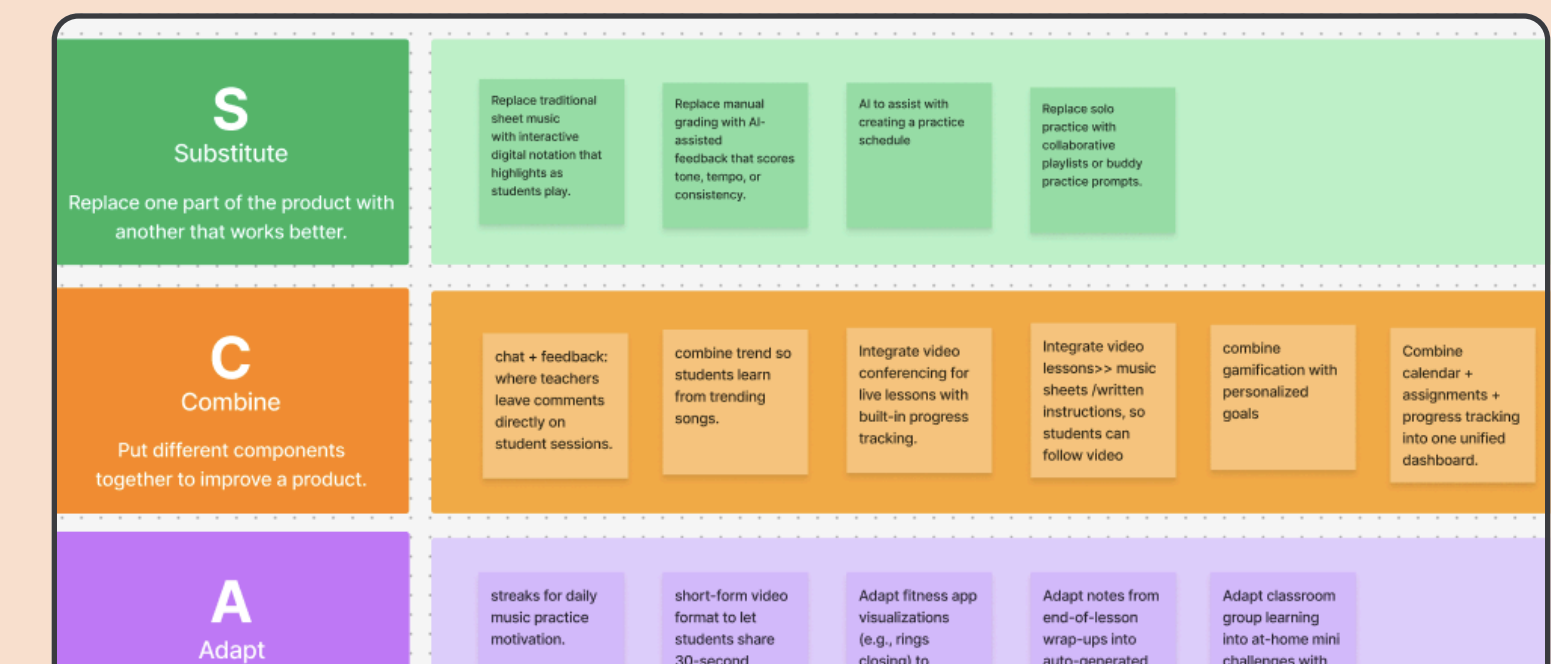
Lightning Demos



Moscow



Scamper



Key insights

Tracking & Tools

A way for students to *log* their work *do* the work simultaneously without leaving the app

Sheet Music Library

For easy access to lesson materials so students and teachers can bet on the same page

