



PROFESSION APP

PROCESS BOOK

Debbie Murdock • Interaction Design • Fall 2019

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Profession App

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Research: profession app

DEFINE PROBLEM

To develop a system that integrates three integrated apps for an existing profession or life situation. We are only required to design for two of those interfaces. This project explores how people use technology together and how they can be designed to connect on different platforms.

The parameters for the project are as follows:

1. Design for smart phone, tablet, and/or desktop screen sizes
2. Design multiple screens for each environment to demonstrate functionality
3. Use the first 5-7 pages of your process book to present project
4. Highlight the goals established for your profession app
5. Discuss how user tests affected the final app design
6. Walk through a scenario for the final profession app

The process book needs to contain the following:

1. Process book uses the template designed in module 1
2. Cover
3. Table of Contents
4. Presentation Section
5. Comprehensive Section (includes research, design exploration, usability testing, and refinements based on user testing)

TARGET AUDIENCE

My target audience will be divided into two groups. The first group will be people that teach piano as a profession from the age of 25 to 65. These individuals are very knowledgeable musicians and have had experience with working with students. This is their primary job and looking for ways to streamline their profession in using technology to further implement ways to track the progress of their students.

The second group will be students that are taking piano. The age range is from 7 to 25. The younger kids are ones that have full support from their parents and are heavily involved in their education. This age group is very technologically savvy. The kids and young adults are enrolled in school and regularly need access to the Internet in order to finish their assignments. These kids are like to learn and are involved heavily in other extracurricular activities and have to find a balance between school and studies.

Research: profession app

EXPLORATION

Child Electronics Monitoring System

An app that monitors their children time on the computer. The control will be on the mobile app that the parent will control. They will be given a list of websites that the child has visited. Be given the amount of time they have spent. The mobile app will have the capability of locking and unlocking the computer remotely. You can initiate a timer for their screen time. The desktop version will have portal you can log into your personal account. The child will have a small screen they can access to show the time remaining. The parent would give the access as necessary. On the mobile you can set time constraints as of when they can access the computer.

Psychologist/Patient Platform

Psychologist patient check in app and portal. Mobile app would be for the patient to check their mental health every day. The psychologist would have a profile on the desktop version of what was discussed in the appt. and a profile of the patient. Secured log in. There would be a voice journal entry that the patient can record feelings and thoughts they are having through out the day that may need to be discussed at the next appt. There would be an emergency button where they could talk to a professional immediately. Mobile app would have a checklist of goals the patient was supposed to complete during the week sleeping, eating, mastering or practicing a type of skill that was introduced in therapy.

Music Teacher/Student Profession App

Teacher can keep track of the assigned music for the week. The mobile app will give access to the student show what they are working on and log their practice time. There could be a comment section on parts of the song they are struggling with. Or questions they have going into the next piano lesson. There could be an option to send a video to the teacher to pass off songs or to receive help on things they can improve on. Maybe a built in metronome on the app.

Physical Therapist/Patient Platform

Desktop will be for the occupational therapist. Will track what they are working on, what skills the patient is trying to achieve, what exercises or program they have started. Will have the goals of the visits. Mobile device will have access to videos of the exercises assigned. They will also have a reminder notification and a place to record progress. Have the ability to ask questions to the therapist.

Divorce Communicator Platform

To keep the other parent aware of things that are going on in the kids life and document them. Have a website that would house an online journal, photo gallery, video upload to document what the kids did during their visits and up load videos of their programs and achievements. Mobile app would be a calendar of everything the kids are involved in so the other parent is aware. This would take very mature adults to operate.

Personal Trainer Platform

Have a personalized program for their client that they can develop through desktop and track their goals through an app. The mobile app will be accessed by the client and repost their workout and their diet to adjust the workout sessions accordingly.

Other Ideas

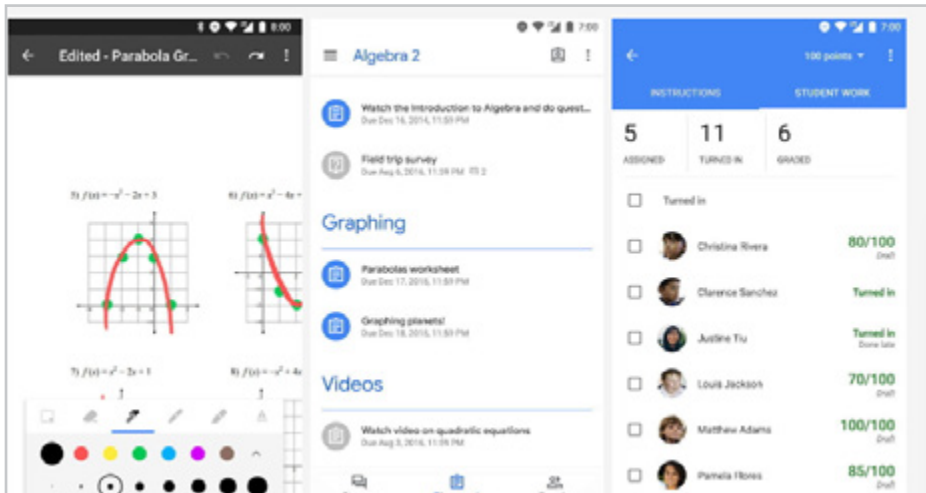
- Elementary School Teacher/Kid Homework Portal
- Para-educators IEP/Parent portal
- Occupational Therapist app/patient portal

Research: profession app

EXISTING APPS

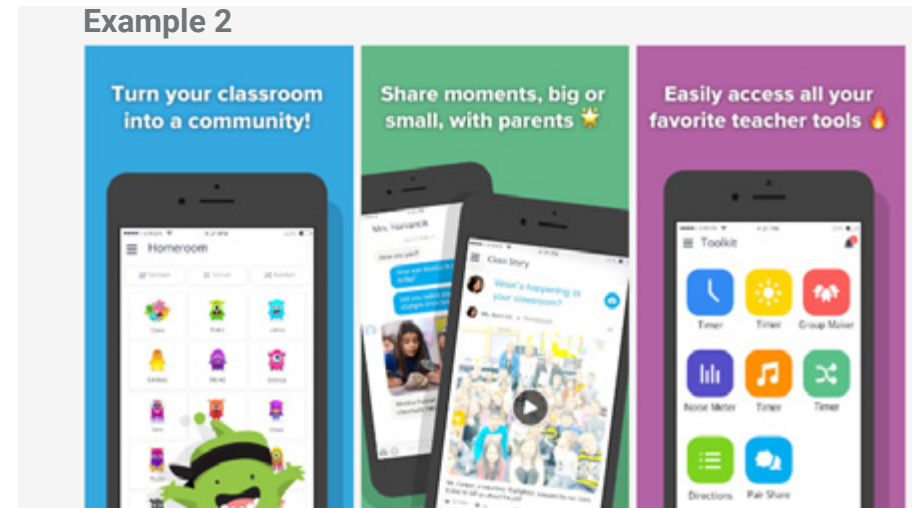
Originally, I started brainstorming ideas not even knowing if any of these platforms existed. I don't have a lot of apps on my phone because of space and my smart phone is very old. I was very surprised when I went to research what was already available and what possibilities were still yet developed.

Example 1



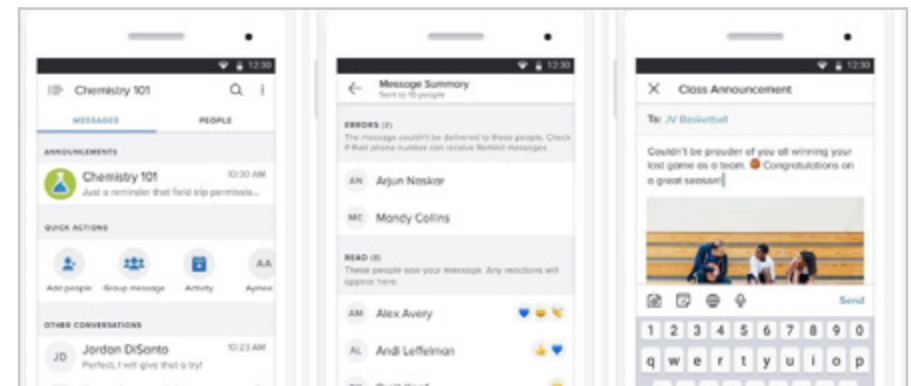
This is a teacher/student communication app from Google classroom. It allows the teacher to have all the assigned homework recorded in the app along with the progress of the student.

Example 2



This app is for teachers to communicate with parents. Majority of the teachers actually use this in our elementary school. The app is called Class Dojo.

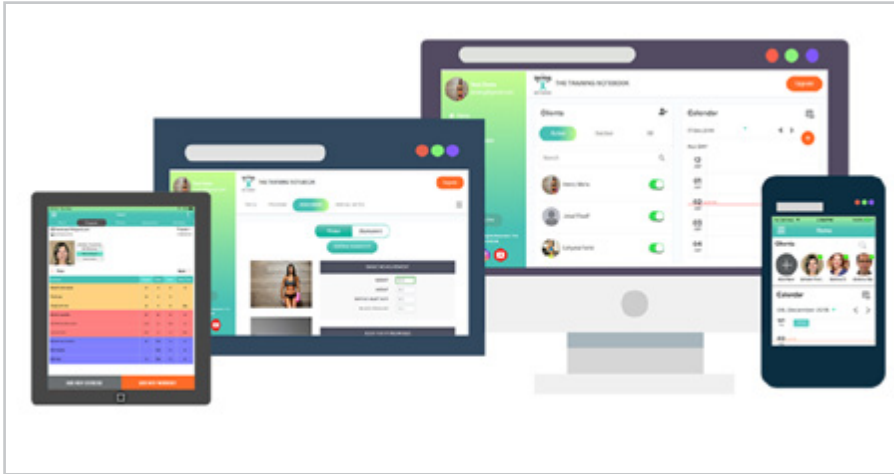
Example 3



This app is also an app for teachers to communicate with parents. The apps name is Remind. This is a popular app among older groups of students ranging from middle school to high school.

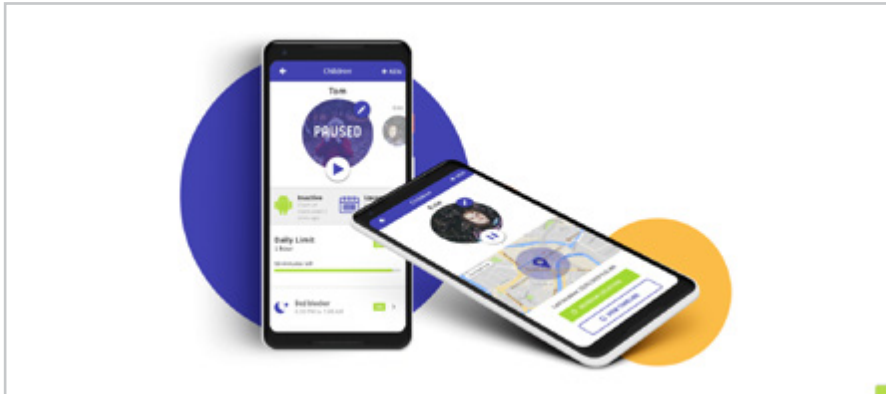
Research: profession app

Example 4



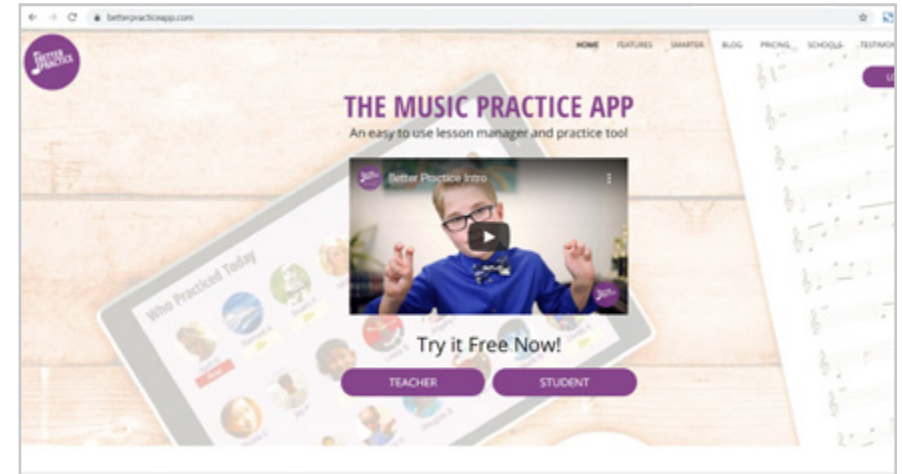
This is an app for a personal trainer to help make personalized workouts for their clients.

Example 5



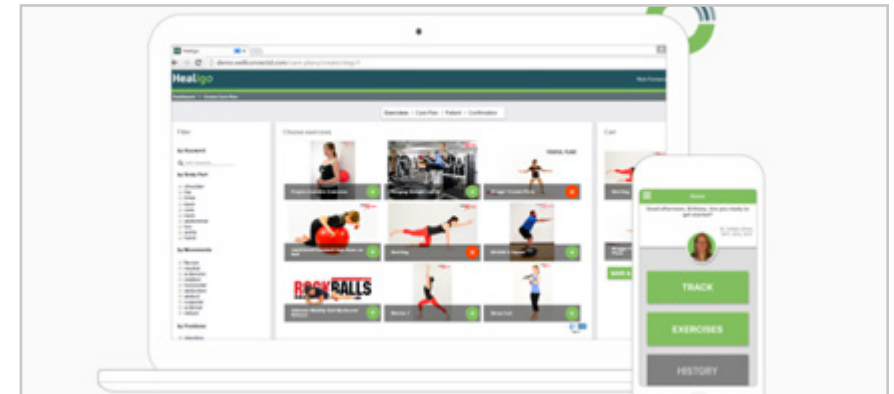
This is an app for parents to monitor and control the screen time of young children remotely.

Example 6



This is a music practice app to help teachers and students be organized.

Example 7



This is a physical therapist/patient app. The patient can access all the exercises they need that was assigned during their visit.

SMART PHONE TECHNOLOGY

The different uses of a smart phone have changed drastically over the years. Originally, cellular phones would only allow you to talk, text, and have GPS if you were lucky.

Now, smart phones afford you the following functions:

- Access the Internet
- Play games
- Track distance
- Use as a flashlight
- Stream music
- Watch movies
- Connect with people
- Share photos
- Act as a camera and video recorder
- Payment portal
- Keep track of finances
- Online banking
- Phone directory
- Map
- Coupons

There are many other function that your smart phone can afford. The possibilities are limitless. More and more technology is allowing smart phones to do the functions of common household items such as turning your smart phone into a television remote.

There are arguments concerning if smart phones improves our quality of life. The following ideas are given on how it can improve society in general.

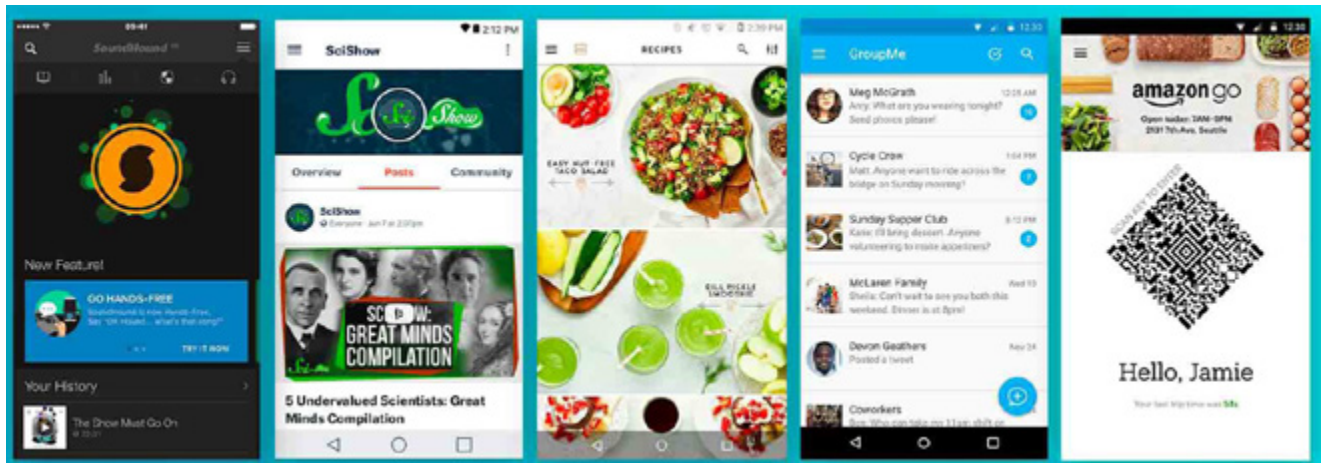
1. Improve the quality of education
2. It allows us to be health conscious
3. Reduces stress of a busy work life by helping balancing our schedules
4. Addresses people's needs through communication and helps us integrate socially
5. Opens up opportunities for businesses to expand

The different uses of a smart phone have changed drastically over the years. Originally, cellular phones would only allow you to talk, text, and have GPS if you were lucky.

Overtime, we have been able to consolidate technology and the need to have multiple devices. Right now, smart phones can function like any desktop computer to get information and it's more convenient.

Research: profession app

MOBILE PHONE INTERFACES

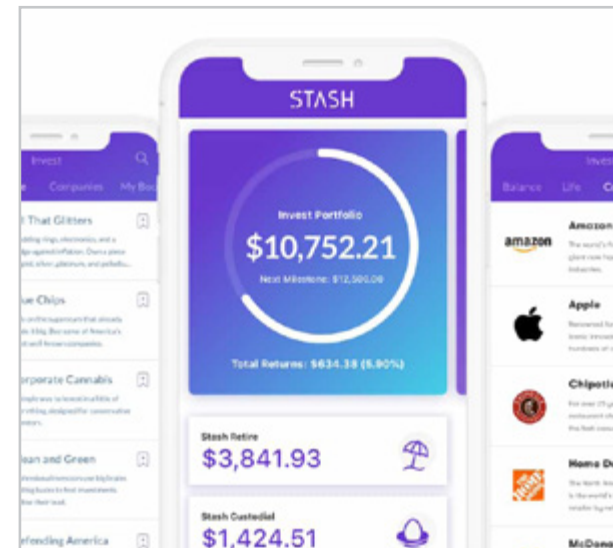


Mobile Phone View

I like the organization of this app. Each screen is clear on the purpose of the interaction. There is plenty of white space for the user's eyes to be guided through the design.



There is continuity in these this mobile app from each screen. I like the use of images in order to direct the user.



Infographics are used in this design to communicate a clear message of it's use.

TABLET INTERFACES



This is a very clean tablet design for a home page.



Tablet View

I noticed a lot of the designs for tablets used a lot of sectioning of the different data and charts and graphs. Also, the screens were more design to be on its side than upright.

