Feature Request: Next Page

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# **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**

The **Spotify.search** method will be modified to accept a second parameter, *offset* which will fed to the fetch request to the Spotify API. This offset value determines which results are returned. An offset of 0 returns the first 20 results, each increase in offset of 20 will return the next 20 results.

The **SearchBar** component will have state values added for **hasSearched** and **searchOffset**. The default value for **hasSearched** is *false*. While hasSearched is false, the searchBar will display a “Search” button. When the “Search” button is pressed, the search SearchBar.search method is called and will initiate the Spotify search request. Additionally, it will change the state of **hasSearched** to true.

When **hasSearched** is true, the **searchBar** will change to display either a Next button, a Previous and Next button, or just a Previous button, depending on what the current offset value is.

When the Next button is pressed, it will call a method, increaseOffset which will increase the offset by 20 and then call the search function again.

When the Previous button is pressed, it will call a method, decreaseOffset which will decrease the offset by 20 and then call the search function again.

When the user changes the search term, the searchOffset state is returned to 0 and the hasSearched state is already returned to false.

# **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.