

ID	Name	Description	Priority	Rationale
Users				
1	Account Creation	The user shall create a new account.	1	Allows the user to save progress, tracking their progress.
1.1	Experience Level	The user shall select their level of experience: Beginner, Intermediate, Advanced.	1	Allows the user to find music that suits their experience level or abilities.
1.2	Streaks	The user shall see how many consecutive days they have played at least one song for.	2	This will incentivize the user to use the app frequently.
1.3	Set Password	The user shall create a password with the following requirements:	1	Enables the user to set a password for their account.
1.3.1	Password Length	The user shall create a password that is at least 8 characters in length.	1	Ensures the user has a strong password.
1.3.2	Special Characters	The user shall create a password that contains at least 1 number or special characters.	1	Ensures the user has a strong password.
1.4	Reset Password	The app shall allow users to reset their password.	2	Allows the user to reset their password in case it is forgotten.
1.4.1	Security Question	The user shall be able to reset their password using a security question.	2	Allows the user to reset their password using a security question.
1.5	Teacher Profile	The user shall create a Teacher profile	1	Allows the user to serve as a teacher.
1.5.1	Class Creation	The teacher shall create a class.	1	Allows users to serve as a teacher assigning homework to help students learn.
1.5.2	Enroll Students	The teacher shall add students to their class	1	Allows users to enroll students in a class.
1.5.3	Lesson Assignment	The teachers shall assign a lesson to their students.	2	This gives teachers the ability to teach and assign work.
1.5.4	Song Assignment	The teacher shall be able to assign a song to a student.	2	Allows the user to get feedback from a professional.
1.6	Student Profile	The user shall create a Student profile.	1	Allows the user to serve as a student to join a group led by a teacher.
Modules				
2	Module Creation	The app shall contain modules.	1	This allows the user to learn educational material.
2.1.1	Module Title	A module shall contain a title.	1	Enables the user to understand briefly what the lesson will be about.
2.1.2	Module Song	A module shall contain songs.	1	Allows the user to learn material in conjunction with a song.
2.1.3	Module Lesson	A module shall contain lessons.	1	This allows the user to learn educational material progressively by breaking down units.
2.1.3.1	Lesson Title	A lesson shall contain a title.	1	Enables the user to understand briefly what the module will be about.
2.1.3.2	Lesson Paragraph	A lesson shall contain a paragraph of educational material.	1	Provides the user with educational material to learn from.
2.1.3.3	Lesson Picture	A lesson shall contain an image aid.	1	Provides the user a visual aid to help with their learning.
2.2	View Module	The user shall be able to view a module.	1	Allows users to familiarize themselves with instrument layouts .
2.3	Module Progress	The user shall be able to view their module progress.	1	Enables user to stay motivated and engaged by monitoring improvements.
2.3.1	Save Progress	The user shall have their progress saved.	1	Allows the user to keep track of their progress to help motivate them in completing lessons.
2.4	Educational Quiz	The app shall provide the user with a daily music theory question.	2	Helps the user retain information and learn new snippets of information.
Practice				
3.1	Practice songs	The user shall select a song to practice	1	Practice is one of the main methods of learning music
3.1.1	Piano Sheet Music	- The user shall view the sheet music of a song, including:	2	For piano compositions
3.1.1.1	Piano notes	-- The notes	2	So the pianist can play along
3.1.1.2	Piano Song Lyrics	-- The lyrics	2	Useful so the pianist can sing along
3.1.1.2.1	Optional	---Adding lyrics shall be optional	2	Not all songs contain lyrics
3.1.1.3	Modify Sheet Music	---The user shall modify sheet music:	2	Gives the user the accessibility to modify and edit to their own preferences
3.1.1.3.1	Slow music down	--- The user shall pick a speed between 1 (low) to 5 (high) for the line by line sheet music display.	2	Gives users the ability to play and practice at the speed they are most comfortable with.
		---- Speed 1: 20% of original speed.... increasing by 20%		
3.1.1.3.2	Highlight Sections	--- The user shall highlight sections of the sheet music.	3	Allows the user to note specific sections of music they wish to focus on.