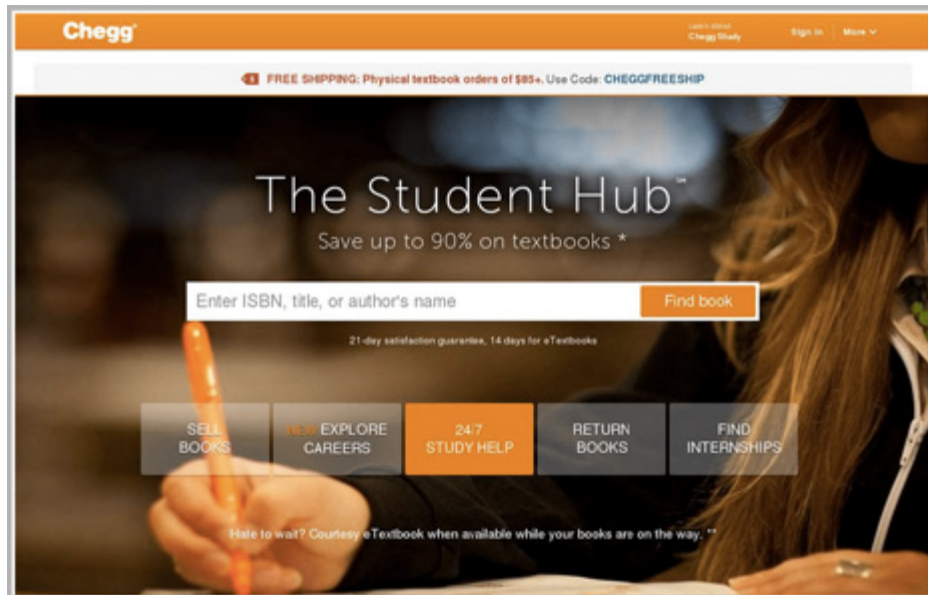


Tablet View

This design has a really strong grid system and uses images and icons for its functionality. The hierarchy is very well done.

Research: profession app

WEBSITE INTERFACES



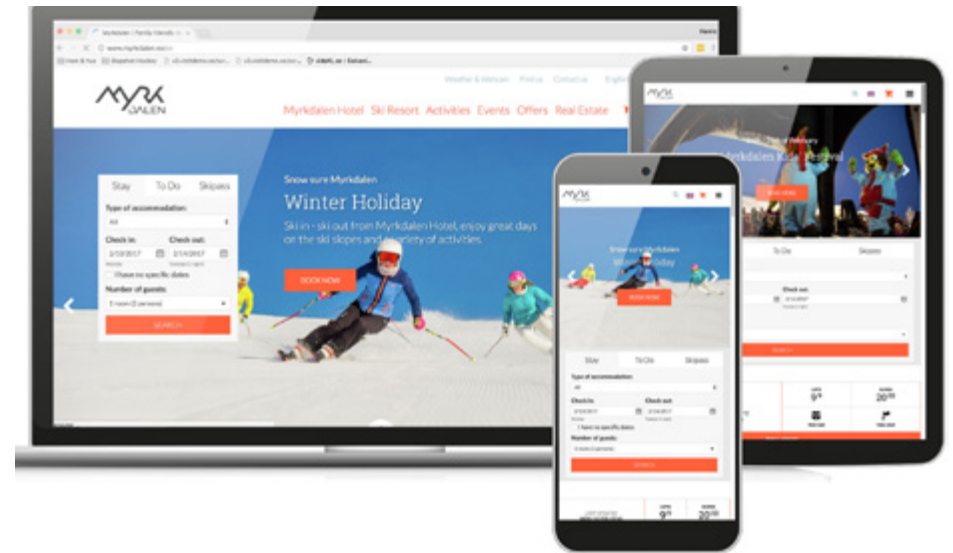
The call to action is very clear on this page. There is not a lot of overwhelming information but very clear links to what you would like to choose. For the app I'm thinking I'm wondering if the other interfaces for mobile and tablet would be a better option.



The subtle image in the background makes this site interesting. I think without it would come across as very boring and plain. The organization on the web page is very well done and it's easy to use the navigation.

Research: profession app

INTERFACE PLATFORMS (ALL 3 STYLES)



These 3 examples show the design differences and how they would interact across a communicating platform. They show the design differences between mobile phones, tablets, and desktop views. You can tell that there is more information on the desktop views. As the views get smaller, the designs change to manage the information on the page. Tablets still retain a header with the logo visible but implement the hamburger button with smaller icons.

Research: profession app

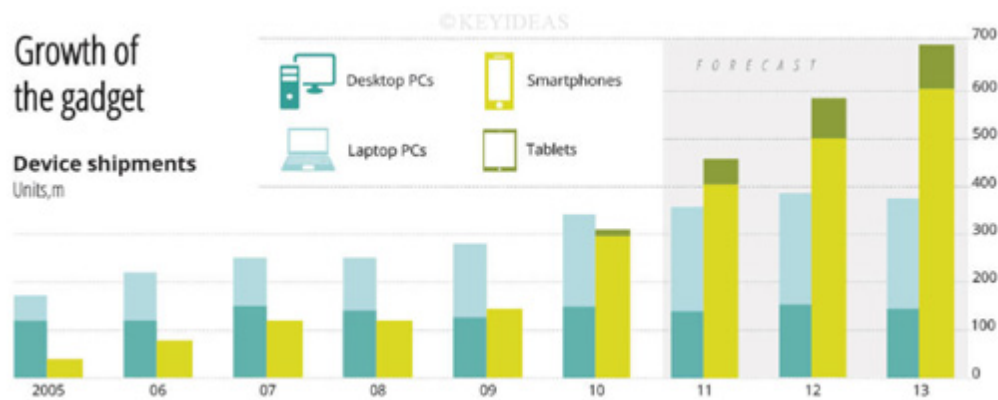
FINAL DECISION

Piano Teacher/Student Profession App

I've chose to create a profession app that will be a platform for music/piano teachers to allow them to be connected with your students.

Survey

I was trying to decide which interface to design on and opted to send out a survey to find out what parents would prefer to have their kids use to record their practicing times and use the functions of the app. Out of 15 parents, 8 of them would prefer an app like this on a tablet and 7 would prefer it to be on a mobile device. I recognize that not every family has tablets but everyone has a smart phone. I also spoke with piano teachers to see what kind of device they would prefer to take into a lesson that would store a student's lesson plan on. Majority said they like to have that on a tablet but unfortunately most of them did not own a tablet. One piano teacher in particular said they would love to own a tablet but would end up using their mobile device because she always carries it with her.



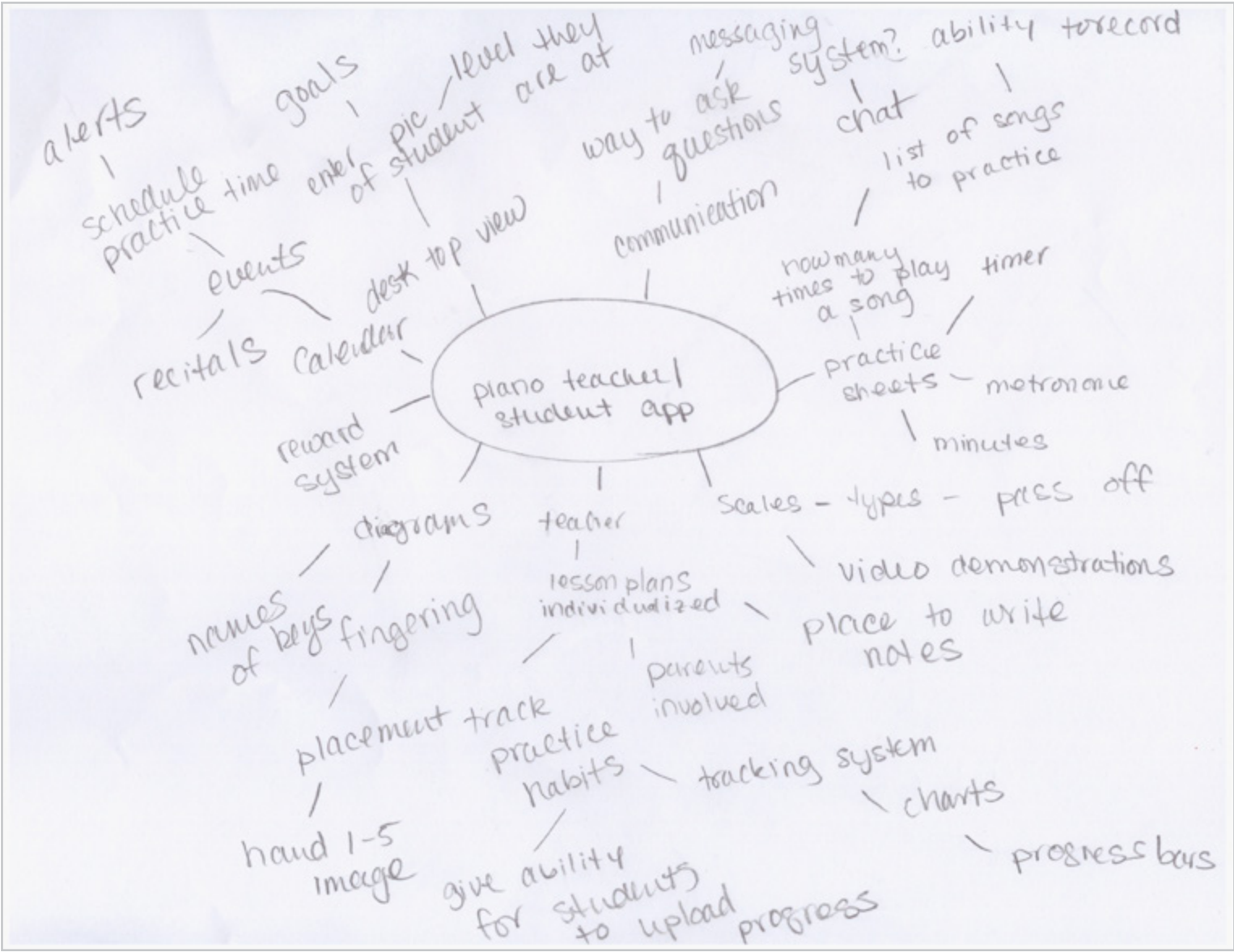
This is a chart to show the growth of different devices the consumer is using.

Interface Plans

I've decided to design the student app interface on the tablet This platform will allow the student to keep track of their practice time. It will contain all the songs they are working on and notes from the teacher for their goals for the week. They have will have access to a metronome. They will also have access to video of demonstrations of the songs. I would also like to have a screen where there is the ability to learn the notes and have a place where they can pass of their scales. There will be a chat option where the student can ask questions and possibly upload videos to the teacher on certain parts they are struggling with or even to pass off songs. I would also like to equip this app with a timer. A screen for goals that is established with the teacher would be a nice touch with incentive for reaching those goals.

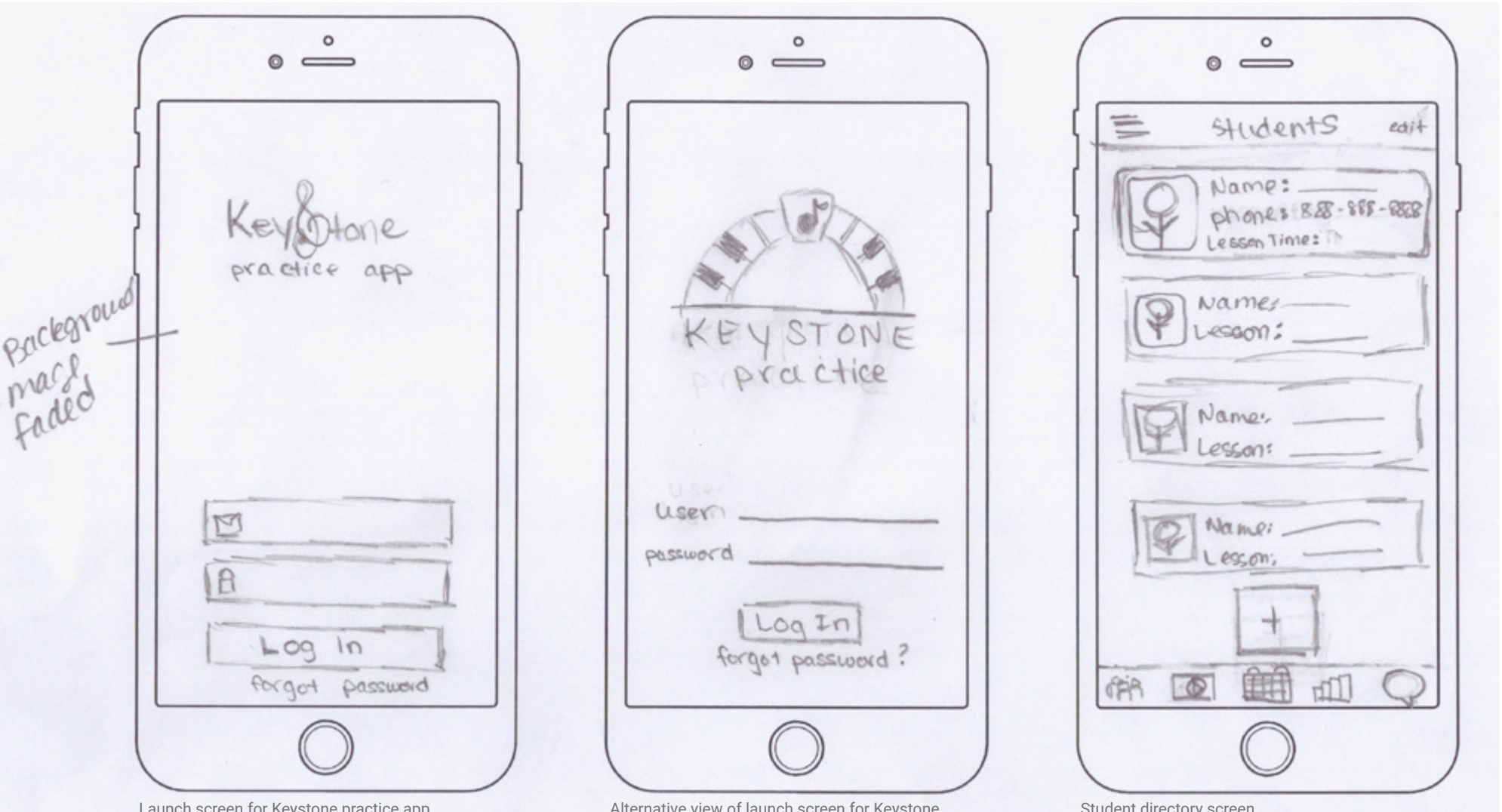
For the teacher I am planning to design their interface on a smart phone. I originally was going to design for tablet but realized this app will be dependent on the Internet. If they are a traveling teacher they will not always have access to wi-fi. They will have a screen where they can have the name of their student with the level, age with the day and time of their lesson. There will be a calendar to show their schedule of their lessons. There will be a screen to for each child that you can write their lesson plan and will have any videos they have uploaded for you. There will be a messaging system that the teacher can choose to respond to one student or all. I would like to have charts to show the amount of time practiced so it can be viewed visually. The data will be sent back from their mobile app as to if they have practiced and what they worked on.

