Feature Request: Next Page

**June 22, 2021**

# **OBJECTIVE**

To allow the user to see more than the first 20 search results from a search query.

# **BACKGROUND**

Currently Jammming will display the initial 20 search results for a query. If the user is looking for a track that is not in the top 20 of the results, they will not see the track they are looking for.

This feature will accomplish the following:

* Upon running a search, Jamming will return the first 20 tracks
* Below the last track will be a next button which will run the search again, but with an offset.
* When the next page of results load, below the last track will be buttons to go to the previous page, or to the next page.

# **TECHNICAL DESIGN**

A new state, **searchOffset**, will be created with a default value of 0. The value of this state will be added as a parameter to the **Spotify.search** method. This **searchOffset** will then be included in the search fetch request.

A **Next** method and a **Back** method will be added to the **App** component that will increase the searchOffset state by 20 or reduce it by 20, respectively. These methods will be passed to the **SearchResults** component and then the **TrackList** component as props.

The **TrackList** component will have methods that call the Next and Back prop methods. The render method will have logic to display a <Next> button if the **searchOffset** state is <= 1000 (the maximum allowed offset in the Spotify search API). If the **searchOffset** state is >= 20 then it will also render a <Back> button.

# **CAVEATS**

This implementation will result in fetch requests to the Spotify API each time the user cycles through pages. This could result in excessive fetch requests or a slow user experience if the user wishes to go forward and backward often. A possible future optimization could involve keeping a larger local **searchResults** state and only issuing fetch requests when the **searchOffset** would result in results that have not already been fetched.