3.1.2	Guitar Tabs	- The user shall view the tabs of a song, including:	1	For guitar compositions
3.1.2.1	Guitar Chords used	-- The chords	1	This will allow the user to practice music without having to search which chords belong to each key
3.1.2.2	Guitar Song Lyrics	-- The lyrics overlaid with chords (not optional, as most guitar songs have lyrics)	1	Useful so the guitarist can sing along
3.1.2	Incorrect Note Feedback	- The system will indicate when a user plays a note incorrectly.	1	Enhances user learning by visually reinforcing correct actions and correcting mistakes
3.2	Music Library	The user shall select from a library of default songs	1	Enables the user to learn and progress without having to make their own music before they desire to
3.2.1	Music Library Sort	- The user shall sort the library by author, genre, or title	1	Allows users to find music quicker and easier.
3.3	Shared songs	The user shall select from songs shared by other users	2	Allows communication and collaboration between users
3.4	Practice Compositions	The user shall practice songs they have composed	1	Allows user to test their compositions
3.5	Playlist Creation	The user shall add songs to a playlist	2	Allows quick access to favorite songs
3.6	Point system	The user shall gain a point each time they complete a song	3	Gives the user motivation to keep up with lessons.
3.7	Song Preview	The user shall hear a preview of the selected song	2	Gives the user context for which song they would like to practice
3.8	Song rating	The user shall rate songs on a scale of 1 (worst) to 5 (best)	3	User can give feedback on the quality of the song
3.9	Virtual Instrument	The user shall play a virtual instrument	1	The user must have an instrument on-screen to learn the music.
3.9.1	Select note	- The user shall select a note or chord to play	1	User must have the ability to select notes of the instrument to play
3.9.2	Play note	- The user shall hear the selected note play	1	User must be able to hear the selected notes
3.1	Metronome	The user shall be provided a metronome function	3	Metronomes are very useful for staying on beat, but not necessary for the app
3.10.1	Track BPM	- The metronome shall keep track of the BPM	3	This is the main functionality of a metronome
3.10.2	Set BPM	- The user shall set the BPM of the metronome	3	Different songs have different BPMs. The metronome must be able to adjust to this
3.10.3	Toggle Metronome	- The user shall toggle the metronome function on/off	3	User must have the freedom to use or not use the metronome
3.11	Tuner Function	The user shall tune their instrument using the app	3	For users with physical instruments, a built-in tuner function would be useful.
Composing				
4.1	Song Creation	The user shall create songs	1	Gives the user creative freedom in the app
4.2	Exporting Songs	The user shall export songs as a pdf	2	Allows the user to share and print the song
4.3	Song Sharing	The user shall share their songs with other users	3	Adds social element to the app
4.4	Song Visibility	The user shall toggle the visibility of the song:	1	Many users are protective of their work and would like to choose if their songs are visible to others
4.4.1		-Private (only the user can view)	1	In case the user does not want anyone to see their work

4.4.2	-Friends (only friended users can view)	3	In case the user wants only their friends to see their work
4.4.3	-Public (every user can view)	1	In case the user wants to share their work with everyone
4.5	Audio	1	The user must hear the song to be able to compose what they intend
4.6	Tabs	1	Important for guitar songs
4.6.1	-Chords	1	This is the building block for guitar songs
4.6.1.1	--Finger placement for each chord	2	User may not know the finger placement for each chord
4.6.1.2	--Name of the chord	1	Chord names are necessary for the user to play the right notes
4.6.1.3	--Strings to strum (letter)	2	Some chords do not strum all 5 strings. Would be a priority 3, but is a quick implementation
4.6.2	-Lyrics	1	Important for guitar songs including lyrics
4.6.2.1	--Chords lining up with the lyrics	1	So that the guitarist can play and sing at the same time
4.7	Sheet Music	2	Important for piano songs
4.7.1	- The user shall add notes, specifying:	2	Adds notes to the song
4.7.1.1	-- pitch (A letter)	2	Shows what note to include in the sheet music
4.7.1.2	-- length (number in terms of 32)	2	Specifies the length of the note to be displayed in the sheet music
4.7.2	- The user shall add rest notes, specifying length (number in terms of 32)	2	Helps add complexity to the song
4.7.3	- A measure shall consist of a number of notes, depending on the time signature	2	Length of a measure
4.7.4	- A song shall consist of a set of measures (1 to infinite)	2	Song can be as long as the user wishes
4.7.5	- The user shall specify the time signature of the song	3	Specifies the time signature of the song