Brainstorming: profession app



Sketches: profession app

TEACHER MOBILE PLATFORM



Launch screen for Keystone practice app

Alternative view of launch screen for Keystone practice app

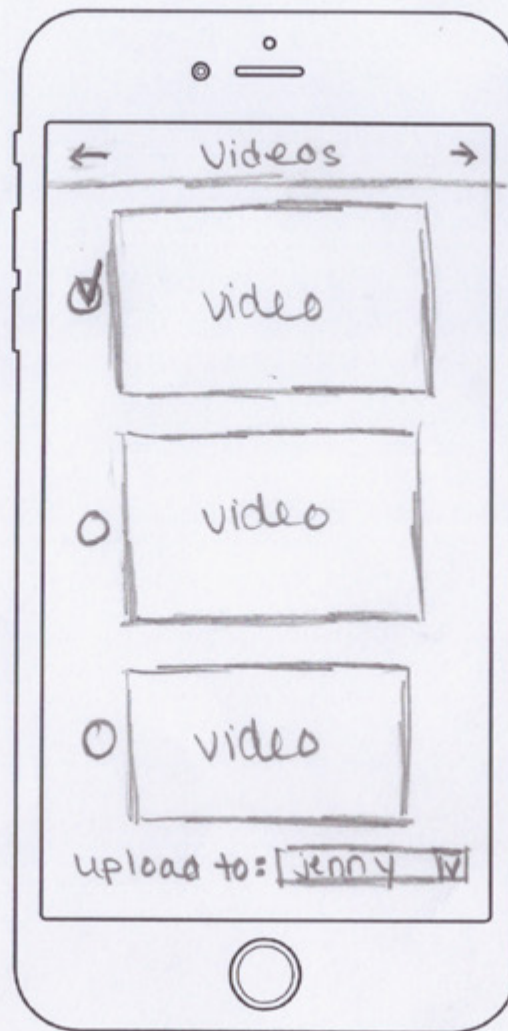
Student directory screen

Sketches: profession app

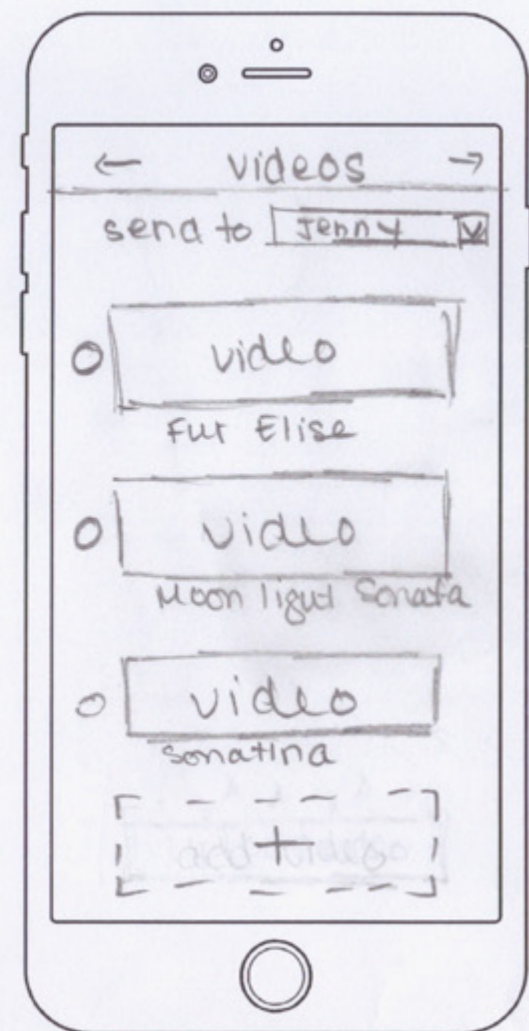
TEACHER MOBILE PLATFORM



Home screen for all the screens available



Video screen to send to students



Alternative video screen

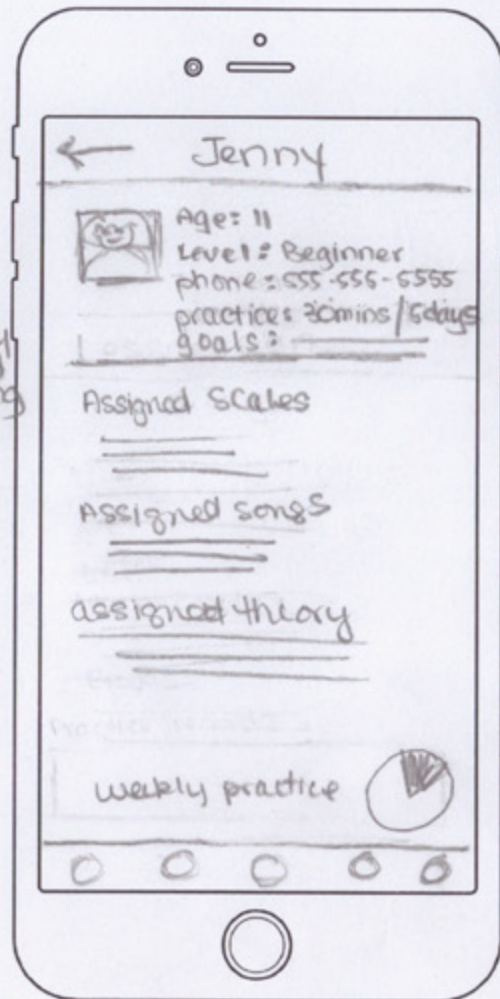
Sketches: profession app

TEACHER MOBILE PLATFORM

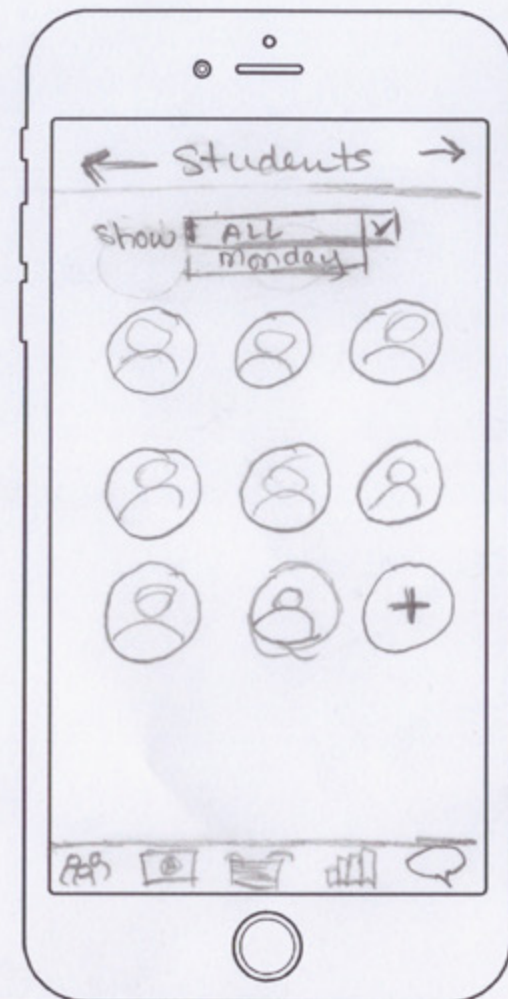


Alternative student's screen

green
button
if they
finished
practicing



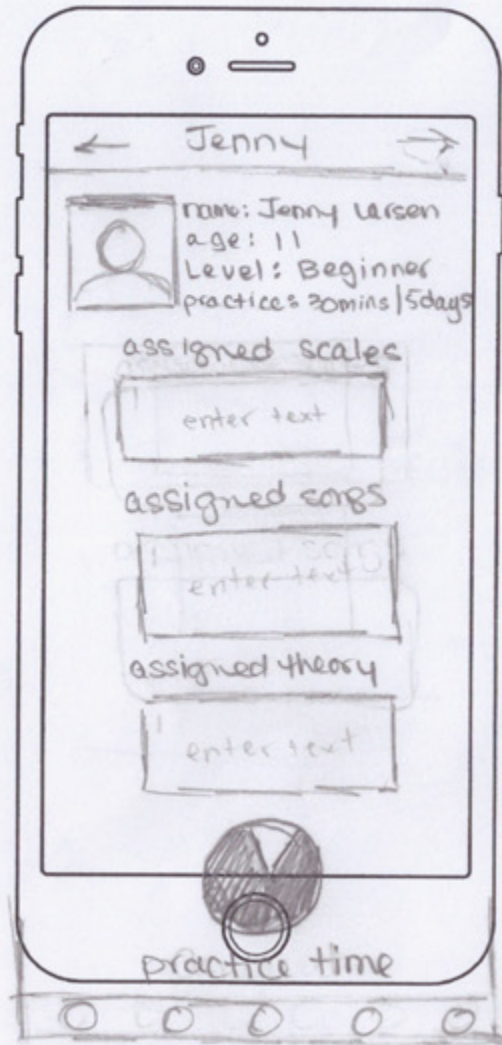
Lesson plan for individual student



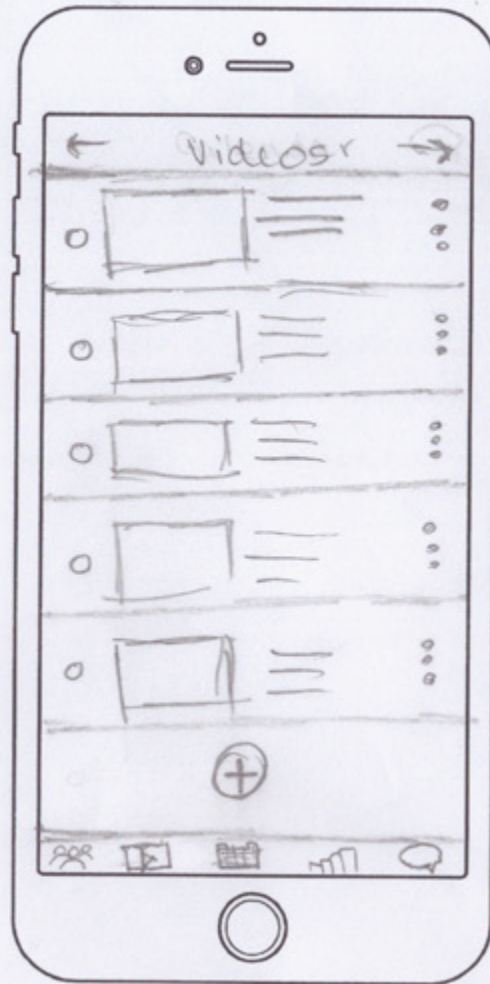
Alternative student screen

Sketches: profession app

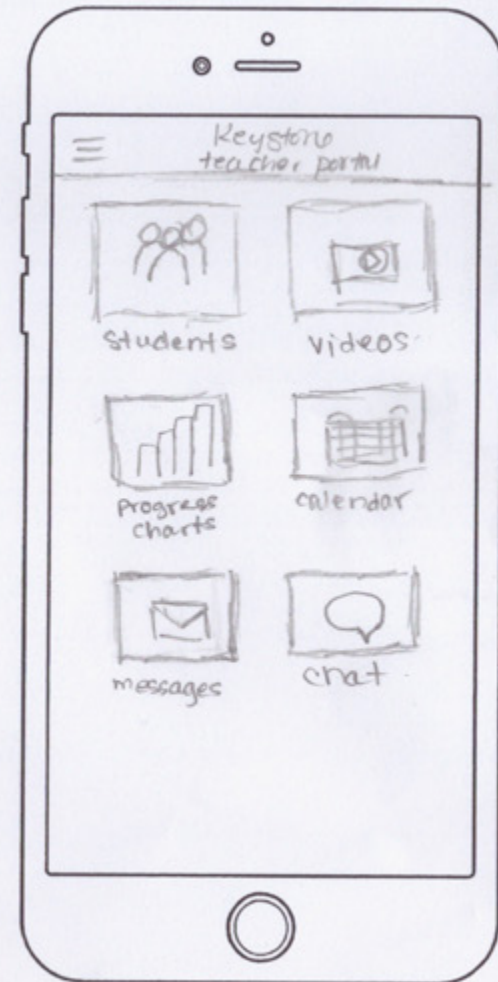
TEACHER MOBILE PLATFORM



Alternative lesson plan screen



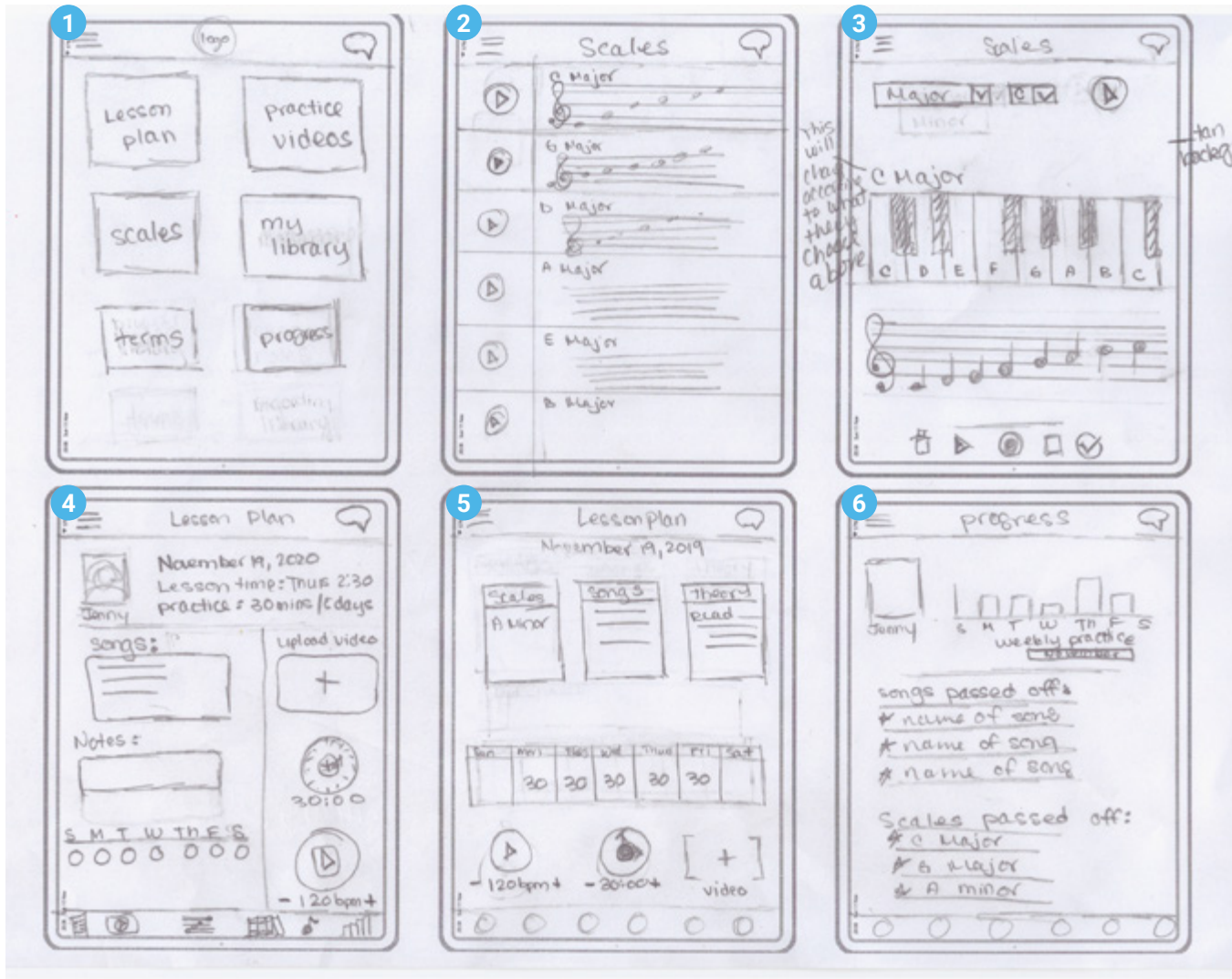
Alternative videos screen



Alternative teacher portal home screen

Sketches: profession app

STUDENT TABLET PLATFORM

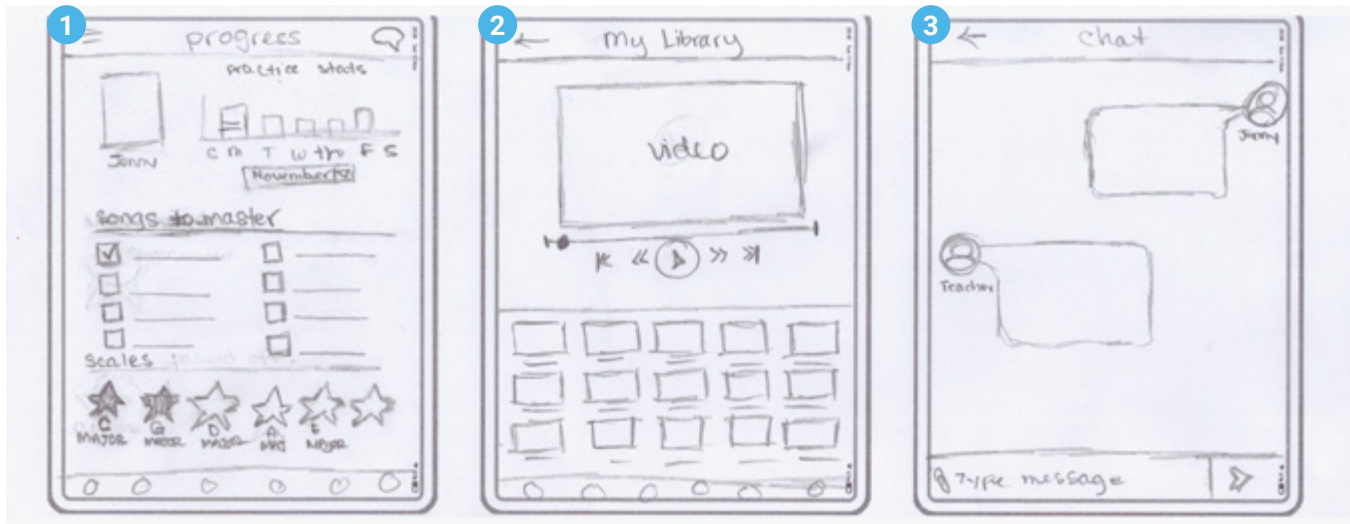


Improvements

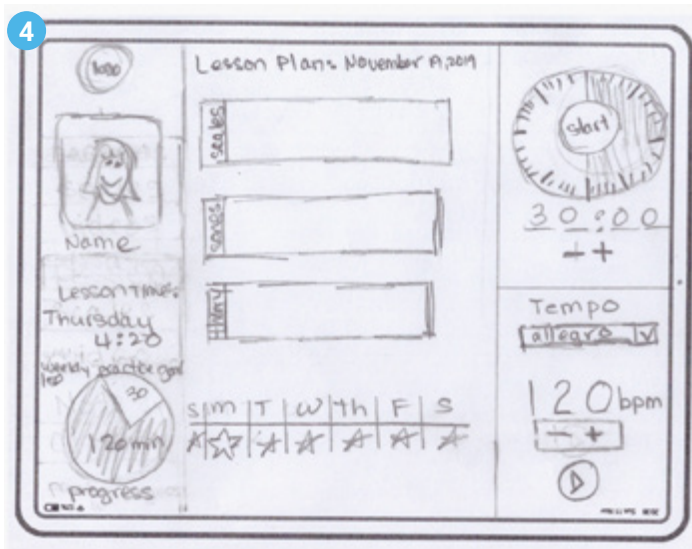
1. Home screen for the student platform offering them choices of what the app has to offer.
2. A view of what the scales screen. It seemed too crowded and hard to find which scale you wanted.
3. Alternate view of the scales screen. I think this has a stronger design and better organized than the first.
4. Lesson plan for the student platform.
5. Alternate view of what the lesson plan could look like with the option to put in the specified time.
6. Progress screen so the student can track what they have passed off.

Sketches: profession app

STUDENT TABLET PLATFORM



1. Alternate view of the progress screen.
2. My library screen to store and view all of the recorded videos that the student has produced.
3. Chat screen so the student can communicate with the teacher.
4. This is a horizontal view of the lesson plan separated into three sections.

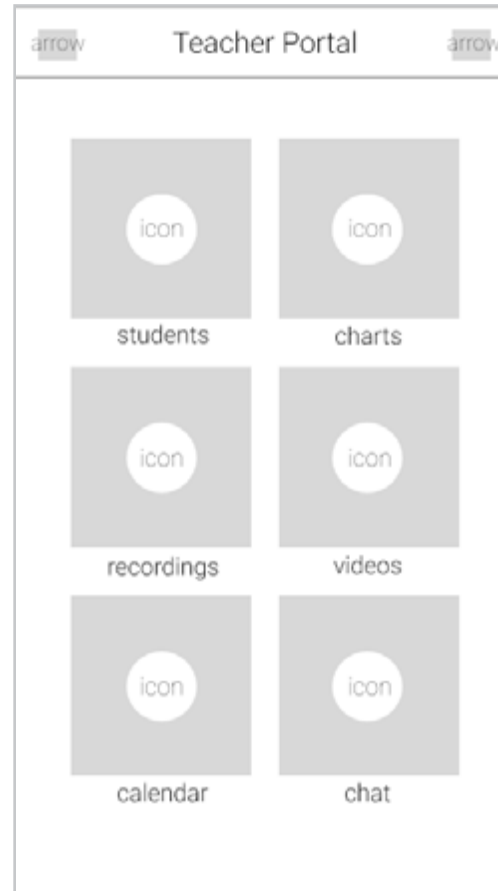


Wireframes: profession app

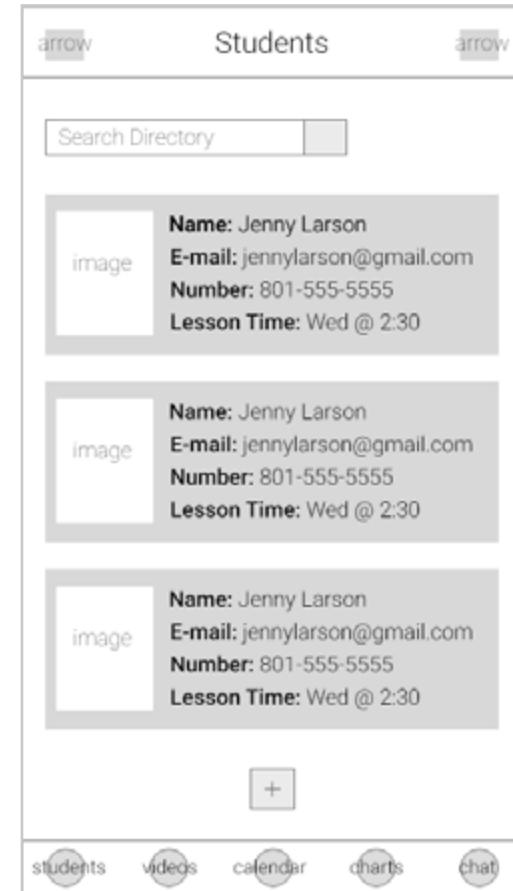
TEACHER MOBILE PLATFORM



Launch screen with user and log in info.