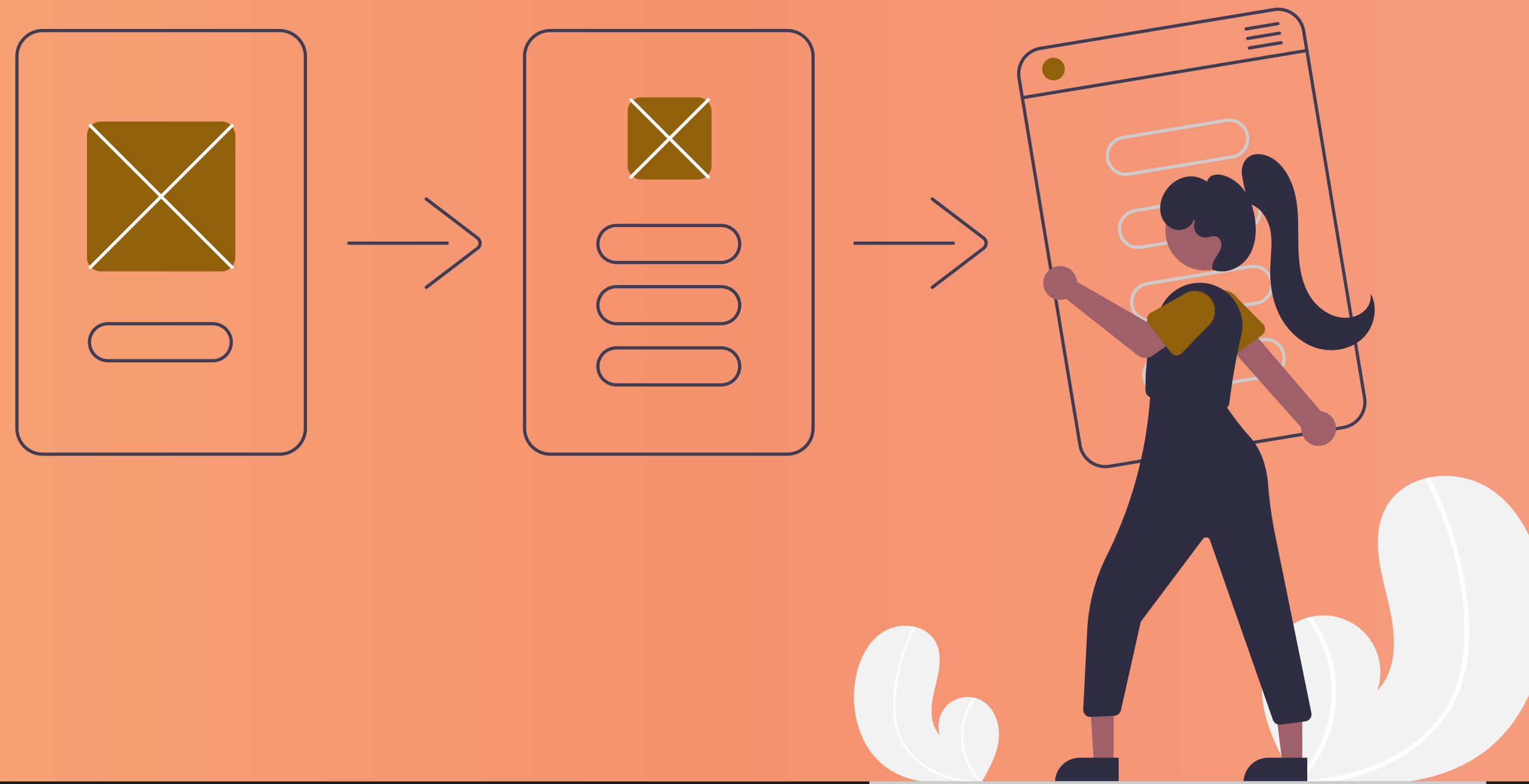
Practice Motivation

A system like rings or streaks to keep students engaged and motivated

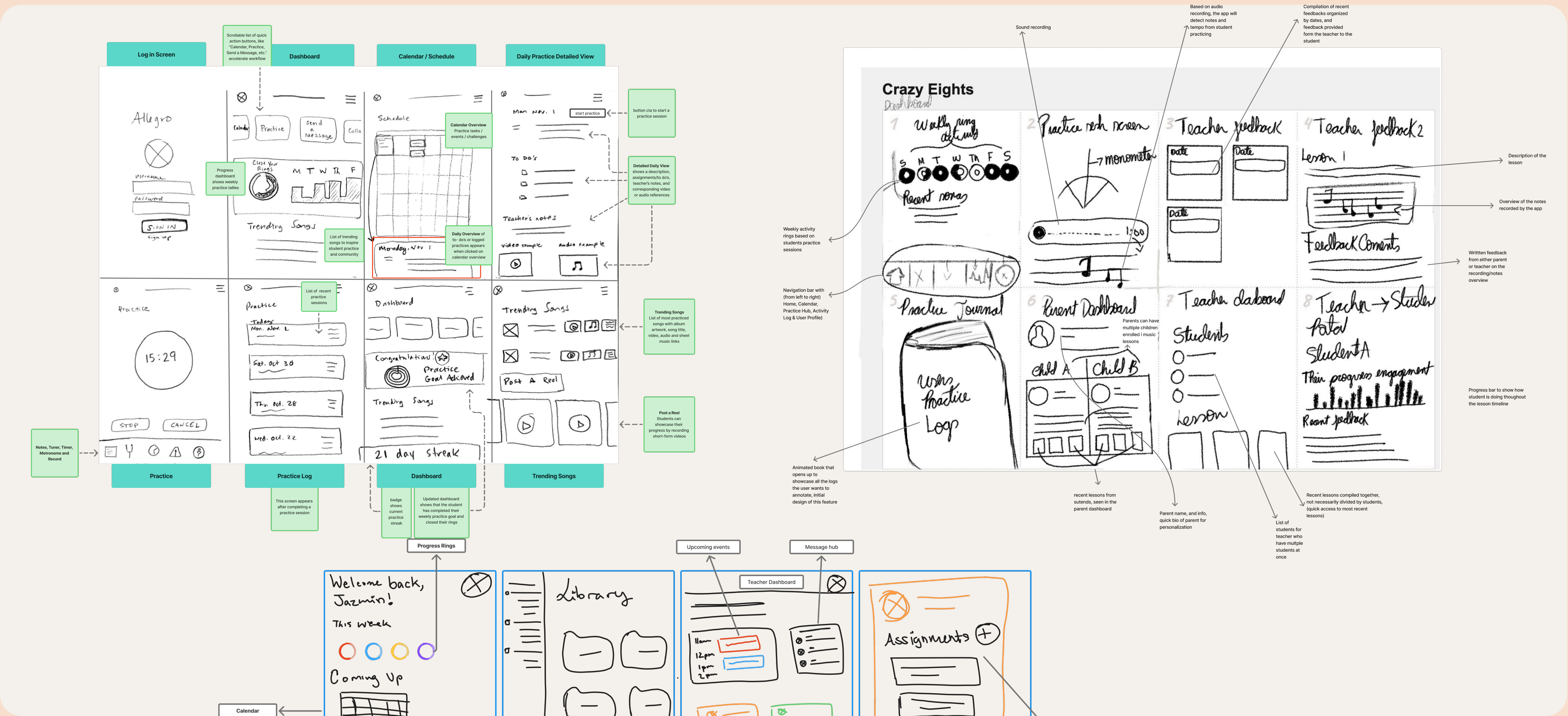
Smart Assignments

Detailed assignments with attachments like mp3s, videos, notes, and sheet music.

Visualizing What Looks Good



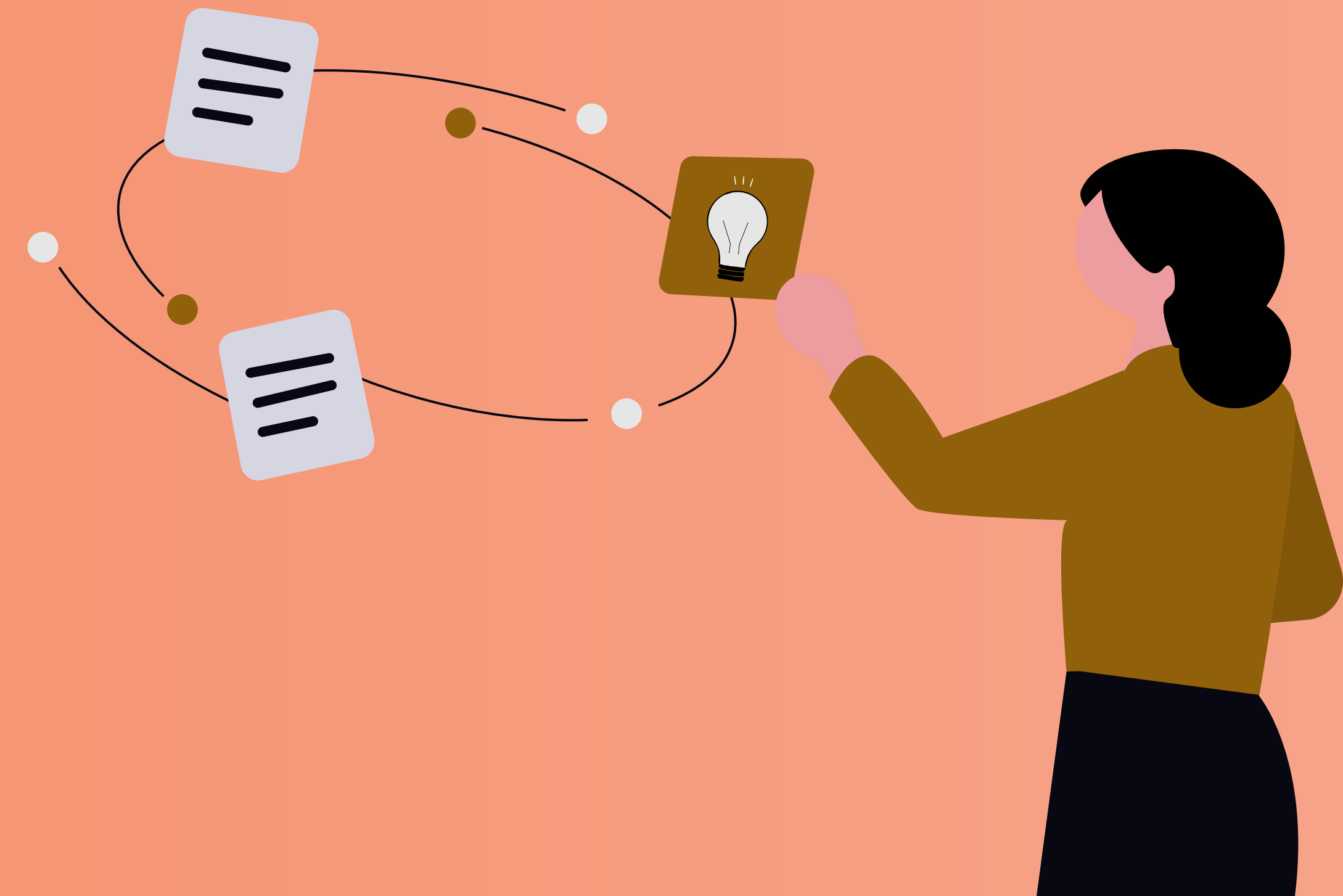
We Created Some Sketches





Then turned them into mid-fi. . .

