

1 Name		Requirement	Priority	Rationale	Author
System					
1	Account	The system shall store user accounts, containing:		1 Allows users to create an account for basic security and to create individual libraries and progression	
1.1		A username	1		
1.2		A password	1		
1.3		User's first name	2		
1.4		User's last name	2		
1.5		User's written songs	2		
1.6		User's favorited songs	2		
1.7		User's lesson progression	3		
2	Signup	The user shall create an account, inputing:		1 Allows users to input basic personal information to create an individual profile	
2.1		A username	1		
2.2		A password	1		
2.3		A first name	2		
2.4		A last name	2		
3	Login	The user shall login using:		1 Allows users to create unique login info	
3.1		Username	1		
3.2		Password	1		
4	Storage	The system shall store song (See 5 through 13)		1 Allows users to store and interact with various subsystems	
Storage					
5	Song	The system shall store music as a collection of:		1 Allows users to store the musical components and metadata of at least one song	
5.1		Musical Componentets (See 17 through 20)	1		
5.2		Metadata, including:	1		
5.2.1		Title	1		
5.2.2		Author	1		
5.2.3		Description	2		
5.2.4		Genre	2		
5.2.5		Difficulty	3		
5.3		Public Interaction, including:	3		
5.3.1		Comments	3		
5.3.2		Ratings	3		
6	Favorite	The user shall mark music as "favorited"		2 Allows users to "favorite" songs which they can access	
7	Library	The user shall view a selection of:		1 Enables users to access catalog of music files	
7.1		Publicly available music	1		
7.2		Music created by the user	1		
7.3		Favorited music	2		
8	Create	The user shall create a:		1 Enables users to create a blank music file to start composing with	
8.1		Blank song	1		
8.2	Edit	Copy of an existing song	2		
9		The user shall edit songs they have created		1 Allows user to edit sheet music	
10	Publish	The user shall add their song to the public library		2 Allows users to publish completed songs to the public library	
11	Rate	The user shall rate a public song on a scale from 1 to 5		3 Allows users to rate publicly available songs based on perceived value	
12	Comment	The user shall add a comment to a public song		3 Allows users to comment on a song	
13	Open	The user shall open a song from their library to play it		1 Enables users to access any song they wish within a given music catalog	
Song Interface					
14	Song Player	The user shall interact with a song player, including:		1 Allows users to access any part of the song they wish	
14.1		A part select	2		
14.2		A selected measure	1		
14.3		A play button that:	1		
14.3.1		Moves the selected measure forward in tempo	1		
14.3.2		Plays the song audio from the starting measure in tempo	1		
14.4		A pause button that pauses on the current measure	1		
14.5		A stop button that returns to the measure where playing began	3		
14.6		A restart button that selects the first measure	3		
14.7		A rewind button that:	2		
14.7.1		Moves backward 1 measure at a time when tapped	2		
14.7.2		Moves backward multiple measure in succession when held	3		
14.8		A fast forward button that:	2		
14.8.1		Moves forward 1 measure at a time when tapped	2		
14.8.2		Moves forward multiple measure in succession when held	3		
15	Metronome	The user shall toggle a metronome that follows the beat of a song		2 Allows users to enable or disable metronome for the song	
16	Scroll	The user shall scroll music:		1 Allows users to scroll manually or automatically through any song	
16.1		Manually	1		
16.2		Automatically as a song is playing	2		
Music Components					
17	Tempo	The system shall store the tempo of a song		1 Allows users to view the tempo of a song	
18	Key Signature	The system shall store the key signature of a song, consisting of:		2 Allows users to view the key signature of a song	
18.1		The tonic note of the key	2		
18.2		The mode of the key	3		
19	Time Signature	The system shall store the time signature of a song, consisting of:		2 Allows users to view the time signature of a song	
19.1		The length of measures in the song	2		
19.2		The division of measure in the song	3		
20	Measures	A song shall contain 1 or more measures, each containing:		1 Allows users to view at least one measure and its components per song	
20.1		0 or 1 chord, consisting of a:	2		
20.1.1		Root Note	2		
20.1.2		Chord Category	2		
20.1.3		Chord Expansions	3		
20.2		1 or more instrument parts, containg	1		
20.2.1		0 or more Notes, consisting of:	1		
20.2.1.1		Pitch	1		
20.2.1.2		Beat	1		
20.2.1.3		Duration	1		
20.2.1.4		Supplemental text	2		
20.2.2		0 or more Rests, where nothing is played for a given duration	1		
Miscellaneous					
21	Training	The user shall access musical training, including:		2 Allows users access various educational resources that can assist in learning music	
21.1		Flash cards, with info on:		2	
21.1.2		Chords		2	
21.1.3		Notes		2	

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21.1.4		Scales	2		
21.1.5		Time Signatures	2		
21.1.6		Key Signatures	2		
21.2		Lessons, containing:	3		
21.2.1		Songs, ordered in terms of difficulty	3		
21.2.2		Flash card quizzes	3		
22	Filter	The user shall search for songs based on:	2	Allows users to search songs based on title, genre, tempo, etc	
22.1		Title	2		
22.2		Genre	2		
22.3		BPM	3		
22.4		Length	3		
22.5		Difficulty	3		
22.6		Key Mode	3		
23	Sort	The user shall sort songs based on:	2	Allows users to sort songs available to them based on specified filters	
23.1		BPM	2		
23.2		Length	2		
23.3		Difficulty	3		
24	Views	The user shall alternate between 3 views:	2	Allows users to alternate between sheet music, tab or grid styles	
24.1		Sheet Music	1		
24.2		Tablature	2		