The teacher portal screen will offer all options to access each of the screens available in the app.



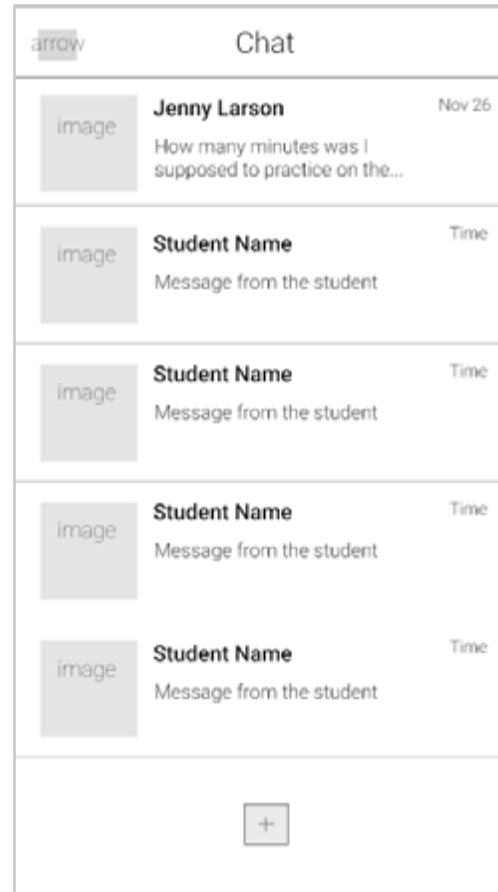
The student's screen will also double as a directory for all current student's and the option to add more.

Wireframes: profession app

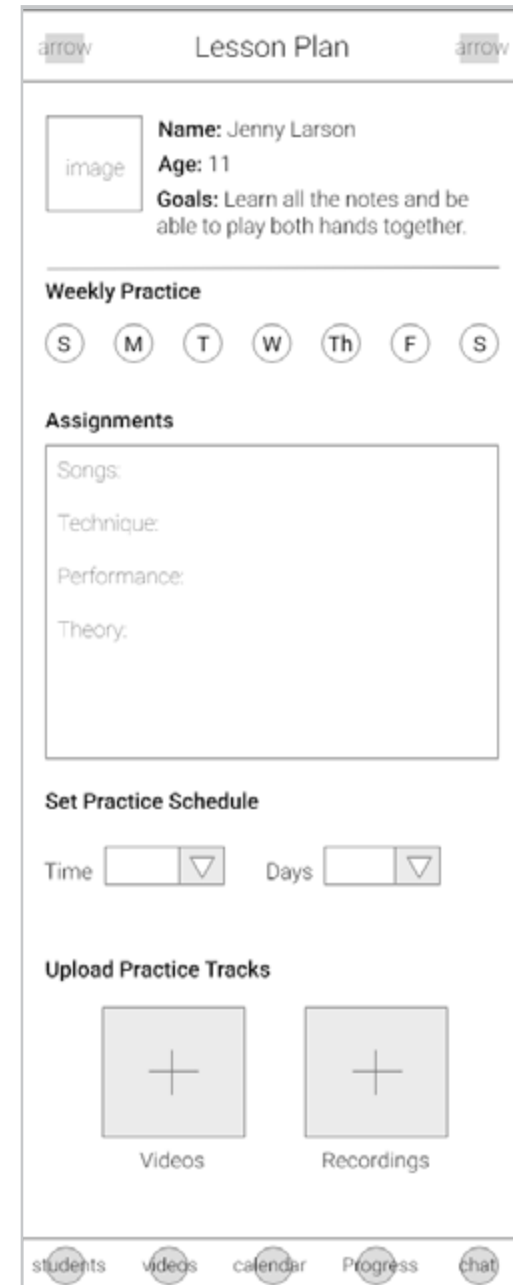
TEACHER MOBILE PLATFORM



The recordings screen will store all recordings the teachers does to send to her students. She can choose which ones to send and use the three dots on the right for other options to send.



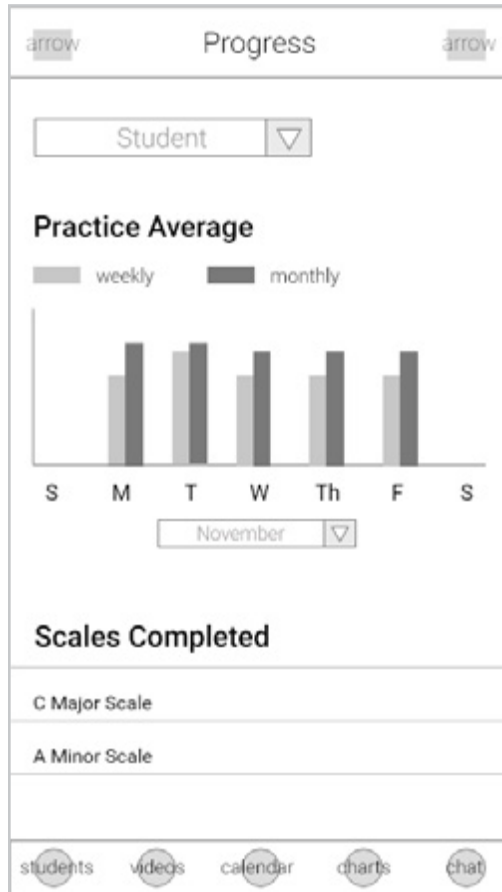
Basic chat set up for messaging back the student.



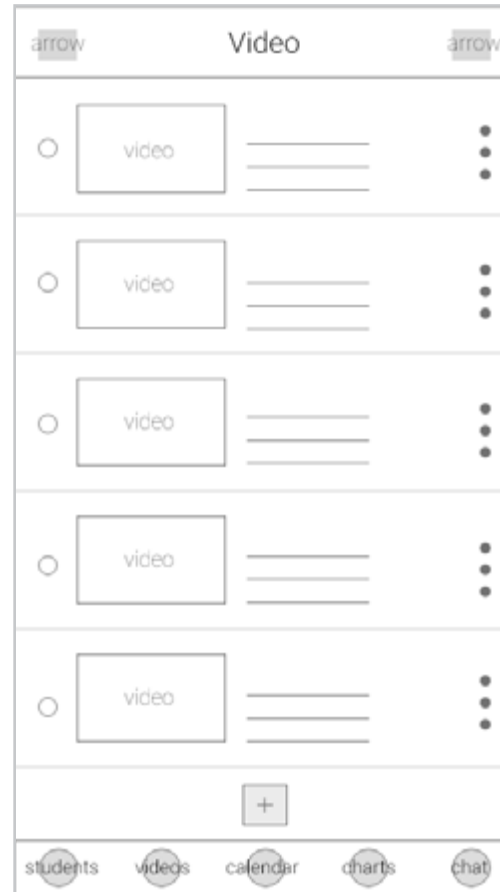
Lesson plan that connects to the tablet view.

Wireframes: profession app

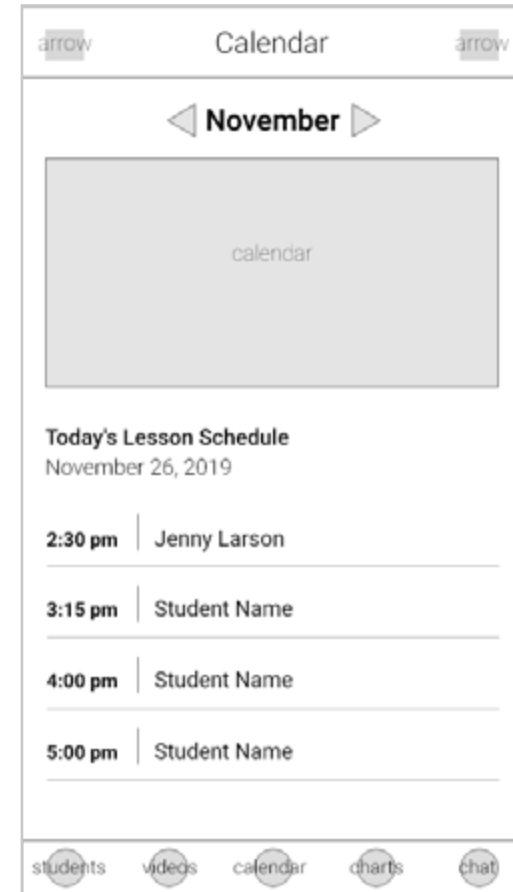
TEACHER MOBILE PLATFORM



The teacher can check the progress and practice amount of each student with the drop-down menu.



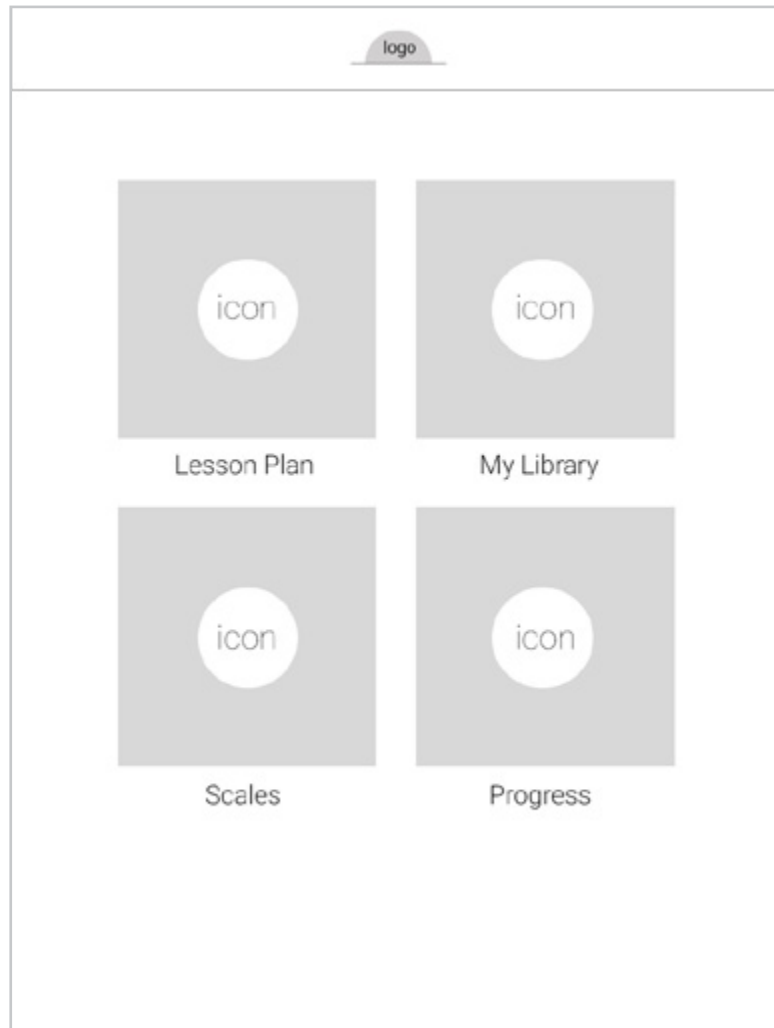
The video screen is set up the same way as the recording screen.



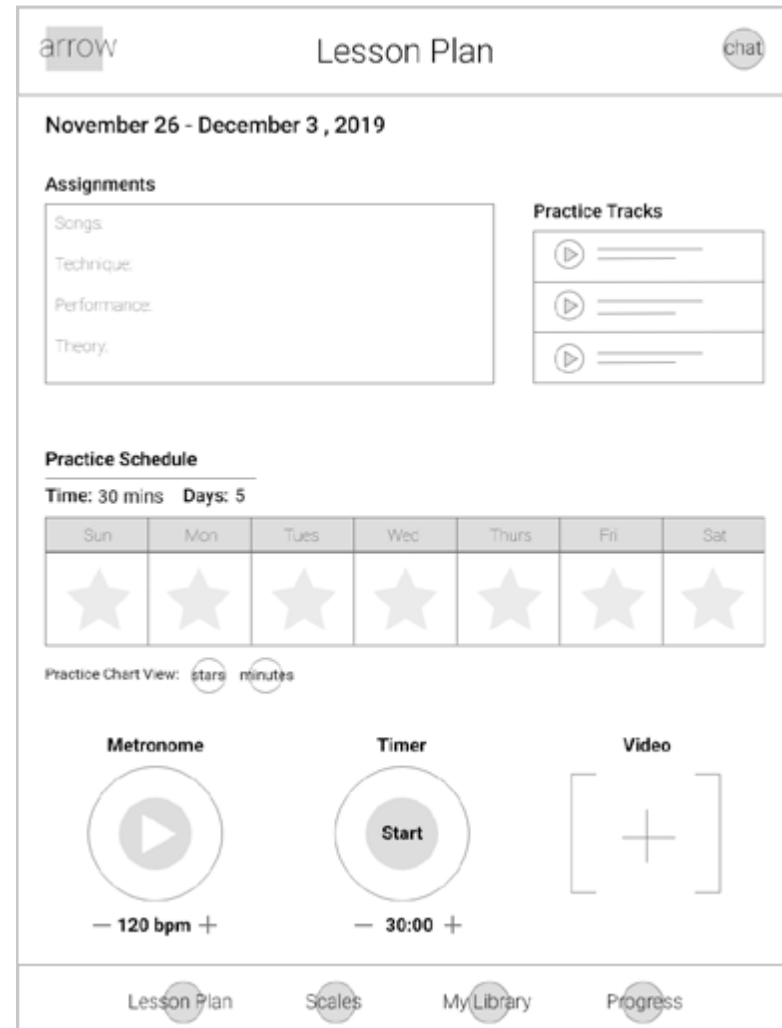
The calendar screen will help the teacher keep her lesson times organized.

Wireframes: profession app

STUDENT TABLET PLATFORM



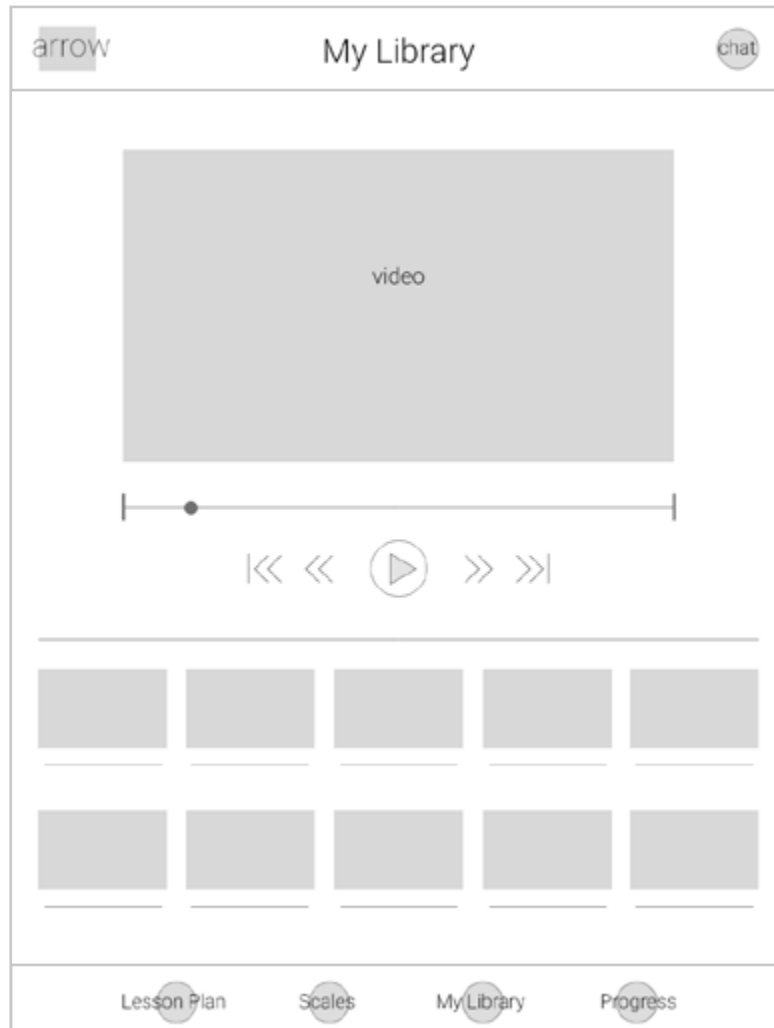
Home screen for the student tablet view.



The lesson app will be connected with the teacher app. The teacher will have control over the assignments, practice tracks, and the practice schedule concerning the time and day. The bottom half is controlled by the student and reports back to the teacher.

Wireframes: profession app

STUDENT TABLET PLATFORM



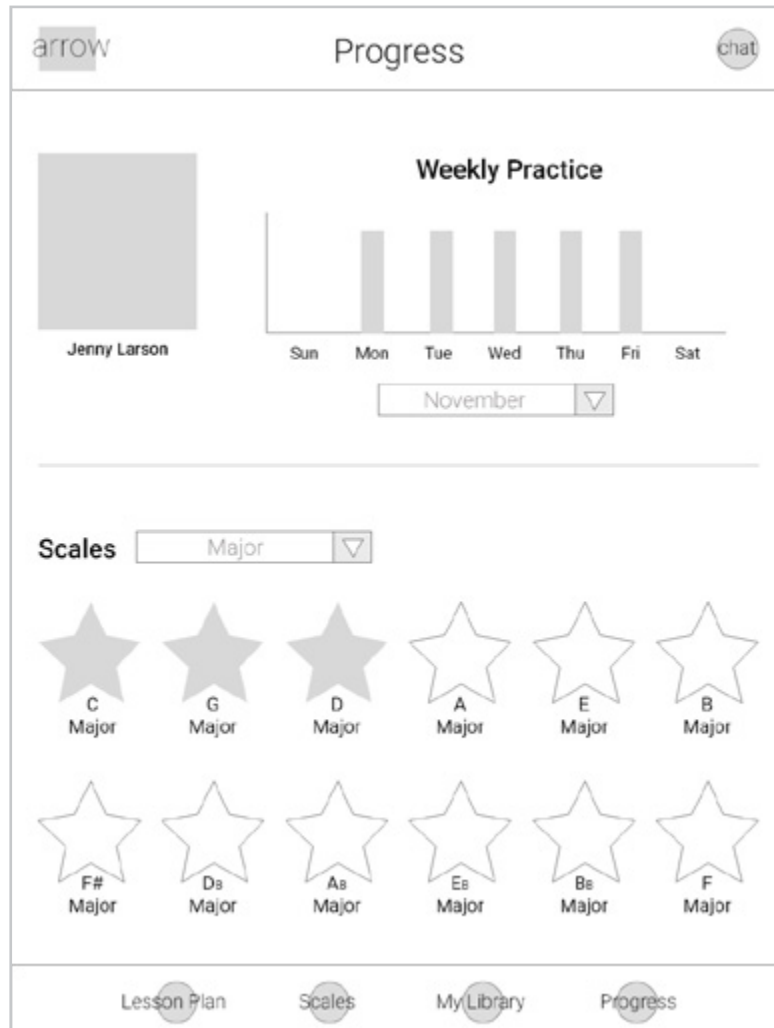
The library will house any video and recordings that the student records.