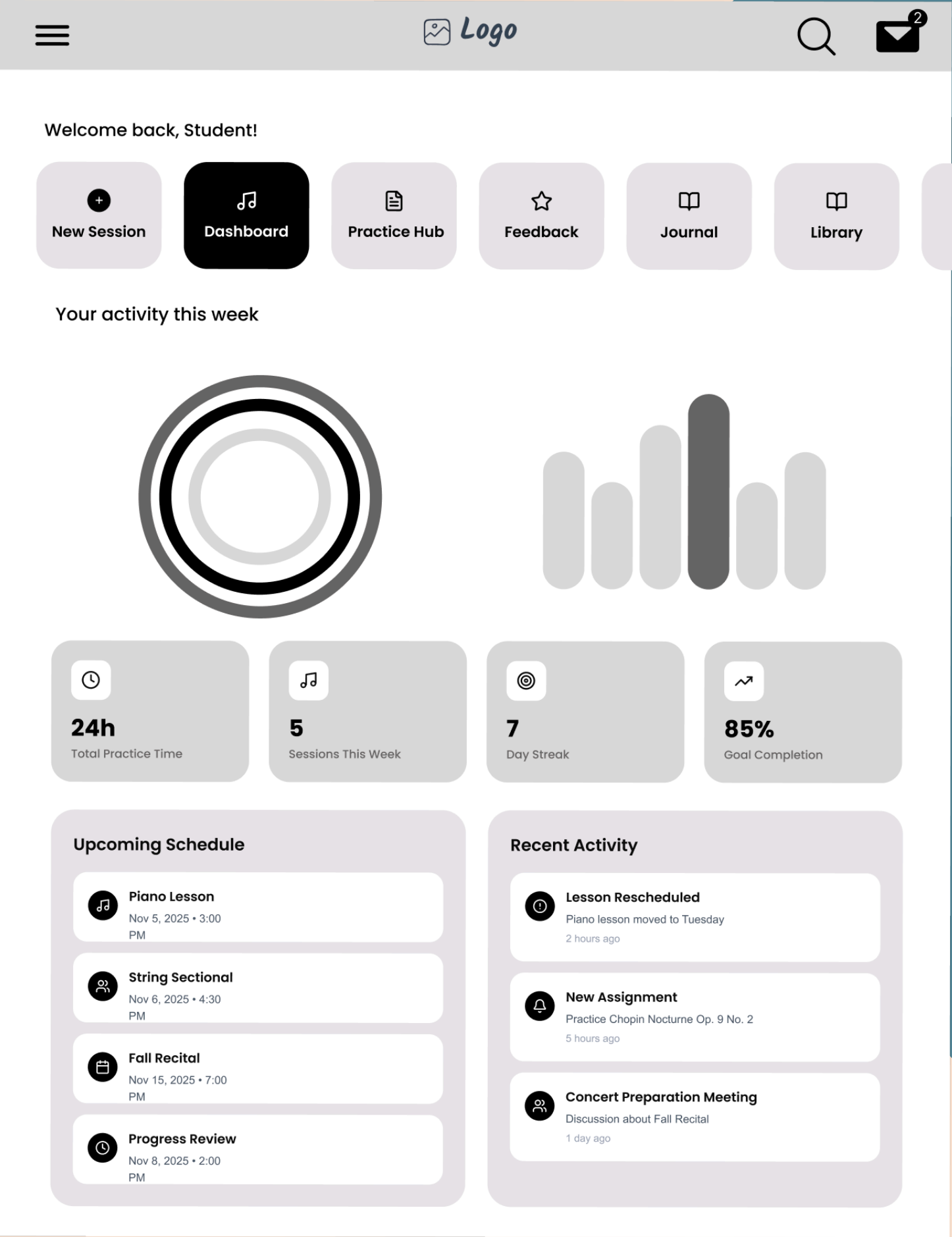
Test and Iterate



Improvement 1

Simplifying The Interface

Before

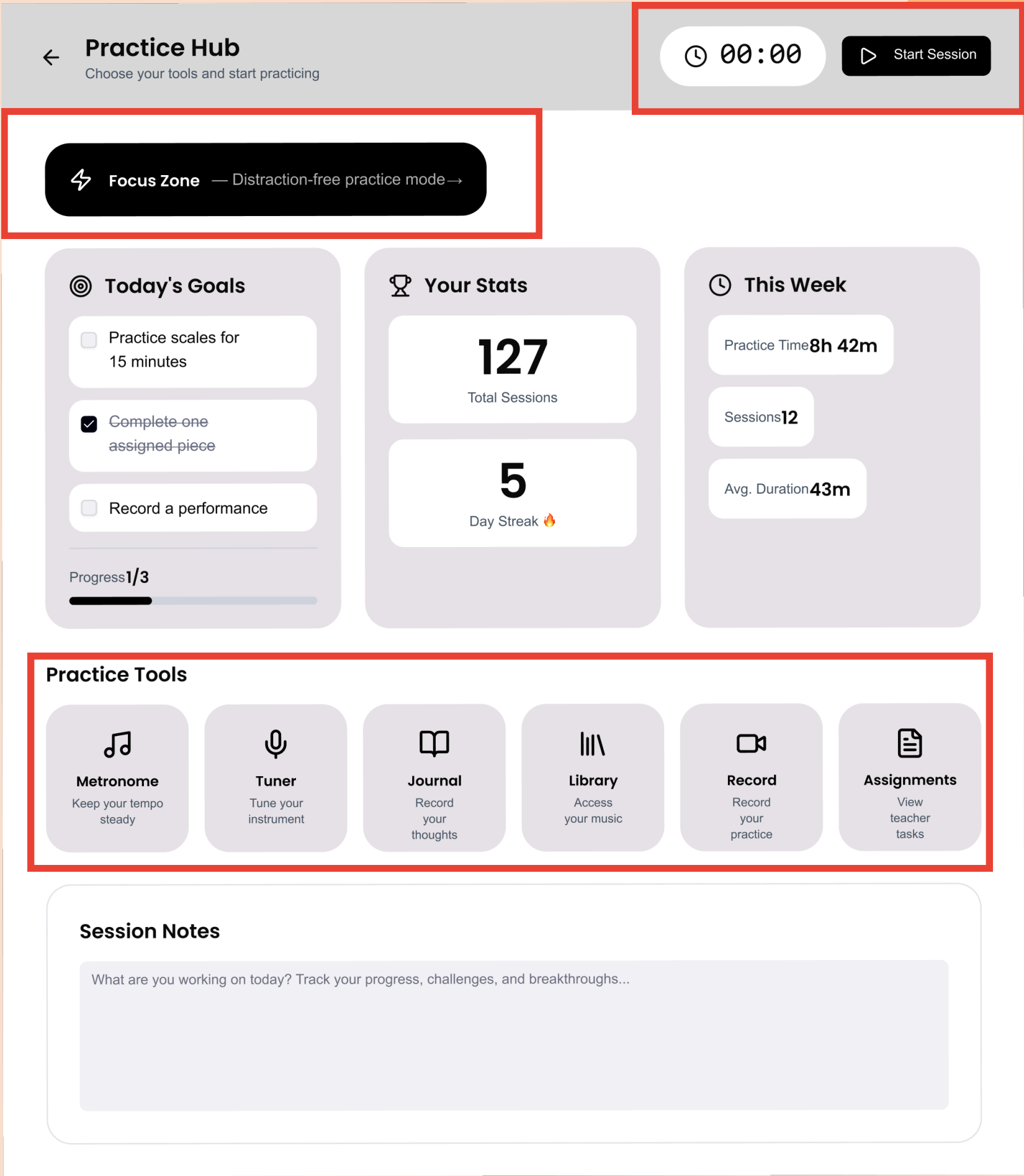


After

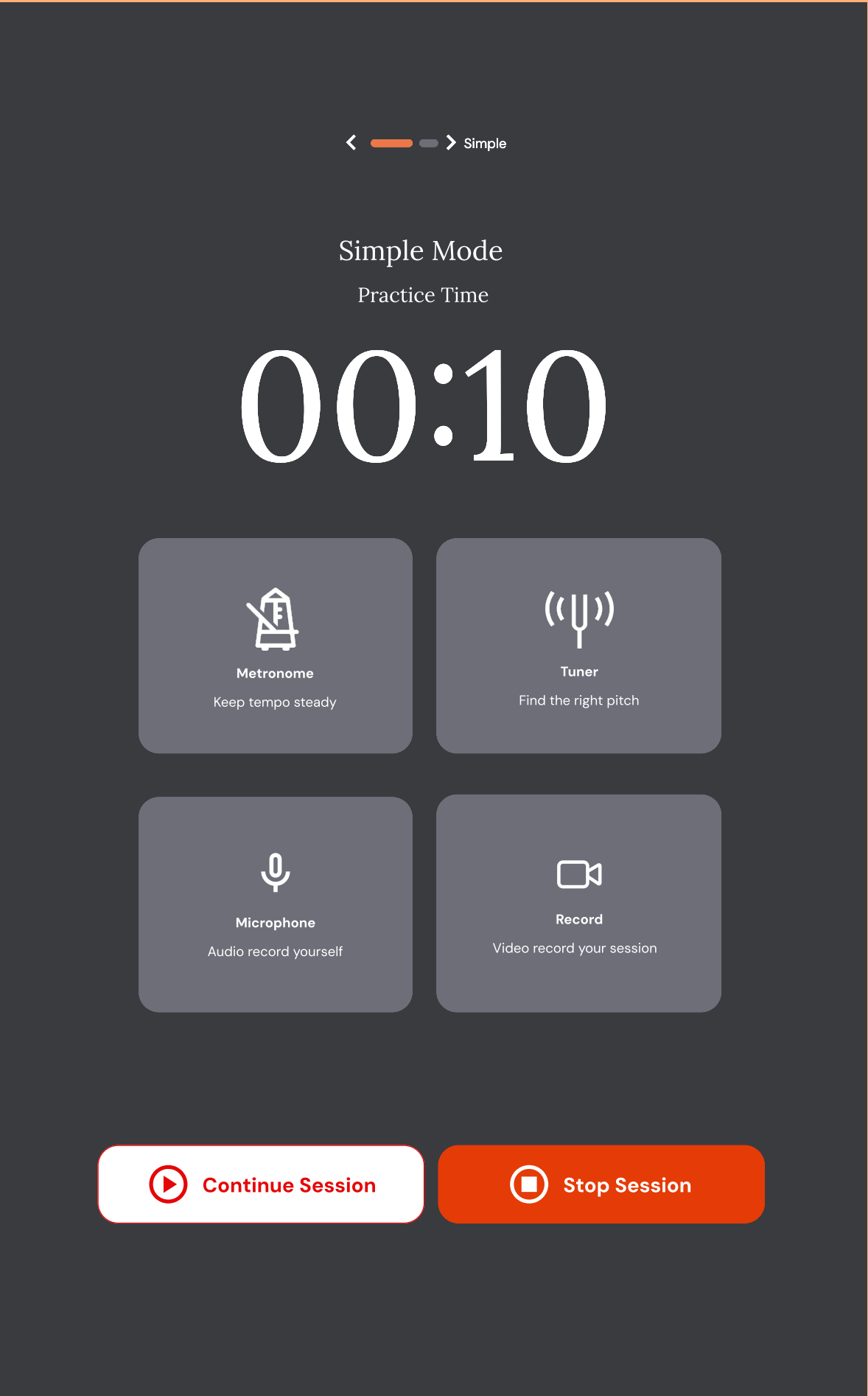


Matching Feature Location with Mental Mapping

Before



After



Designs



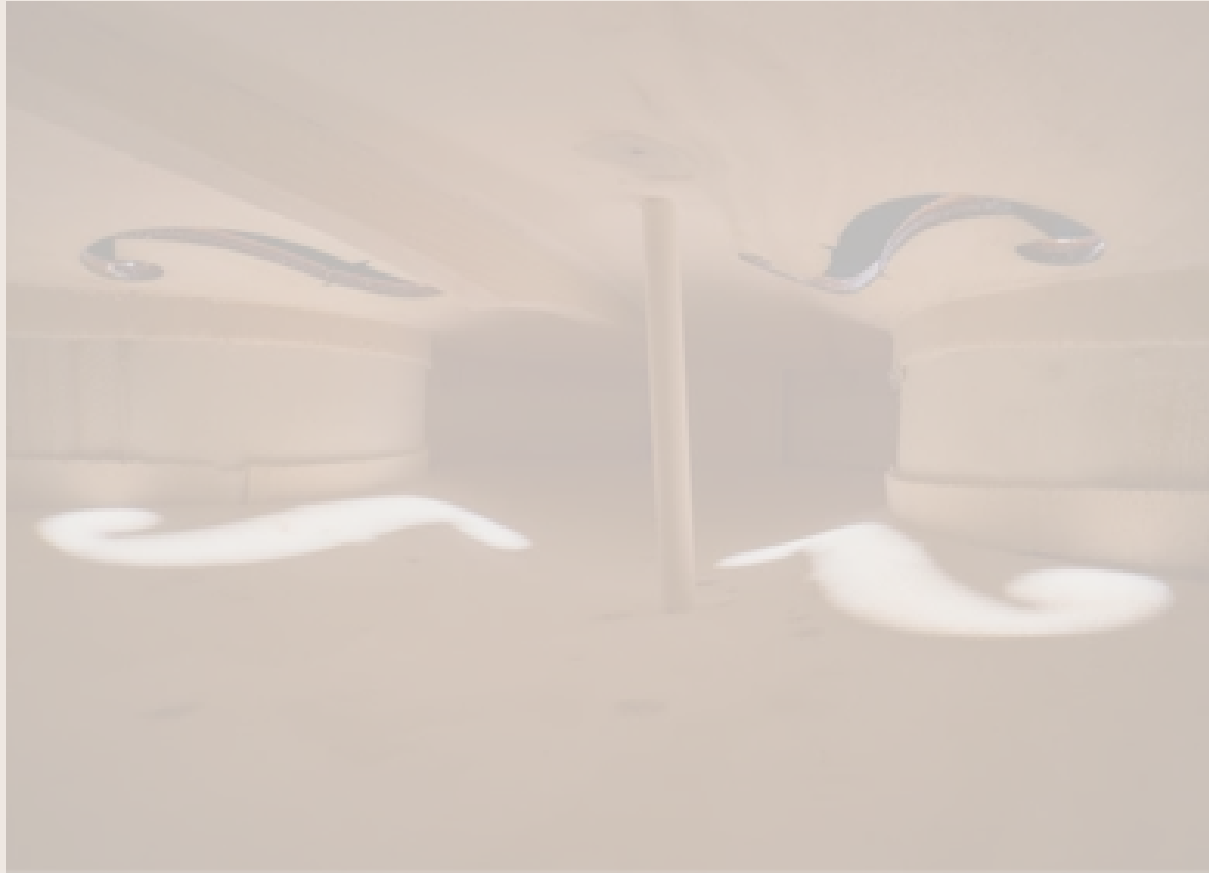
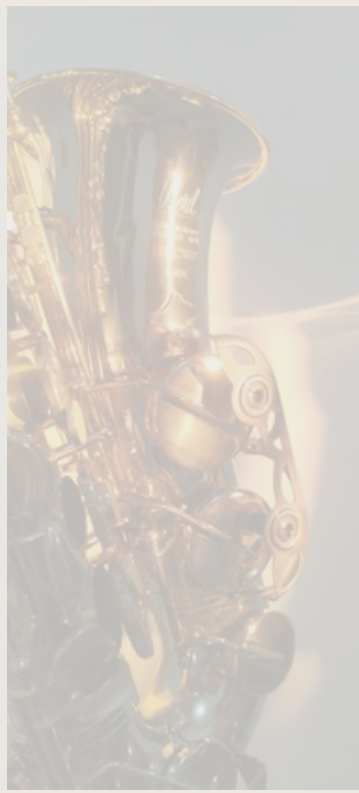


“Allegro”

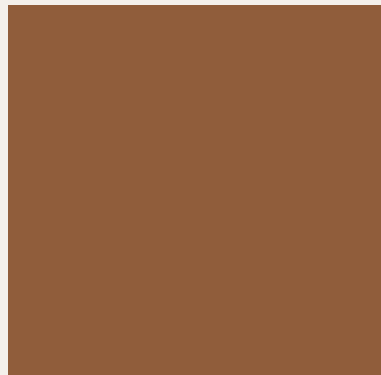


The word **allegro** comes from Italian, meaning "**lively**," "**cheerful**," or "**brisk**," ultimately derived from the Latin word **alacer**, and entered English as a musical term for a fast, upbeat tempo.

It describes **music** that is **fast and bright**, reflecting the Italian sense of **joy**, and also refers to the fast, agile movements in ballet.



moodboard



Allegro

Music platform for students, teachers, and parents (coming soon)

Style guide

Colors

Brand

rgb(255, 107, 0)

#FF6B00

Secondary

rgb(245, 182, 81)

#F5B651

Accent

rgb(144, 94, 59)

#905E3B

Neutral

rgb(244, 241, 235)

#F4F1EB

Neutral 2

rgba(58,59,64,1)

#3A3B40

White

rgb(255, 255, 255)

#FFFFFF

Success

rgb(255,1 07, 0)

#FF6B00

Error

rgb(255, 0, 0)

#F5B651

Warning

rgb(167, 132, 6)

#A78406

Typography

Aa

DM Sans

DM Sans is the primary font for Allegro.

