Release Plan
Spotify Tags
Release Date: Wednesday, 15 March 2023
Revision 1
Revision Date: Wednesday, 30 January 2023

High Level Goals:

- Use SpotifyAPI to make a web-based music player.

- To be able to add tags to songs.

- To see a list of songs that depends on what tags are selected in a given expression.

- To play that list of songs.

User stories for release:

- **Sprint 1**

    - (13) As a listener, I want to be able to see a list of songs available to play so that I know what songs I can choose from.

    - (5) As a listener, I want to click a song and for it to play so that I can listen to the song.

    - (3) As a listener, I want to be able to press pause/play to pause/unpause the music, so that I can start or stop the music when I want to.

- **Sprint 2**

    - (21) As a listener, I want to be able to add and delete tags from songs so that I can customize the tags on

each song.

- (13) As a listener, I want to be able to enter an expression that changes the available list of songs so that I can only view the songs I want to at a certain time.

- (3) As a listener, I want to be able for the music to go directly into the next song after one song ends, so that I don't have to select every song to listen to.

- **Sprint 3**

  - (3) As a listener, I want to be able to skip songs, so that I can skip over songs I don't want to listen to at the moment.

  - (5) As a listener, I want to be able to queue songs, so that I can temporarily listen to songs out of order before returning to that order.

  - (3) As a listener, I want to be able to have automatically added tags like artist and album, so that I can automatically listen to songs of the same artist or from the same album without adding tags to each song.

- **Sprint 4**

  - (8) As a listener, I want to be able to sort the list of songs so that I can see them in an order that makes sense to me.

  - (13) As a listener, I want to be able to save my data so that next time I can continue where I left off with all of my tags inputted.

Product backlog:

- (13) As a listener, I want to be able to have automatically suggested tags so that I can more easily add similar tags to similar songs.

- (13) As a listener, I want to be able to group tags together so that I can add groups of tags faster and easier.

- (8) As a listener, I want to be able to listen to the list of songs in a random order, so that even I play the same group of songs I don't hear them in the same order every time.

- Save previously used tag expressions.

- Show playback position & scrub through position

Project presentation:

- 🅿 Spotify Tags Initial Presentation.pptx

Sprint 1
Sprint 2
Sprint 3
Sprint 4

Will Do	Should Do	Might Do

● (13) As a listener, I want to be able to see a list of songs available to play so that I know what songs I can choose from.
  ○ Create React front end to display songs
  ○ Refresh access token automatically
● (3) As a listener, I want to click a song and for it to play so that I can listen to the song.
  ○ Set up SpotifyPlayerSDK to play music
	● (3) As a listener, I want to be able to skip songs, so that I can skip over songs I don't want to listen to at the moment.
	  ○ Create React skip button component
	  ○ Hook the button up to skip the current song
	● (8) As a listener, I want to be able to sort the list of songs so that I can see them in an order that makes sense to me.
	  ○ Create a front end interface to choose a method of sorting.
		● (13) As a listener, I want to be able to have automatically suggested tags so that I can more easily add similar tags to similar songs.
		  ○ Looks through the tags currently on the song and finds other songs with that tag and inspects their tags to find common tags that are added together.
		  ○ Implements interface to add these suggested tags
		● (13) As a listener, I want to be able to

- On click on a song, use Spotify API to play the song
- (21) As a listener, I want to be able to add and delete tags from songs so that I can customize the tags on each song.
  - Store the tags data in a database
    - key: (user ID, Spotify song ID), value: list of tags
  - Create a server to access the database from frontend.
    - methods to get and put a list of tags by Spotify song ID & user ID
  - Create search bar frontend component
    - statically mounted at top of page under expression area
  - Create a component to display the songs in Spotify (and that aren't in your library).
    - shows up when click on search bar, disappear when click off or click on song
    - automatically updates as you type
    - searches for songs in the library for that user, displays song img, artist, album (no tags?)
  - Create a component to display the songs in your library.
    - shows up when click on search bar, disappear when click off or click on

- Use JS to sort the list of displayed songs based on the sorting described.
- (5) As a listener, I want to be able to queue songs, so that I can temporarily listen to songs out of order before returning to that order.
  - Implement a queue of songs to be played before continuing with the list. When going to the next song, take from the queue if there are any songs there.
- (13) As a listener, I want to be able to save my data so that next time I can continue where I left off with all of my tags inputted.
  - Create login page in frontend
  - Create user data in the database
  - Automatically save the data at a time that makes sense.
- (3) As a listener, I want to be able to have automatically added tags like artist and album, so that I can automatically listen to songs of the same artist or from the same album without adding tags to each song.
  - Use Spotify API to get the artist and album information to make special tags (that are not removable).

group tags together so that I can add groups of tags faster and easier.
  - Create a data structure to store the group of tags in.
  - Allow for a group of tags in place of anywhere where tags were previously allowed in the implementation.
- (8) As a listener, I want to be able to listen to the list of songs in a random order, so that even I play the same group of songs I don't hear them in the same order every time.
  - Take songs randomly from the list instead of going in order (don't replay last X songs? specified?)
- Save previously used expressions?
- Show playback position & scrub through position

song
- ■ automatically updates as you type
- ■ searches for songs in spotify, displays song img, artist, album
- (3) As a listener, I want to be able to press pause/play to pause/unpause the music, so that I can start or stop the music when I want to.
  - ○ Create React play button component
  - ○ Hook the button up to start or stop the music.
- (13) As a listener, I want to be able to enter an expression that changes the available list of songs so that I can only view the songs I want to at a certain time.
  - ○ Construct the statement
  - ○ Parse the statement and update list
    - ■ make function that determines if a songs tags adhere to given expression
    - ■ use that function to filter library (js filter function), or filter in Postgres
- (3) As a listener, I want to be able for the music to go directly into the next song after one song ends, so that I don't have to select every song to listen to.
  - ○ Use spotify to add songs to queue
    - ■ add songs below current song?

(x) As a {user role}, I want {goal} [so that {reason}]