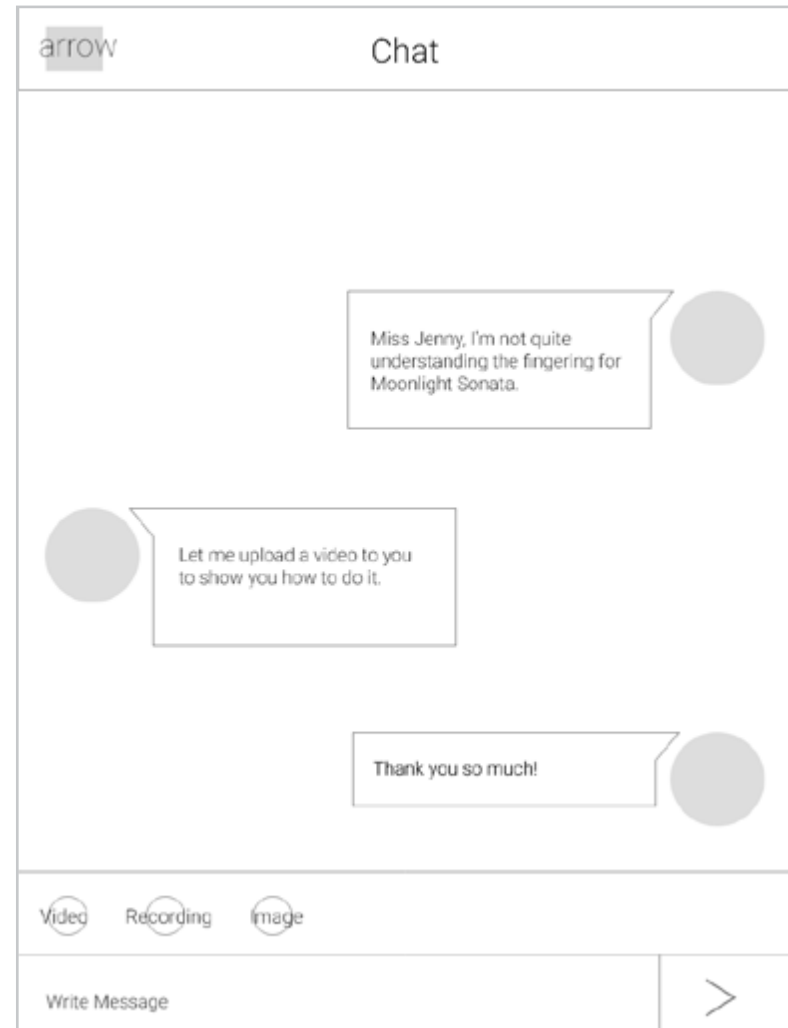
The scales screen will have a practice track and the ability to choose which scales the student is assigned to work on. It will have the ability to record and save their tracks so they can turn them into the teacher.

Wireframes: profession app

STUDENT TABLET PLATFORM



This is a progress page to help the student see what they have passed off and accomplished. The stars will be colored in as they pass things off. This will be connected to the teachers charts page as they pass them off.



The chat option will ONLY allow the student to text the teacher and no other contacts will be allowed to be added.