Body Regular

Body Grey

Typography

Aa

Lora

Lora is the primary font for Allegro.

Heading 1 Semibold

Heading 2

Padding

Internal spacing units used to create consistent padding within components and containers.

tight | 8px

normal | 16px

loose | 24px

sm | 32px

md | 48px

lg | 64px

Border Radius

Border radius values used to create consistent corner rounding across the interface elements.

none | 0px

sm | 4px

md | 8px

lg | 16px

xl | 24px

circle | 50px

pill | 9999px

Spacing

Base spacing units used throughout the system for consistent spacing between elements and components.

2xs | 4px

xs | 8px

sm | 16px

md | 24px

lg | 32px

xl | 40px

2xl | 48px

3xl | 64px

4xl | 80px

Messages

Cancel

Streak

Stop

Navigation

Open Folder

Checkmark

Search

Celebration

Metronome

Video-Record

Feedback

Assignments

Library

Ring

Notification

Tuner

Checkmark

Search

Add

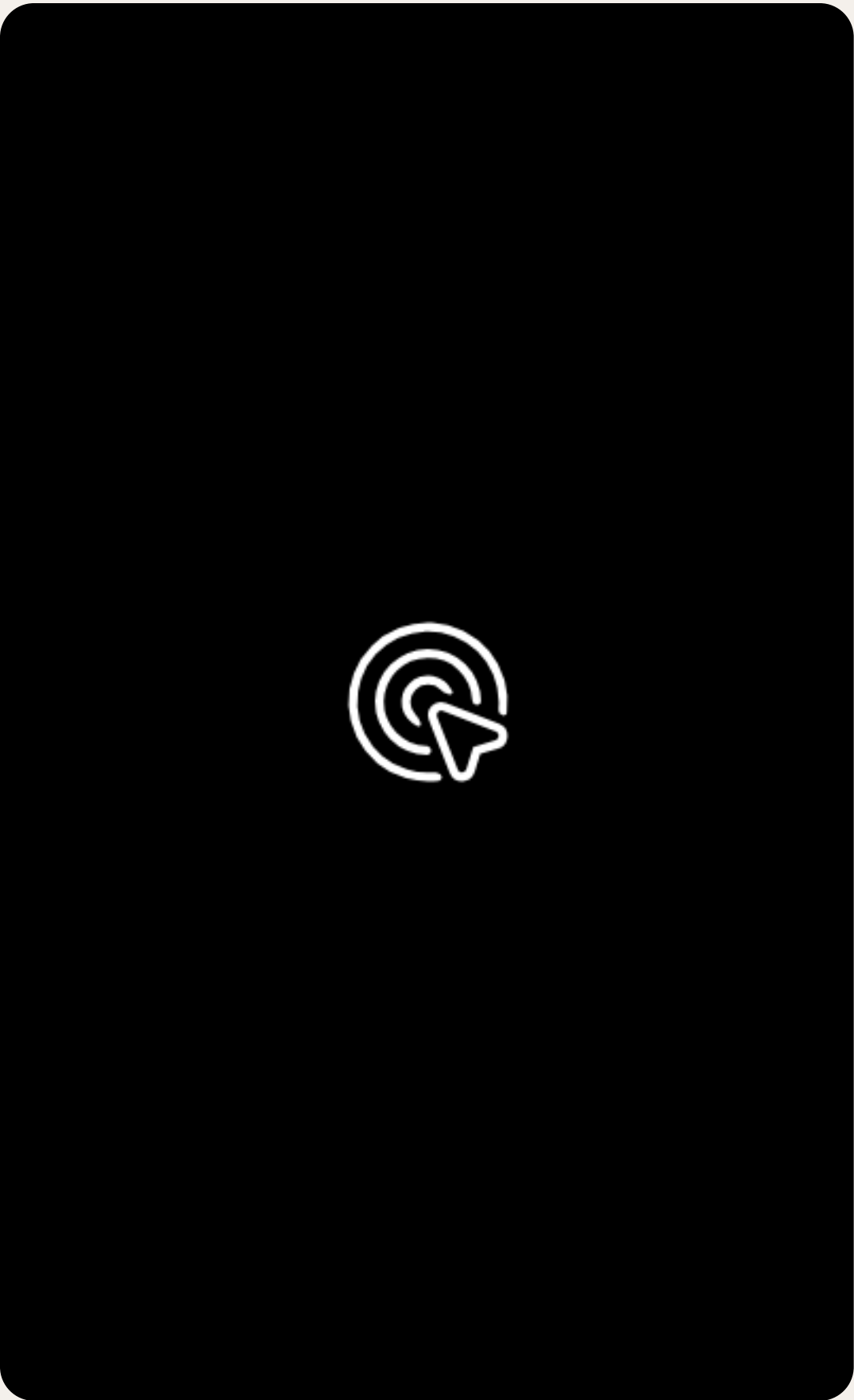
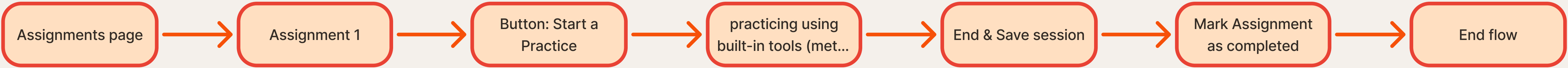
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Our MVP — 3 Core Flows

