

Spotify Artist Popularity Lister

The Spotify Popularity Lister application is a Java developed Program in which the user is able to create custom lists containing artists and organize them on popularity and/or by genre. All interactions with the application are facilitated by a command line interface where the user can search for artists and artists-by-genre. When a list is made, the user is able to drive-down and pull information about the artist such as album, years active, etc. There are several specific use cases described below:

1. **Artist Search** – The user will input an artist name to access Spotify's API via a command-line input provided via Java code. The program will return 1 or more found artists or an error indicating no artists were found. The user is then able to confirm the artist name/ID in which the program will ask if the user wants to add the artist to a generated list.
2. **Genre Search** – The user will input a musical genre to access Spotify's API via a command-line input provided via Java code. The program will return a list of artists in order of popularity that match that genre. The user is able to specify a max number of returned artists as well when performing this search. When the resulting artists are returned, the user is then prompted if they want to add 1 or more of the returned artists to an existing list. The user can input an array of values to choose which artists to add to the list.
3. **Custom list** – The user will input if they want or create, edit/view an existing list, or delete an existing list contained within the Java application. If the user chooses to create a new list, the user can specify a name for the list. If the user chooses to edit an existing list, they are able to sort the list of artists by either genre and/or popularity and whether to sort by ascending or descending order. This will return an updated list sorted by popularity, genre, or popularity + genre in either the chosen orders.
4. **Artist Details** – The user is able to call upon Artist details within the viewable generated lists by calling Spotify's APIs to display the requested artist's details to the user. The user is able to enter in an Artist's ID from the list and the interface returns the details of that artist such as relevant genres, albums released, years active and total popularity score. The user is able to return back to the list from the details section.

All code as mentioned is to be developed within Java for this project. Additional features may be considered if possible (and allowed) but the core functionality is listed above. The application is to remain within a command-line interface and utilizing a Client-Credential authentication flow where the user does not need to enter in any respective user login information.