Style Guide: profession app

Logo



Heading 1

Imprint MT Shadow
36 pt - Tablet View
22 pt - Mobile View

Heading 2

Roboto Bold
28 pt - Tablet View
20 pt - Mobile View

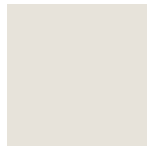
Color Scheme



#323232



#D2A08B

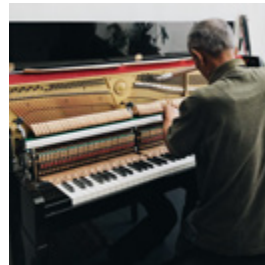


#E7E3DA

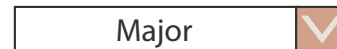
Body Copy

Roboto Regular/Light
18 pt - Tablet View
16pt - Mobile View

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation



Example of drop down menu

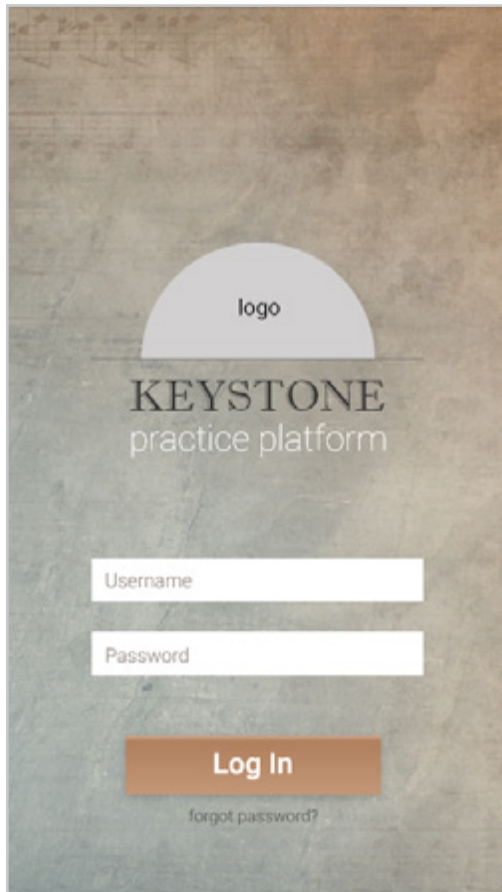


Example of Button

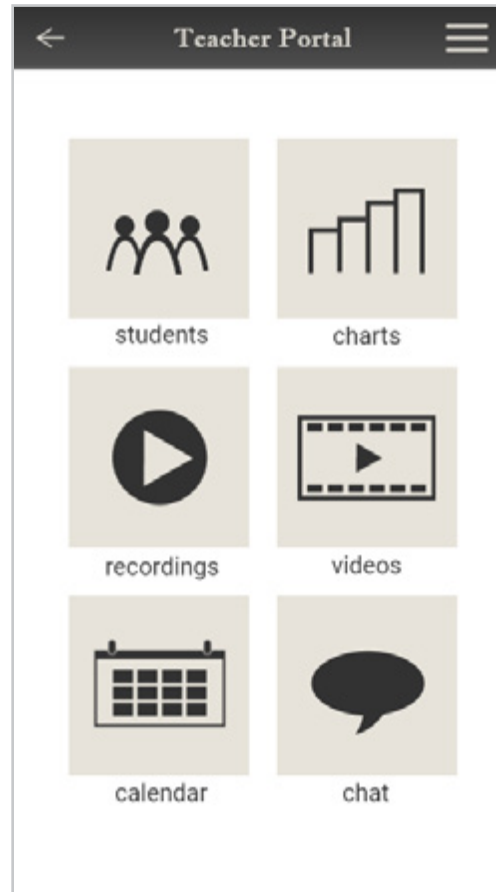


Prototypes: profession app

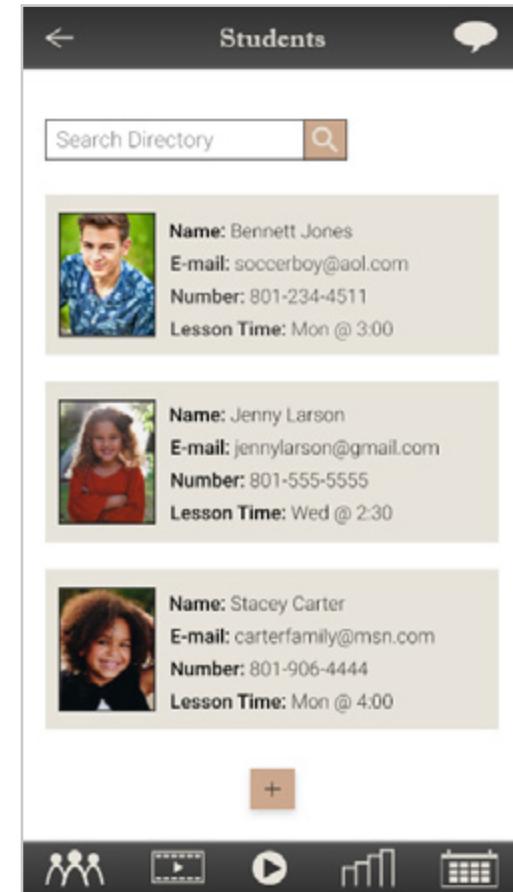
TEACHER MOBILE PLATFORM



Launch Screen



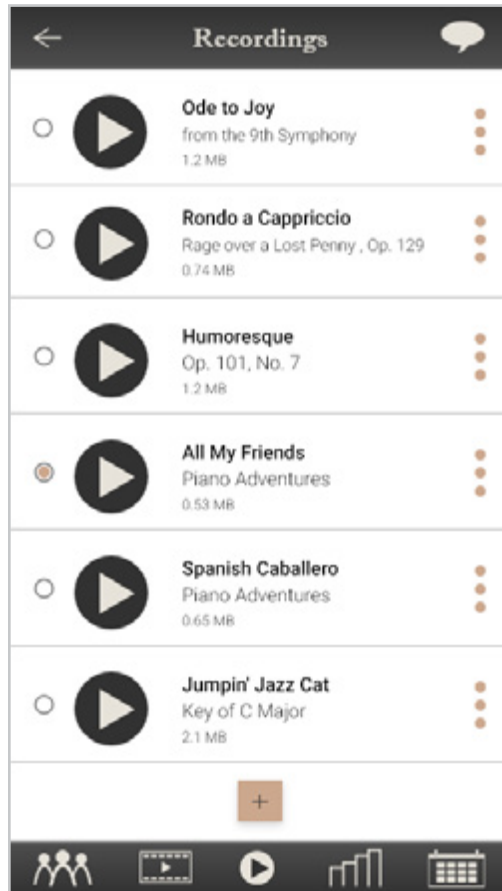
Teacher Portal Screen



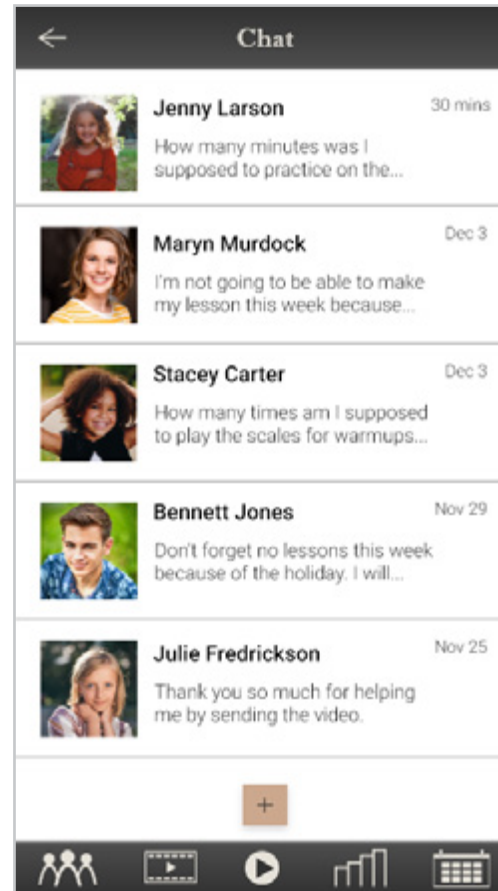
Student Directory Screen

Prototypes: profession app

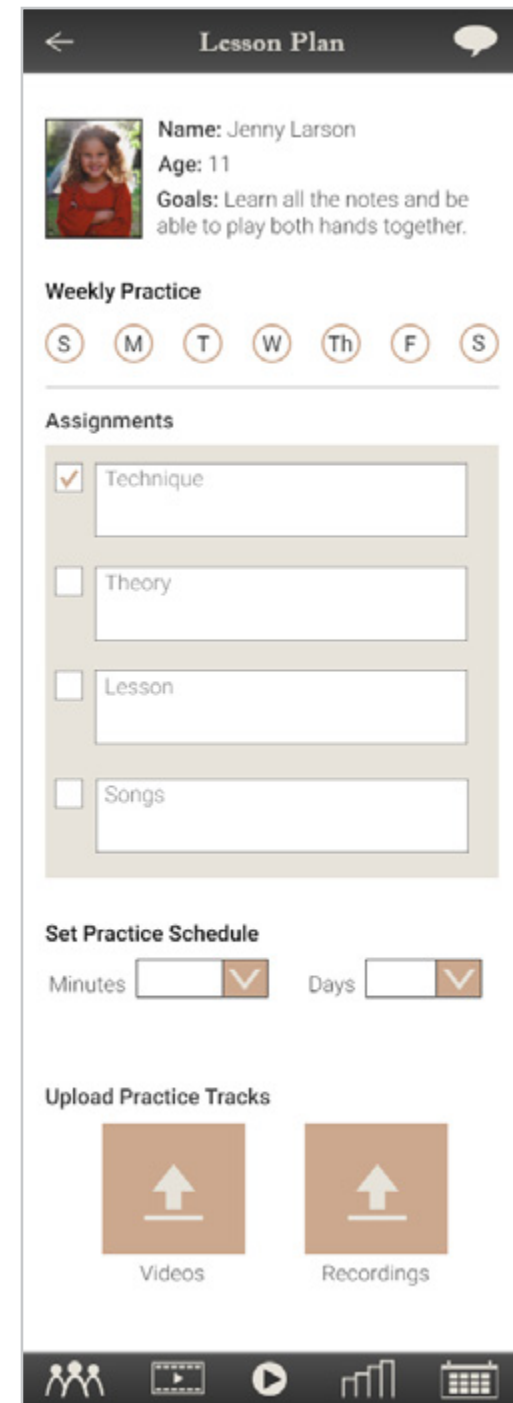
TEACHER MOBILE PLATFORM



Recordings Screen

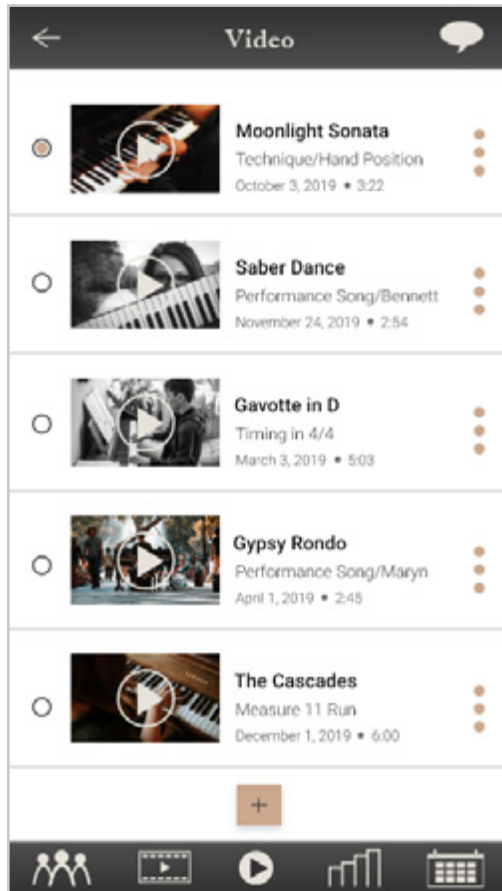


Chat Screen

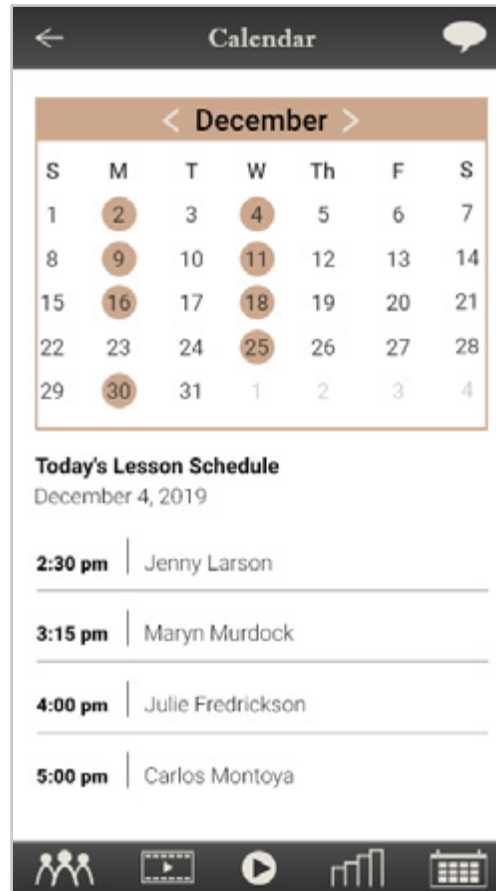


Prototypes: profession app

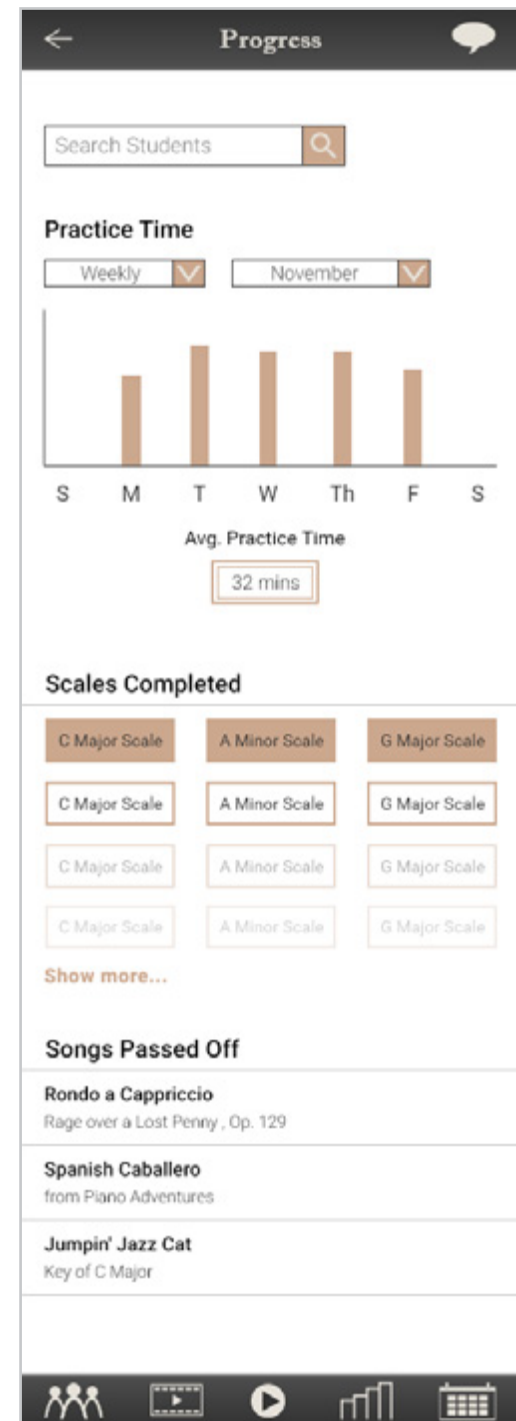
TEACHER MOBILE PLATFORM



Video Screen

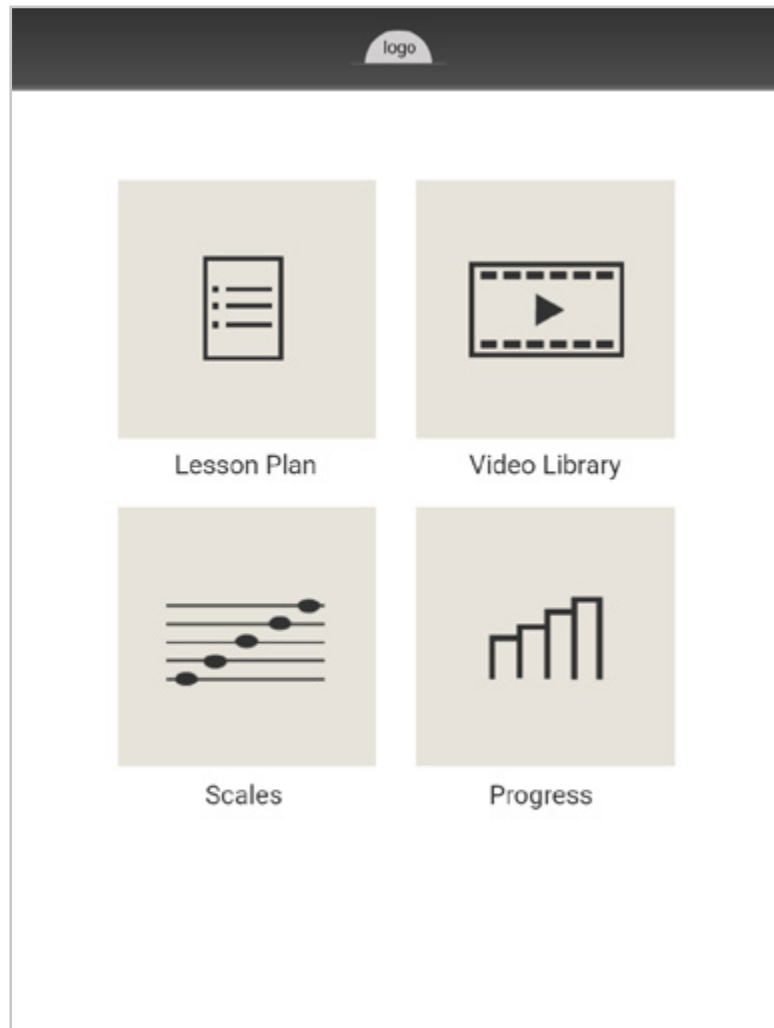


Calendar Screen

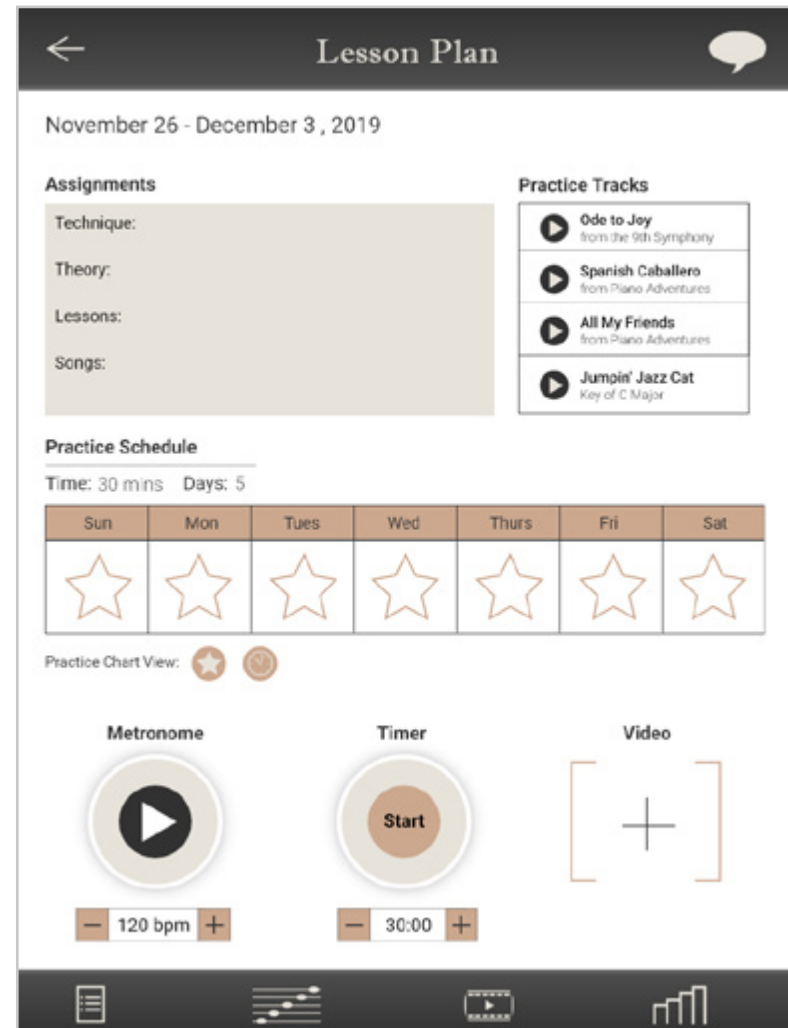


Prototypes: profession app

STUDENT TABLET PLATFORM



Home Screen for Tablet View



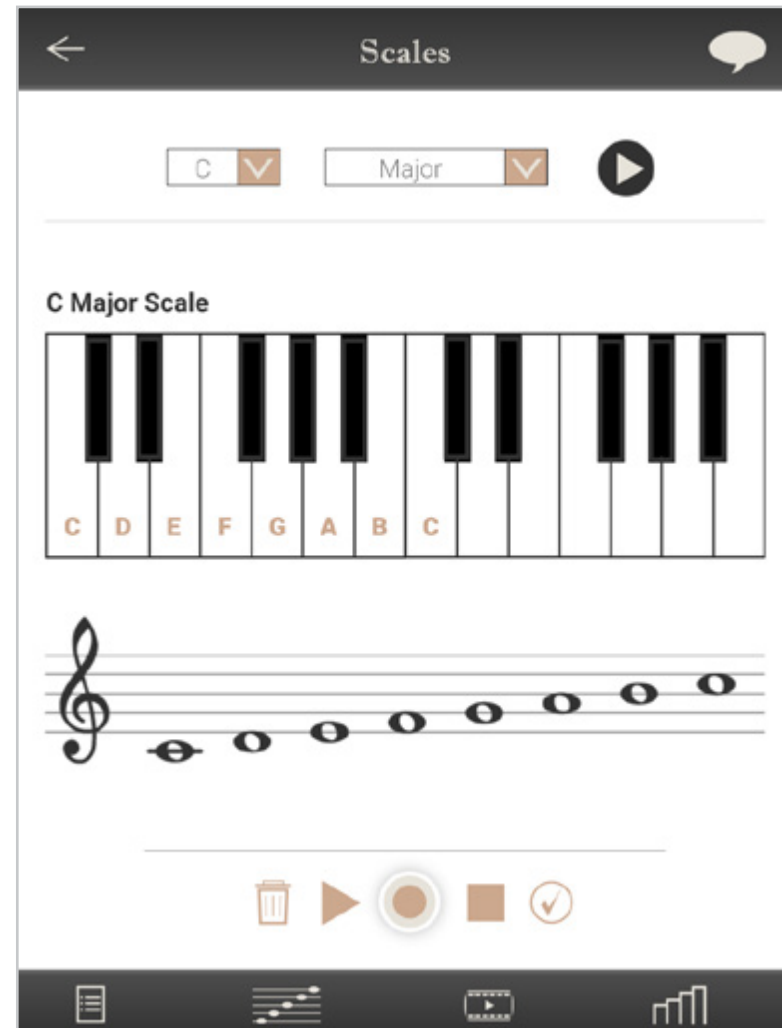
Lesson Plan Screen

Prototypes: profession app

STUDENT TABLET PLATFORM



Video Library Screen



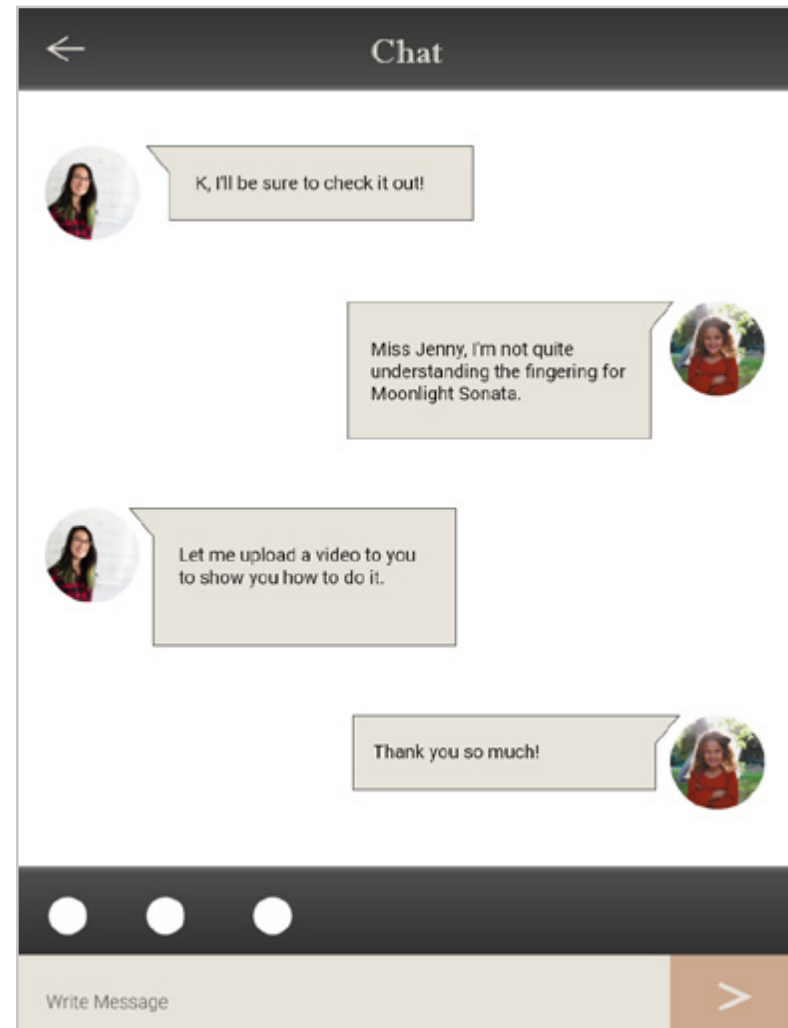
Scales Screen

Prototypes: profession app

STUDENT TABLET PLATFORM



Progress Screen



Chat Screen, the child will only be able to chat with the teacher

Target Audience: profession app

PERSONAS - STUDENT PLATFORM



Name: Bennett
Gender: Male
Age: 12
Job Title: Student
Education: Middle School
Seventh Grade
Goal: To progress in his piano studies



Name: Jenny
Gender: Female
Age: 9
Job Title: Student
Education: Elementary
School
Goal: Wants to learn piano



Name: Shawna
Gender: Female
Age: 42
Job Title: Payroll Clerk
Education: Associates in
Finance
Goal: To provide learning
through music

Scenario 1

Bennett is taking piano lesson from his teacher Sally. During the lesson, the teacher entered into his lesson plan and assigned three new scales to work on for the week. Bennett checked his lesson plan and he was assigned the following scales: A major, B Minor, and F# Major. He goes to the scales screen in order to find the backing tracks to help him practice.

Scenario 2

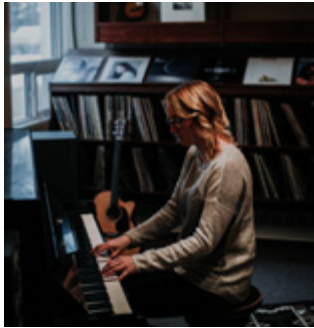
Jenny is a new student and she is struggling with knowing exactly how the fingering is on one of the songs. She messages her teacher Karen for some help. Karen asks her to record her hands as she plays and to send her the video. The teacher would like to give her feedback how to improve so she's not struggling the rest of the week and get discouraged on her practicing.

Scenario 3

Shawna is a Mom of 3 who believes music improves a child's academics. She is very involved in her children's lives and keeps up to date with everything they have to practice. One of her children was speeding up and slowing down on the song that she was practicing. Shawna suggested to the child to turn on the metronome so she could hear the correct beat to keep time. The song was supposed to be played about 90 bpm.

Target Audience: profession app

PERSONAS - TEACHER PLATFORM



Name: Karen
Gender: Female
Age: 32
Job Title: Piano Teacher
Education: Bachelor's of Arts
Goal: To find a platform to help track the progress of her students



Name: Sally
Gender: Female
Age: 38
Job Title: Piano Teacher
Education: Bachelor of Music and Composition
Goal: To teach and help students meet their goals



Name: Todd
Gender: Male
Age: 25
Job Title: Clerk at Guitar Center
Education: No formal education
Goal: To provide learning through music

Scenario 1

Karen has been teaching for 8 years. She received a message from her student Jenny that she was having trouble on one of her assigned songs. While messaging Jenny she found out which assigned song it was and sat down and recorded the songs to her phone. She needed to upload it to the platform in order to send it out to her student.

Scenario 2

Sally is a piano teacher that has been in this occupation for 13 years. She enjoys her job and loves connecting with her students. She keeps a personal profile of all her students including their pictures, favorite genre of music and what goals they would like to achieve by taking piano. She is teaching Bennett today and needs to access his lesson plans in order to assign new scales to practice.

Scenario 3

Todd is a musician who teaches piano students in the afternoons at Guitar Center. He bought the new Keystone Practice platform and wanted to put each of his student's in the directory and during their next lesson see if it's something their parent's would like to participate in. If so, he would need a picture of the student to enter and their personal information to put in the app.

User Tests: profession app

TEST 01

User: Macey

Occupation: Student

Age: 11

I tested the first scenario for the Student Platform on Macey and tasked her with finding the appropriate scales she needed to work on. She actually has taken informal piano lessons from me over the years. I gave her a home screen of the student version app and the scales screen. I also let her view what a lesson plan would look like. She immediately found the right box to click on and pretended to click on it. I was amazed at how familiar with the design conventions she was as she was saying what she thought was going to happen. On the scale screen she knew that if she clicked on the box it would have a drop down menu to choose between major and minor and she would use the other drop down menu to find out what key. I might need to make the backing track more identifiable. Right now there is nothing describing what the function is. I asked her if she wanted to record a track for her teacher what would you do? She immediately found the record button on the bottom. I asked her to save it also and she immediately went to the check mark.

For the lesson plan, she preferred having the timer and the metronome on the right. It was a little harder for her to find when it was on the bottom. She mentioned she would just like to have to push a button rather than putting in her time for practicing. This will be okay for younger students but older students would need to enter their time maybe I need to put in a choice.

I also showed her the horizontal view of the lesson plan and she said it was too crowded.

TEST 02

User: Anne

Occupation: Piano Teacher

Age: 44

There are 2 piano teachers in my family so their input definitely is welcomed. I tested Anne for the Teacher Platform. Anne said for the student screens she really liked having the contact info of each of her students so accessible and not just the picture. She also said it would be nice to know if they practiced but would like to know on a daily basis and was wondering if it was possible to have the M, T, W, TH, F in gray the have it light up if the student practiced for that day instead of just having a check mark? I was thinking that might clutter up the student screen a bit but I could move that to the individual lesson plan page of the student. She also said that an e-mail address on the contact info would be a good thing to add.

For the lesson plan page, Anne mentioned each student is different so the 3 areas that I defined may not be what they are working on. It would be better just to have an assignment section then have the text box where you can enter anything you want or even have things you can check to add if possible.

User Tests: profession app

TEST 04

User: Maryn

Occupation: Student/Piano Player

Age: 14

I tested Maryn with the digital wireframes and used multiple scenarios to help guide her through the app. She commented the launch screen was pretty straight forward. She got to the lesson plan and asked if the teacher was going to write in everything for her assignments or if that was something she needed to fill out. I showed her the teacher interface and showed how it was connected and she said that it made sense. Maryn immediately identified how to change the views of recording her time. Since, she was older, she would be required to type in her minutes instead of just pushing the star.

She was able to successfully find the metronome and set the timer for her practice. We went to the progress page and she wanted to know what the chart was exactly trying to say. I need to make that a little more clear. She recognized the highlighted stars on the progress page to be scales that she had passed off. She liked how the scales screen was set up.

At the end of the user session, she commented that she liked how simple the app was to use. She said she had come across a lot of apps which were way to complicated and made it frustrating to use.

TEST 05

User: Matt

Occupation: Electrical Engineer

Age: 41

I tested Matt with both platforms side by side showing on a tablet and a smart phone. I wanted to see if he could identify how they correlate and if I needed to make improvements across both platforms. His first reaction of the launch screen was the login and password looked very word processor-ish. He was pretty sure I could come up with something better than that. We viewed the lesson plan for the teacher and he said he thought the weekly practice indicator to show if they practiced probably be better situated on the progress screen. It didn't make sense to have it on the place where the teacher would be making the lesson plans for the week.

On the teacher portal he mentioned that I probably should change the charts icon to progress since the other buttons on the bottom corresponded to them and I had it labeled differently.

He also commented that instead of a drop down menu on the progress screen to use a search like I had on the student directory because if someone had 100 students it would be unbearable having to scroll through all the students to find the one you want to view.