Flow 1

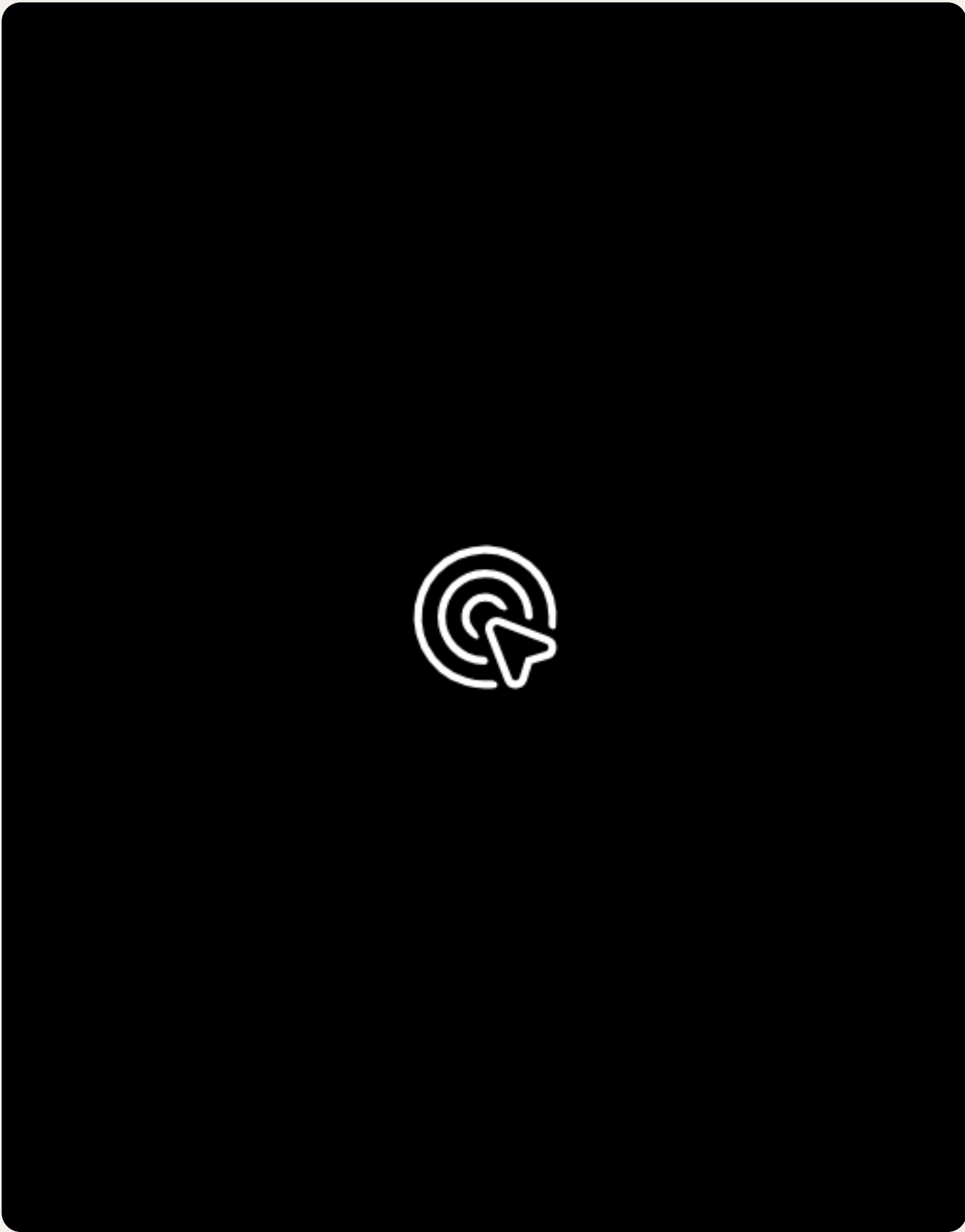
View assignments



Our MVP — 3 Core Flows

Flow 2

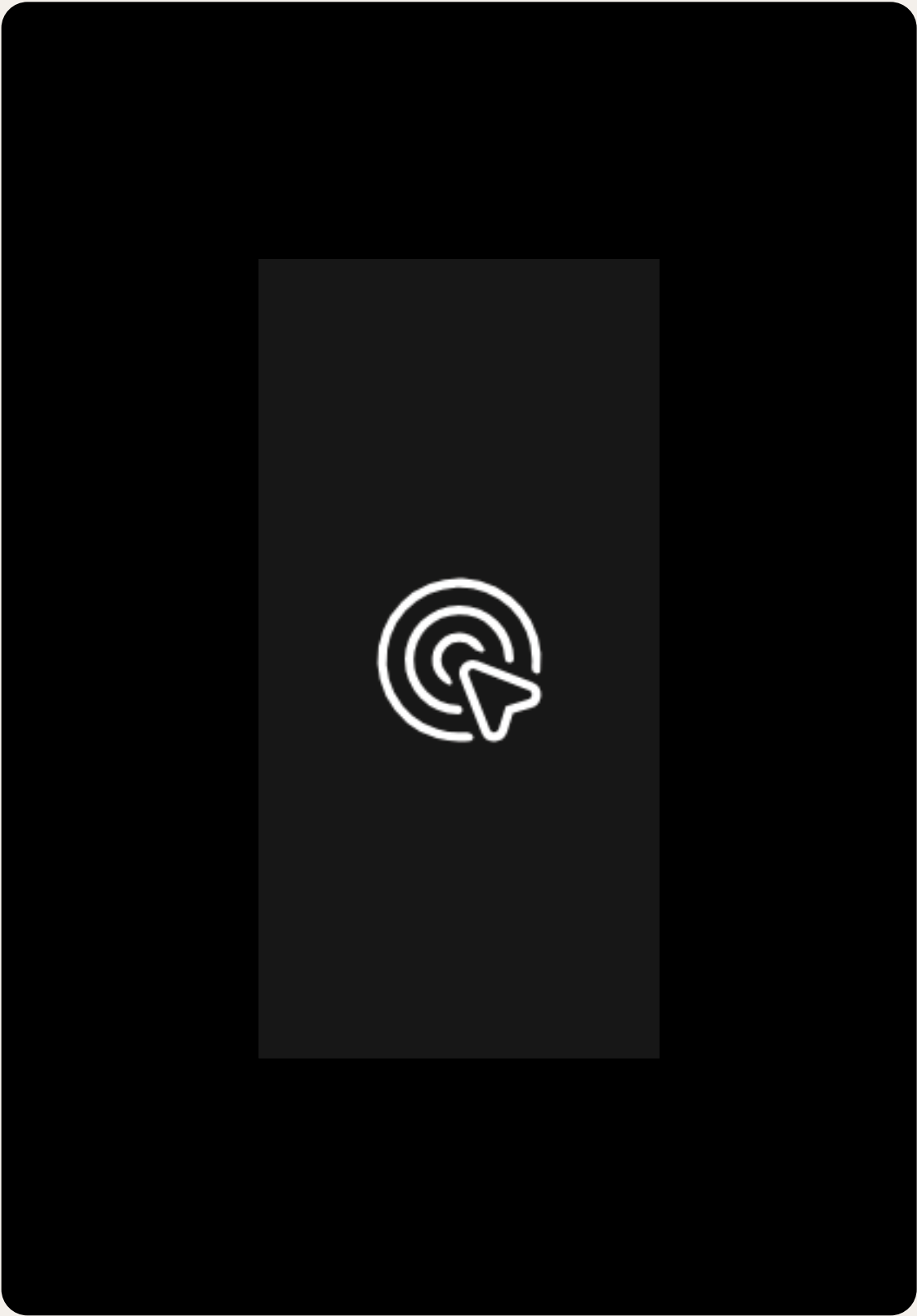
Upload music to your sheet music library



Our MVP — 3 Core Flows

Flow 3

Access the practice hub and start a practice session



Final prototype



Practice modes

Simple mode

- ▶ in-session practice tools
- ▶ timed, distraction free session
- ▶ simple swipe to switch modes



Sheet music mode



Conga del Fuego Nuevo

Casi Conga ♩ = 130

8

12 **A** *ff* *mf* *ff*

21 *mf* *mf* *arco*

29 **B** *f* *ff* *mp* *f* *pizz*

37 *p* *ff*

45 **C** *mp* *ff*

52

59 **D** *f*

66




73 **E** *f*

81



Stop Session

Dashboard


Progress Tracking

-  Rings show progress towards practice goals
-  Streaks for motivation
-  Quickly view schedule and assignments

A

 4 

Welcome back, Student!


 Current Day Streak

4

Practice Stats

This Week

All Time



Average Practice Time

27min/day

goal: 40min/day

Sessions

4/7

Completed Assignments

1/3

Average Practice Time

32min/day

Sessions

84

Completed Assignments

146

Upcoming Schedule

This Week's Assignments

<

December 2025

>

M	Tu	W	Th	F	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Thursday, December 4, 2025

