

## Karl Jiang - Final Project

[https://viterbi-web.usc.edu/~karljian/itp301/student\\_page.html](https://viterbi-web.usc.edu/~karljian/itp301/student_page.html)

1. My Final Project is based on the Spotify API. Because I like to listen to music and am always looking for new songs solely off the Spotify app, I decided to use it to create something that I would use frequently, such as suggested songs. Here I first search for songs, search for artists (and show other related artists), and search for recommended songs based on a specific song and artist.
2. Instructions on how to use the site
  - a. Because the Spotify API requires both a Client ID (API Key) and an OAuth token every 60 mins, I have a page, the page you are currently on called Frontend.html. The majority of this page was created by Professor Nguyen because I didn't know how to set up a local server in order to refresh the OAuth token. I modified it so that no matter if there was a token or not, it would always start with this page. In order to enter my actual final project, all you would need to do is press "Refresh Token." Afterwards, it will lead you to my site which is quite simplistic. Page navigation can be done through the navigation header, and inputs can be made through form fields. After a search is done, the response will be portrayed in the body. On the artist page only, if the user clicks on the image of an artist, then it will go to a "This is —" page, where the user can see a list of the artists' most popular songs.
3. Extras that were used
  - a. Spotify API
    - i. <https://developer.spotify.com/documentation/web-api/>
    - ii. Can search for tracks, artists, recommended tracks, artists' top tracks
  - b. Event driven DOM manipulation
    - i. In order to display results from API search
  - c. Web storage
    - i. In order to pass search information for when users click on images because I wanted specific track or artist IDs.