On the progress screens for both platforms Matt wondered why I had not included a songs that have been pass off area or have been mastered.

User Tests: profession app

TEST 06

User: Anne Marie

Occupation: Piano Teacher

Age: 44

I had Anne Marie look at the app again in more of a finished look. She commented the design looks good and very clean. She likes the icons on the bottom. She was a little confused on the charts icon. She thought it was stairs and suggested to make it different lengths to more look like a chart. She got nit-picky and said the icon was more arpeggios than scales. She suggested on the chat to have it more rounded on the corners because it look blocky. She liked the profile pics for the directory and it was very easy to use. She also suggested to get rid of the line around the text boxes on the teacher lesson page. She said she absolutely loved the design on the tablet page for the child's tablet view and understands how it correlates to the teacher view. She commented that the bars on the graph seemed a little skinny. She did comment on the color of the accent color that it needed more a tint of red on it. I found I'm struggling knowing the true color because my monitor is showing differently then what it showing when I user test through the XD Design app on my mobile phone and tablet. The color definitely looks brighter on my screen then when I view on the mobile it's more brownish than I would like. Double line doesn't match the rest of the style. She suggested putting a thicker border on sides and top of the scale keyboard. She wanted to know if I could put a time and title on the big video. The arrows are a little light and they need to be darkened up. She pointed out everything lowercase on the Teacher Portal page and was wondering why?



Maryn testing out the beta version of the tablet view



KEYSTONE

practice platform

FINAL DESIGN

Final Design: profession app

DIGITAL MOCKUP

Digital mockup of Keystone Practice Platform app. Pictured is the Home screen. Background psd created by rawpixel.com - www.freepik.com.

VIDEO PRESENTATION:

<https://youtu.be/lrSooSJDxdg>

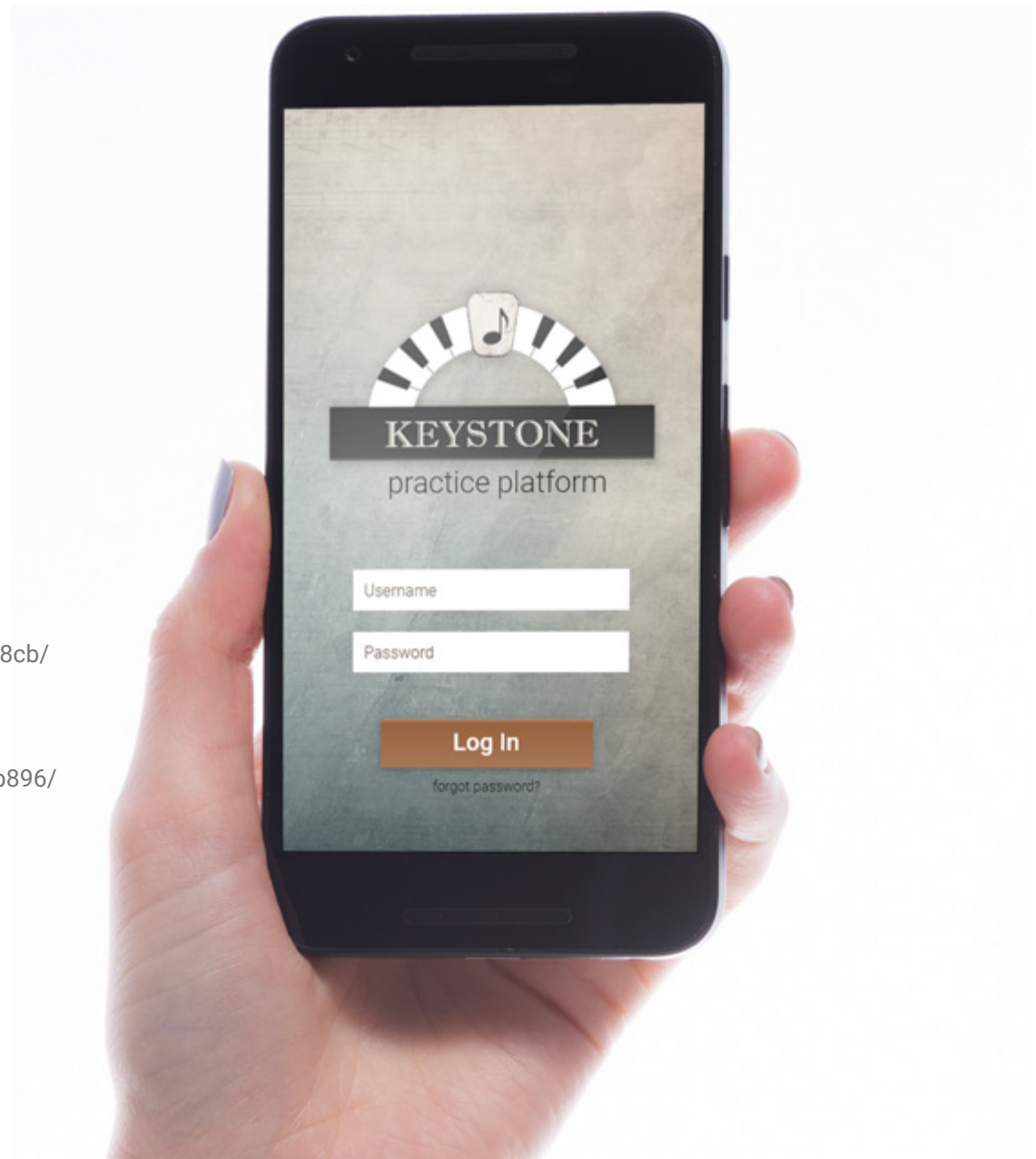
PROTOTYPE LINK:

Teacher Mobile Platform

<https://xd.adobe.com/view/7efae4b1-4bc3-4509-4cc9-31abf0dfffac-08cb/>

Student Tablet Platform

<https://xd.adobe.com/view/cea7f4d0-bf12-4ccc-609c-f95f683476a0-b896/>



Final Design: profession app

DIGITAL MOCKUP

Digital mockup of Keystone Practice Platform for the tablet view was designed by h3design and can be accessed at bit.ly/2IXF3Gx. The Lesson Plan Screen is featured in the screen view.

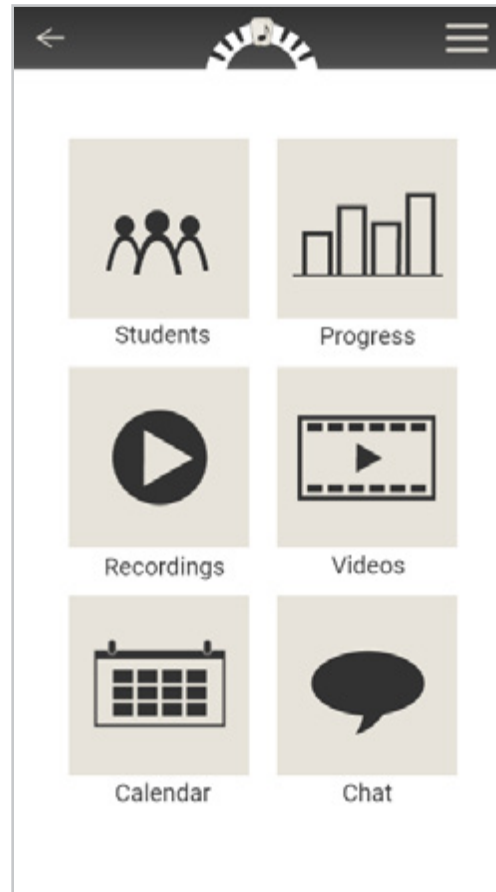


Final Design: profession app

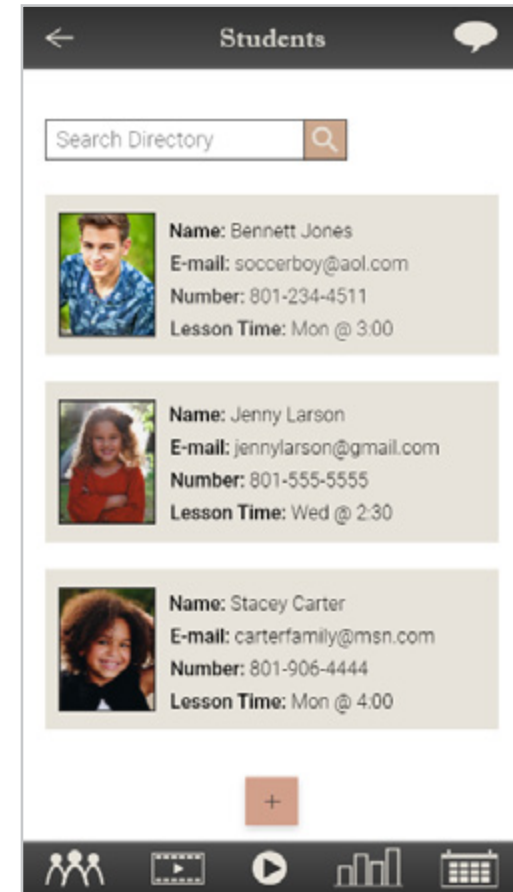
TEACHER MOBILE PLATFORM



The Launch Screen is password protected so sensitive information won't be accessed.



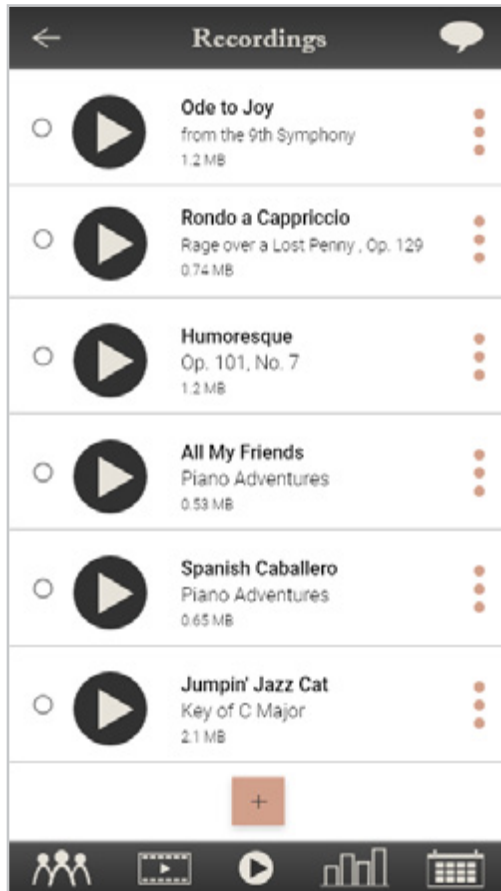
The Teacher Portal screen is a home page with all the functions of the app.



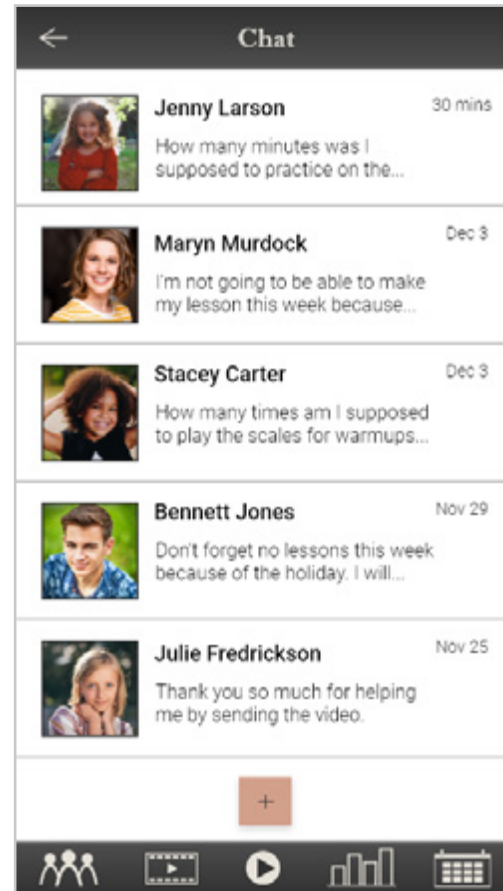
The Student Directory screen fulfills two purposes. It gives the information of each student in case the teacher needs to contact them and it's also a link to their lesson plan page.

Final Design: profession app

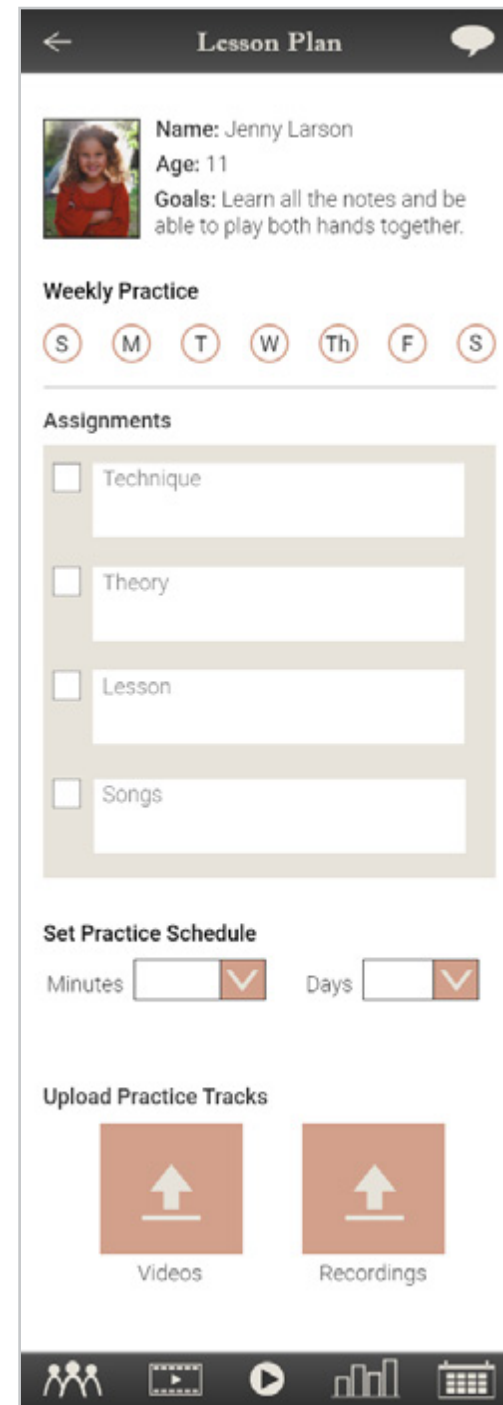
TEACHER MOBILE PLATFORM



The Recordings screen will be accessible from the lesson plan. When the teacher uploads recordings it will show up on student's lesson plan screen.



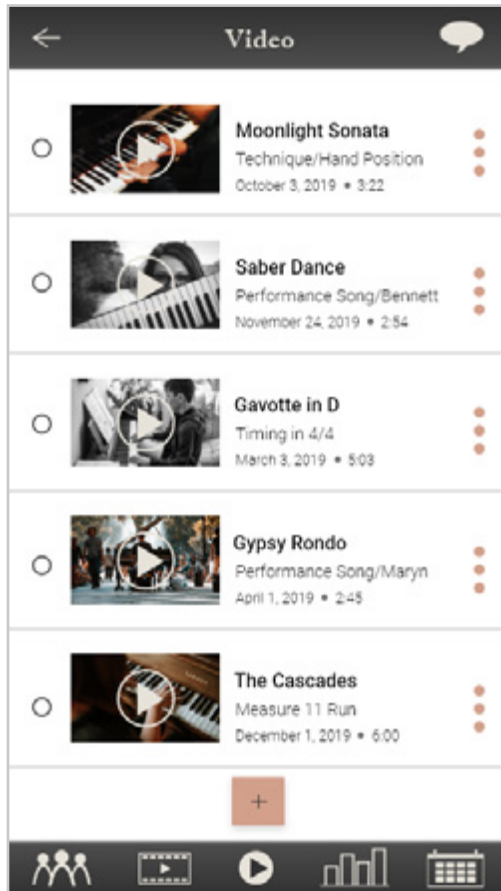
The Chat screen will allow access to all of the students directly under the teacher. The teacher can contact the student and the student will ONLY be able to communicate with the teacher.



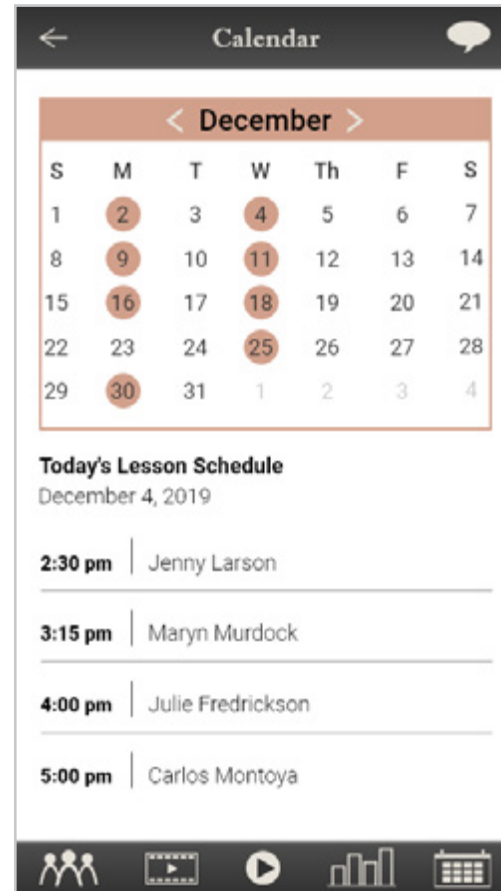
The Lesson Plan screen will be used to set up the student's lesson for the week. The information above the line will only be seen by the teacher. The weekly practice circles will fill in with color once the student records on their lesson plan screen they have finished their practicing. The teacher has the capability to customize each lesson plan according to what the student is working on. The teacher can set the amount of time and days the student should practice. That will also show up on the tablet view for the student to view.