9:00am

Piano Lesson

1 hr


Completed

3:00pm

Guitar Practice

45 min

Upcoming

 Reading Rhythm pg. 14

Due: Dec. 14

Play at 70bpm with the metronome

Content Library

Sheet Music Library



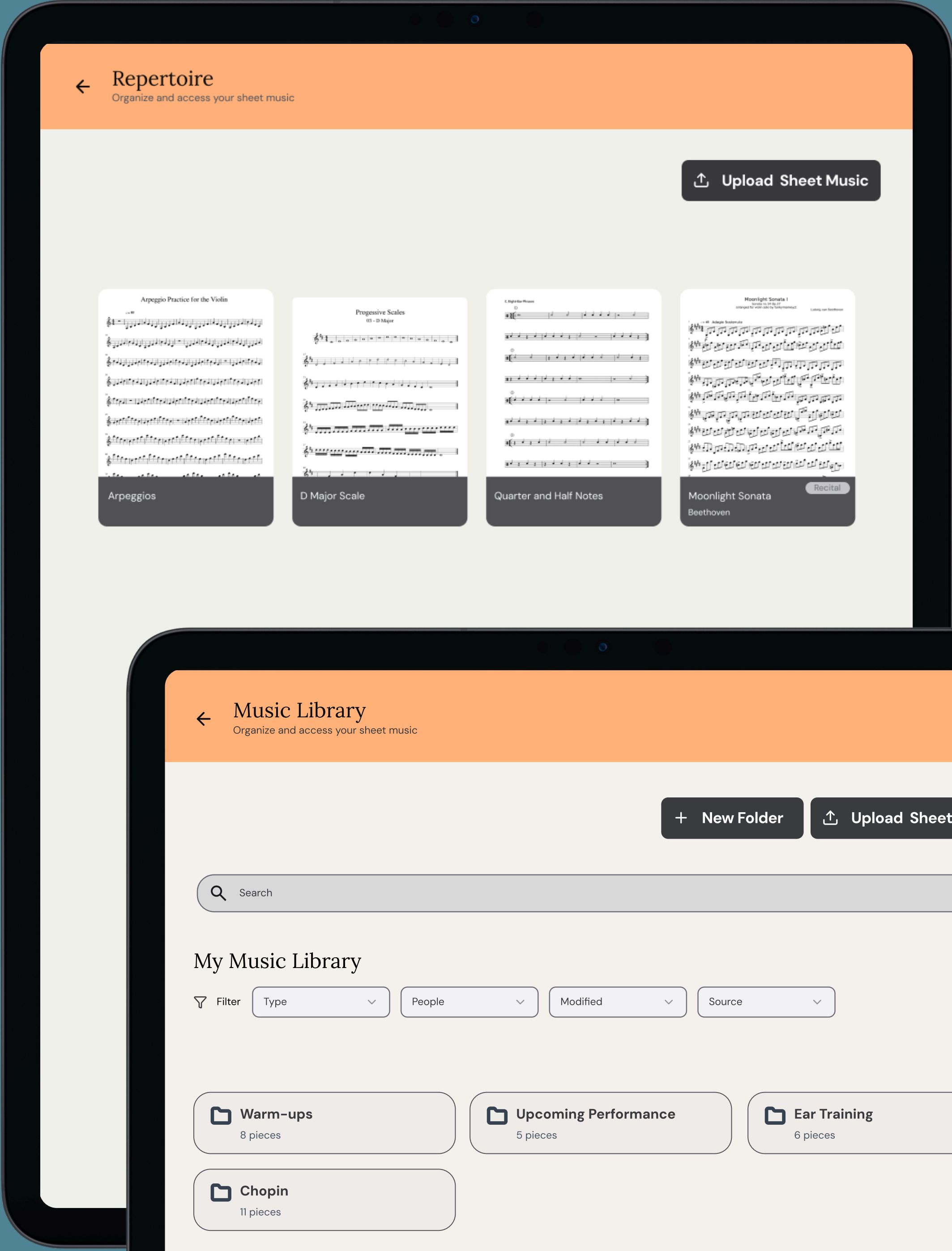
Upload sheet music, access music your teacher has uploaded



Add tags, organize into folders






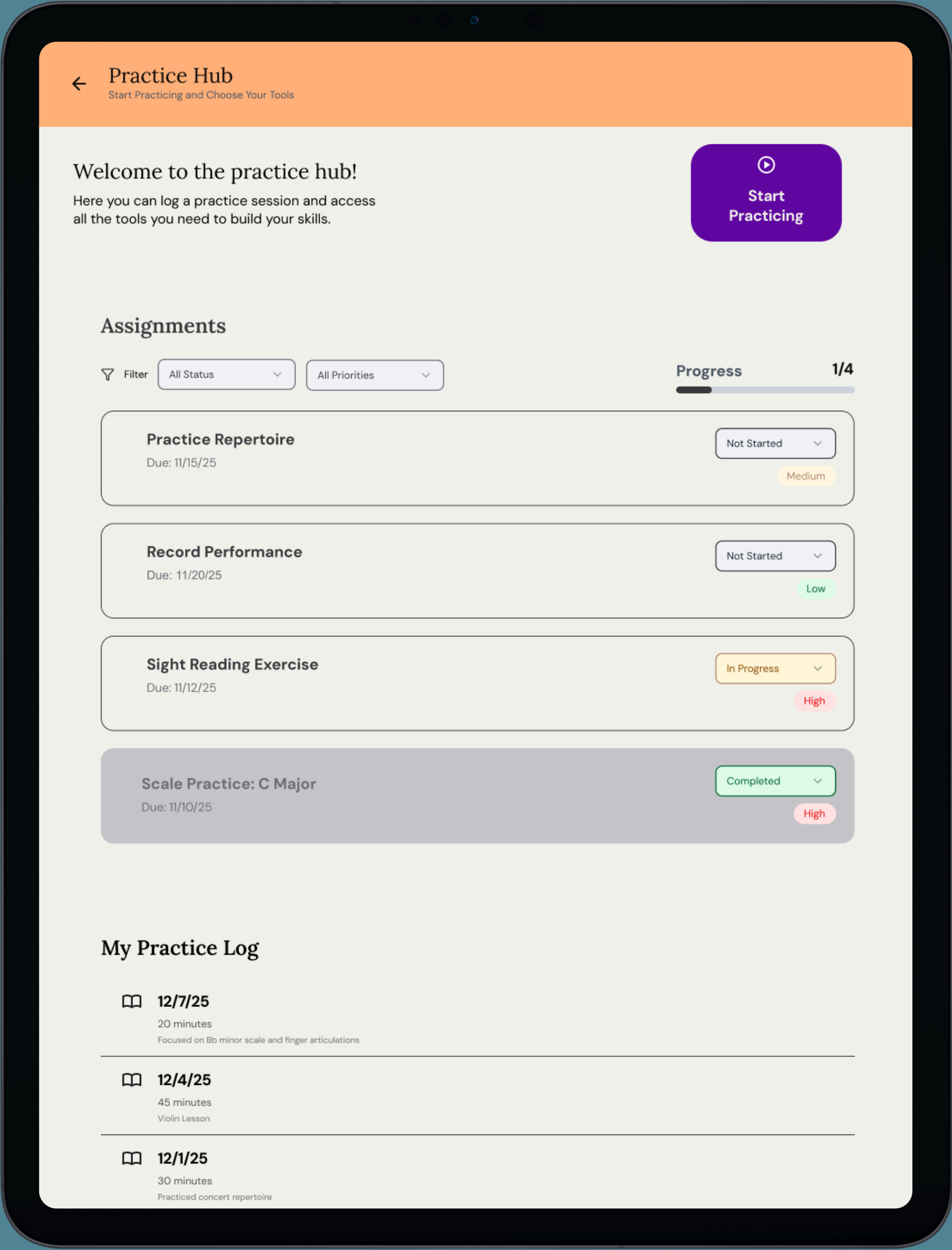
Filter or search your library



Practice Hub

Practice Control Center

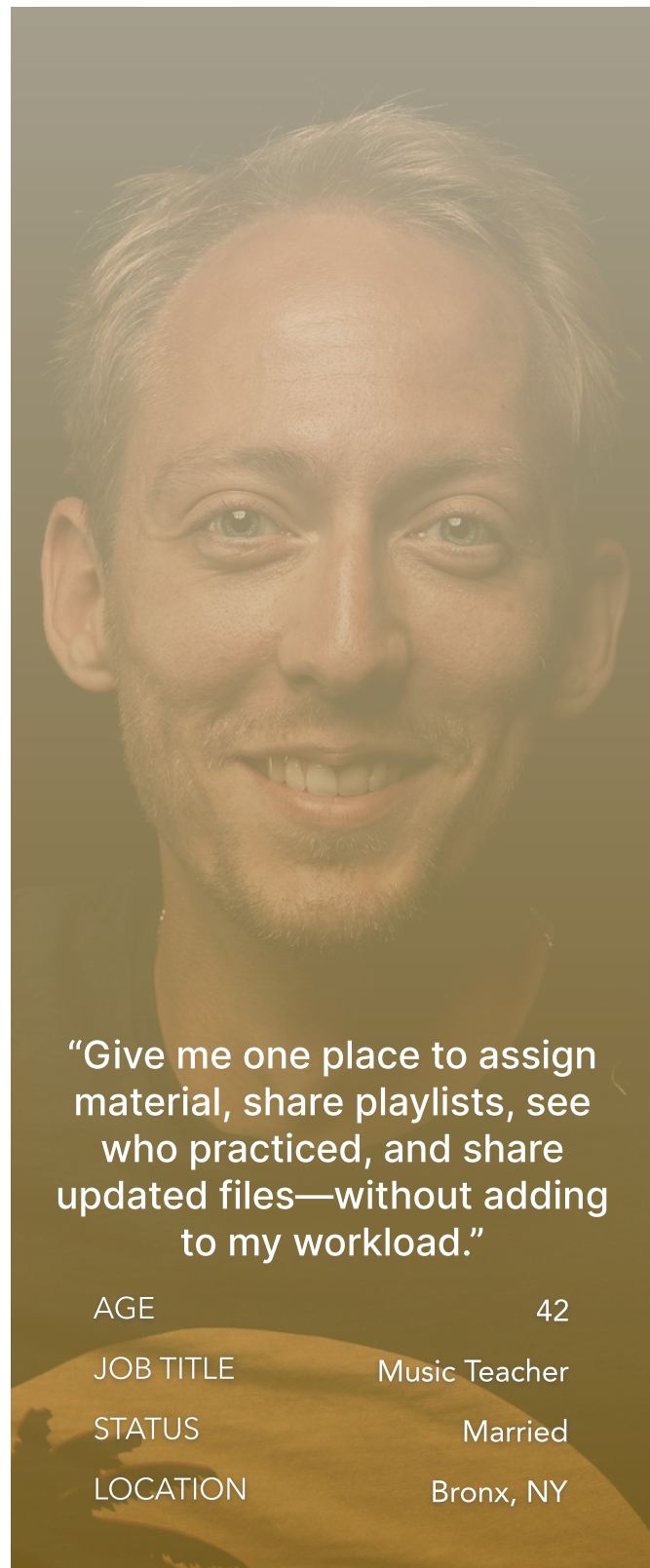
-  Assignments overview
-  Detailed practice log
-  Quick start a practice session





Next steps

Expand teacher



“Give me one place to assign material, share playlists, see who practiced, and share updated files—without adding to my workload.”

AGE 42
JOB TITLE Music Teacher
STATUS Married
LOCATION Bronx, NY

#TeachThroughVibes
#StudentBreakthroughs
#PaperworkOverload

Danny Morales

ABOUT

Danny teaches classes of to multiple students one-on-one, and group classes across multiple instruments. He values human connection and repeatable musical experiences that build community. He keeps paper notes, grade books, and simple spreadsheets but is open to digital tools that actually save time.

WANTS & NEEDS

- Clear dashboards that show who needs help
- Easy distribution of the newest sheet music
- Tools that work on school iPads

KNOWN HABITS

- Reuses core repertoire to reinforce learning
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- Gives quick in-class checks instead of long written homework

PREFERENCES

- Easy Ability to Scan Music
- Tracking Student Practice
- Reminders for Students
- App Lock Mode
- Community Building

PAIN POINTS

- Hard to track individual progress across large classes and give personal feedback
- Class time gets eaten by logistics (who practiced, who has music)
- Phone use distracts students
- Paperwork is “the hardest part” (scattered notes, Dropbox updates, etc.).

FAVORITE APPS



JOB TITLE Student
STATUS Single
LOCATION New York

- Records teacher demos on phone
- Practices more when an assessment, performance, or practice session is near

USER PERSONA

Jazmin Matthews

PREFERENCES

- Games
- Being the top of her class
- Music Playlists
- Violin
- Current Music lessons

PAIN POINTS

- Blurry PDFs and unclear scans and slow wifi
- Apps that send too many notifications
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FAVORITE APPS



Expand teacher & parent use

#CreativeSoul

USER PERSONA

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PREFERENCES

- | | | | | | |
|----------------------------|---|---|---|---|---|
| Easy Ability to Scan Music | ● | ● | ● | ● | ● |
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| Community Building | ● | ● | ● | ● | ● |

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#CalendarPlease

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Maria is a working mother of three, balancing a demanding job with her family's busy schedule. Her oldest recently began pursuing music more seriously, adding lessons and practice sessions to her routine. Maria values structure and wants a simple way to track goals, review teacher notes, and stay engaged in her child's progress without adding more to her plate.

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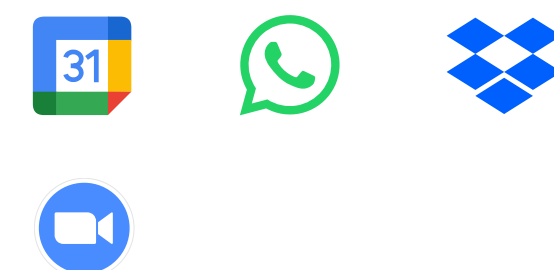
PREFERENCES

- | | | | | | |
|---------------------|---|---|---|---|---|
| Music as Bonding | ● | ● | ● | ● | ● |
| Easy Communication | ● | ● | ● | ● | ● |
| Progress Tracking | ● | ● | ● | ● | ● |
| Structured Guidance | ● | ● | ● | ● | ● |
| Minimal Complexity | ● | ● | ● | ● | ● |

PAIN POINTS

- Child sometimes unmotivated
- Needs clearer structure from teacher (practice goals, schedules)
- Finds managing child's schedule with her own overwhelming

FAVORITE APPS



Usability Testing (pt. 2)



User Testing Summary Report

Date: 12/1/25 Project: Allegro - Music Education Platform
(iPad) Participants:6

1. Overview

The tests focused on 3 user flows:

1. Student flow: Access your assignments
2. Student flow: Start a practice session
3. Student flow: Upload sheet music to music library

Objective

We created different tasks and questions to understand the overall user experience of the application, including its usability and visual communication.

2. Methodology

Test Format: [Moderated In-Person / Remote via Zoom] Some testing was conducted via a moderated zoom session where participants were instructed to share their screen. Other tests were held in person, with a note-taker and were audio recorded.

Materials: iPad, Mid-fi prototype, mid-fidelity figma prototype links and they were guided through task-based scenarios relevant to 3 main user flows.

Participants: We spoke to 6 total participants consisting of 4 music students, 1 music teacher, and 1 graduate student.

Tasks Tested:

1. **Exploratory:** Browse the application; gauge first impressions.
2. **Access Assignments:** Scenario: Just had a lesson, starting the first practice of the week.

User Testing Summary Report

Date: 12/1/25 Project: Allegro - Music Education Platform Focus: Student Engagement Loop
(iPad) Participants:6 Target Age: 25-45

1. Overview

The tests focused on 3 user flows:

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2. Methodology

Test Format: [Moderated In-Person / Remote via Zoom] Some testing was conducted via a moderated zoom session where participants were instructed to share their screen. Other tests were held in person, with a note-taker and were audio recorded.

Materials: iPad, Mid-fi prototype, mid-fidelity figma prototype links and they were guided through task-based scenarios relevant to 3 main user flows.

Participants: We spoke to 6 total participants consisting of 4 music students, 1 music teacher, and 1 graduate student.

Tasks Tested:

1. **Exploratory:** Browse the application; gauge first impressions.
2. **Access Assignments:** Scenario: Just had a lesson, starting the first practice of the week.

User Testing Summary Report

Date: 12/1/25 Project: Allegro - Music Education Platform Focus: Student Engagement Loop
(iPad) Participants:6 Target Age: 25-45

1. Overview

The tests focused on 3 user flows:

1. Student flow: Access your assignments
2. Student flow: Start a practice session
3. Student flow: Upload sheet music to music library

Objective

We created different tasks and questions to understand the overall user experience of the application, including its usability and visual communication.

2. Methodology

Test Format: [Moderated In-Person / Remote via Zoom] Some testing was conducted via a moderated zoom session where participants were instructed to share their screen. Other tests were held in person, with a note-taker and were audio recorded.

Materials: iPad, Mid-fi prototype, Hi-fi design (dashboard). Participants were given access to mid-fidelity figma prototype links and they were guided through task-based scenarios relevant to 3 main user flows.

Participants: We spoke to 6 total participants consisting of 4 music students, 1 music teacher, and 1 graduate student.

Tasks Tested:

1. **Exploratory:** Browse the application; gauge first impressions.
2. **Access Assignments:** Scenario: Just had a lesson, starting the first practice of the week.

thank you!