Final Design: profession app

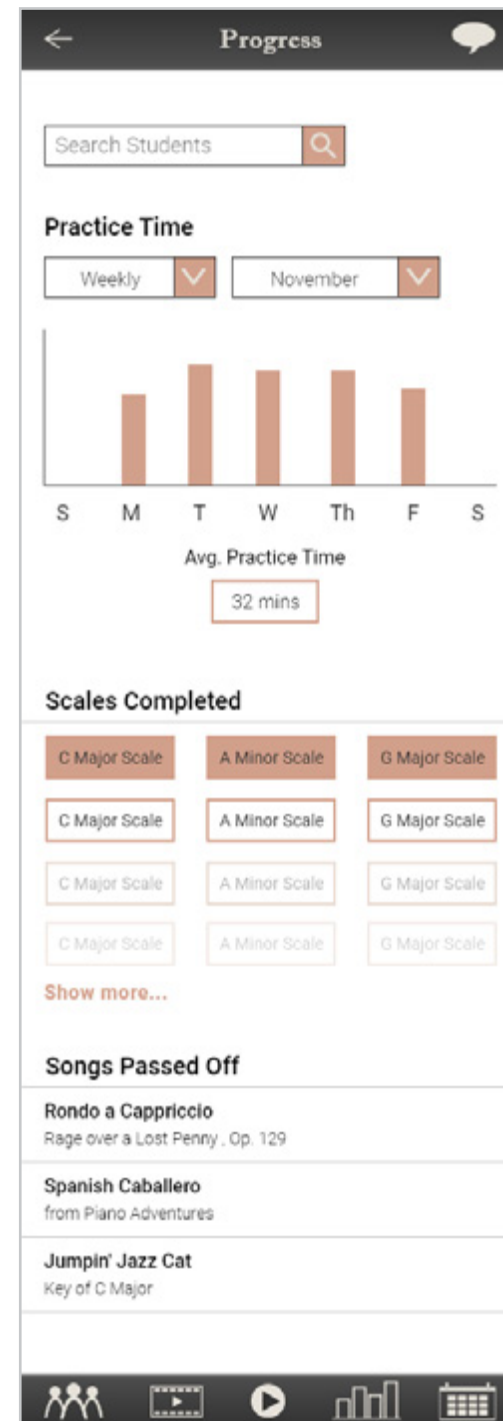
TEACHER MOBILE PLATFORM



The Video screen will contain all the videos needed to send to a student. If a student is needing a video, the teacher will select the video using the dot on the left, then use the three dots on the right to select options of what they would like to do with the video.



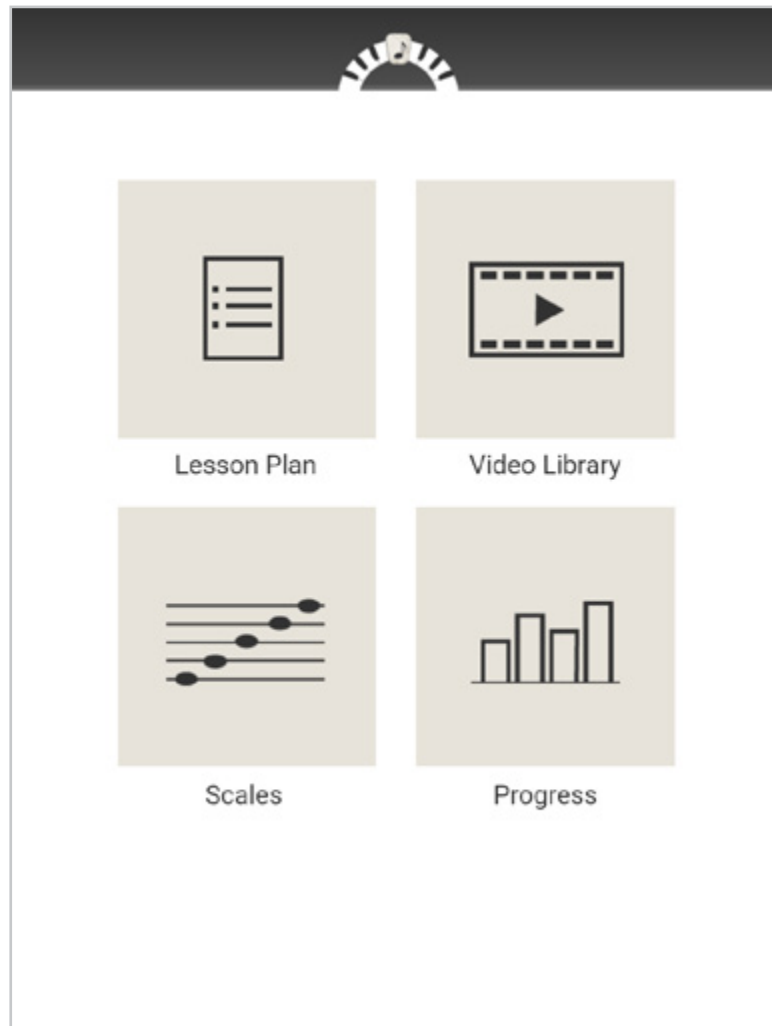
The Calendar screen will keep the teacher up-to-date each day showing which students have lessons.



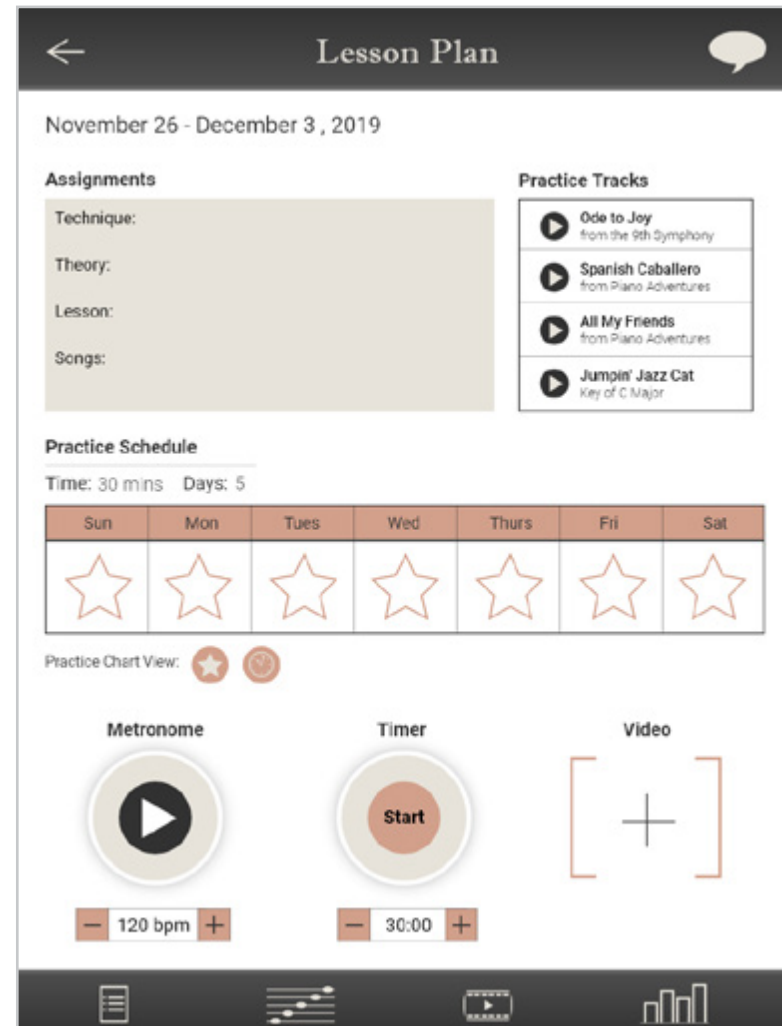
The Progress screen will allow the teacher to track students progress. If scales are completed the teacher can select the scale passed off and it will show up on the student's progress chart on the tablet view.

Final Design: profession app

STUDENT TABLET PLATFORM



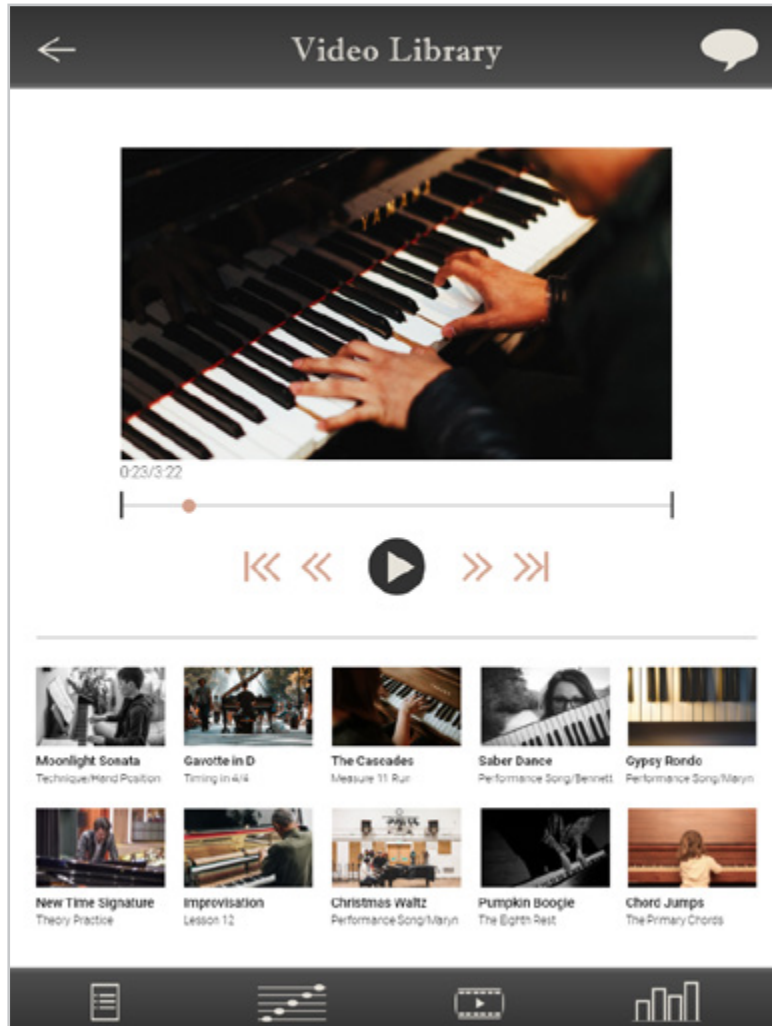
I wanted to keep the Launch screen for the student very simple. They have a choice of four functions to access.



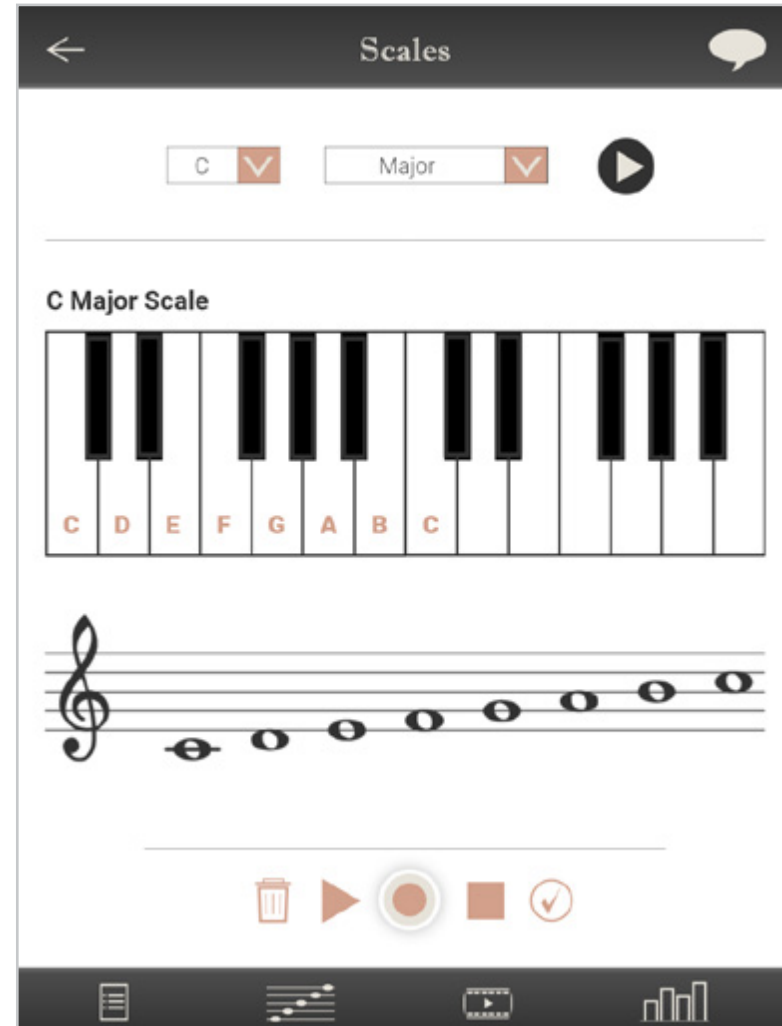
The Lesson Plan screen will be connected to the smart phone version of the app. When the student presses the star it will light up the day on the smart phone that the student practiced. Vice versa, the lesson plan that is entered into the mobile phone app will show up on the tablet version.

Final Design: profession app

STUDENT TABLET PLATFORM



The Video Library screen will be a place where the student can store all the videos the teacher may send to them to help with their practicing.



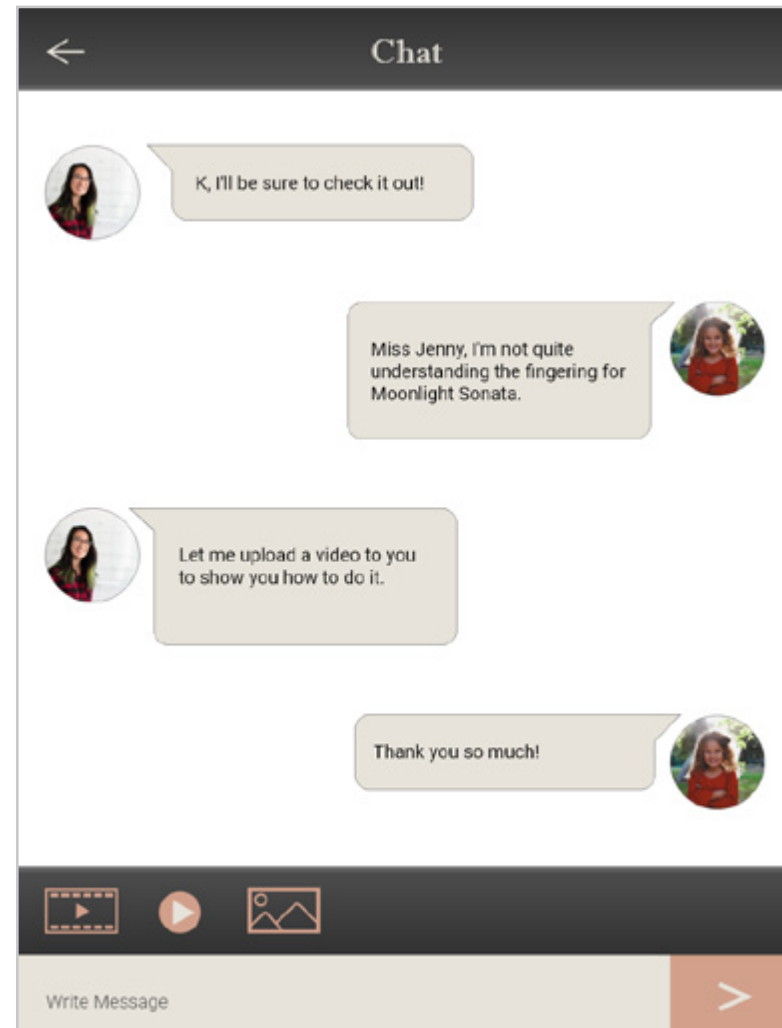
The Scales screen will help the student learn their scales by having visual help and also provide backing tracks to the scales to play along with.

Final Design: profession app

STUDENT TABLET PLATFORM



On the Progress Screen the student will be able to have visual cues as to where they are with their progress.



The Chat screen for the tablet view will ONLY contact the teacher.

Conclusion: profession app

GOALS

My goal for this app was to provide an interface that could feel connected but each have functionality geared towards their respective target audience. Early in my research, I surveyed parents and piano teachers to get a feel of what technology would best be suited for their needs. The parents expressed they would prefer having a tablet view for their child. While a lot of the piano teachers would love to also have their platform on a tablet, majority of them did not have access to one which left me to design for a smart phone.

USER TESTS

The user testing greatly influenced my design. I got to work with a piano teacher and get her input. She was a huge help on the lesson plan page as she told what her needs were as a teacher and what her own lesson plan would look like. She was excited for this app and asked when it could be developed. I also received feedback from piano students on what they liked and didn't like about the design. Youth are very perceptive and pick up on conventions of design very quickly and will be the first to tell you if something is not working for them.

EDUCATION

When first looking at this project I was very overwhelmed. I was trying to figure out all the details from the start. I learned that I needed to break down my process into smaller attainable goals instead of looking at the project as a whole. I also learned to allow myself to not get the design perfect from the start. I put a lot of pressure on myself to get things right at first and learned that developing a functional platform is a process. It was pointed out to me that updates can always be made to an app even after it is released if the user testing doesn't find all the flaws of the functionality of the app.

Resources: professional app

<https://www.awwwards.com/creative-ui-design-examples-for-great-ux.html>

<https://phys.org/news/2017-09-technology-revolutionise-smartphone.html>

<https://www.keyideasinfotech.com/blog/impact-of-smartphone-on-society/>

<https://www.behance.net/gallery/714500/Tiny-Gift>

<https://www.srishtis.com/>

https://en.wikipedia.org/wiki/Piano_pedagogy

<https://www.thecuriouspianoteachers.org/history-of-piano-teaching-part-1/>

<https://www.pinterest.com/inonectima/>

<https://www.redspotdesign.com/>

<https://topmusic.co/lesson-plan-templates-piano-teachers/>

<https://pixabay.com/illustrations/music-staff-blue-brown-scrapbook-762842/>

<https://www.vecteezy.com/vector-art/118332-vector-cracked-concrete-texture>

<https://pixabay.com/vectors/piano-keys-octave-music-keyboard-307653/>

<https://pixabay.com/vectors/music-scale-notes-musical-melody-38675/>

<https://pixabay.com/photos/piano-keyboard-music-musical-4481073/>

<https://pixabay.com/photos/pianist-music-musical-musician-1149172/>

<https://unsplash.com/photos/YOtOiHdwPqo>

<https://unsplash.com/photos/kgI-zb85Co8>

<https://pixabay.com/photos/piano-lesson-piano-music-keyboard-4622218/>

Resources: professional app

<https://unsplash.com/photos/BhfE1lgcsA8>

<https://unsplash.com/photos/FJYpElcoWBk>

<https://unsplash.com/photos/c-mgSuxqpzA>

<https://piano-music-theory.com/2016/05/31/major-scales/>

<https://unsplash.com/photos/VSYVwkHT-dg>

<https://unsplash.com/photos/OWi1sIWICAI>

<https://unsplash.com/photos/oC1RmrCuDA4>

<https://unsplash.com/photos/FJYpElcoWBk>

<https://unsplash.com/photos/nFp2vmoJEM4>

<http://www.piano-play-it.com/12-major-scales.html>

<https://unsplash.com/photos/ILip77SbmOE>

<https://unsplash.com/photos/sTxnxL4O2AA>

<https://pixabay.com/photos/music-piano-playing-music-classic-1178180/>

<https://pixabay.com/photos/piano-artist-music-musician-3500298/>

<https://unsplash.com/photos/RvRnXvwliIQ>

<https://unsplash.com/photos/uUd7EGuSwfw>