CPSC 353 Class project Name:\_Yixing Zheng\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Final Submission

Name of your project: SpotiFind

URL of github repository for your project: <https://github.com/zheng129/SpotiFind>

Names of Team Members: Ali Ahmadnejad, Johnny Chapman, Yixing Zheng

Original Deliverables

* Collected data for a list of artists as input for related artist searching
* Implemented artists search so that a user can search their favorite artists
* Provided output for three related artists’ first three genres as well as first three related tracks
* Show one artists’ all albums and songs along with album covers

Modifications (if any) to the deliverables and reasons for the modifications

* Changed from showing two artists’ related artists and their data to showing only one artist and their data, including all of their albums with covers, songs, and 10 related artists
* Showing a picture of the artist upon displaying the results
* Showing the cover of the album when user chooses a song from the album

Your documentation must include

* Instructions for installing components needed to compile and run the project

**Setup:**

* Open terminal and install Spotipy using "pip install spotipy command"
* If pip is not installed, install pip by downloading the get-pip.py file from: <https://bootstrap.pypa.io/get-pip.py>
* Then run: "python get-pip.py" in the terminal
* To verify if Pip was installed correctly type "pip -V"
* Be sure Python 3 is installed on your system
* Instructions for compiling and running the project

**Running the program:**

* Go to the directory that the file is stored
* Run python3 spotifind.py in Terminal window
* Note that the spelling of the artist is critical, might need space/dot in between words
* Once the artist is entered, the app will open a window with the Spotify profile photo
* The program will run and when it is finished will ask you to give a number matched to a song and open a webpage with that album cover
* The related artists will be listed close to the top of the start of the program
* The output will also contain the artist follower count, genre, and songs by album
* Instructions for using the software

**Using the program:**

* Once the program initiated, a welcome screen will be displayed
* Choose 0 to search for an artist and choose 1 to exit
* After choosing 0 for searching, type in the name of the artist and make sure spelling and space in between words, if any, is correct
* Then, the output will be displayed with the picture of the artist opened in the default browser. The first section of the output is the artist follower count and genre. The second section is top related artists and the third section is all the albums and songs of the artist
* Next, the program will prompt for pick a song or exit, once selected the cover of the song's album will be displayed in the browser
* If 'x' is typed, you will return to the welcome window and can look up another artist

Contributions by each team member

Each Team Member must post a README-name.md file in the repository listing their contributions to the project and also post this file via Blackboard.

Contributions:

Johnny:

**Submission 2**

* Researched source code for relevant python programs
* Help test and run the code after development

**Submission 3**

* Researched potential GUIs to use with the python code
* Help test and run the code after development

**Final Submission**

* Edited Ali's code and combined it with Yixing's code to produce the final console app
* Formatted the output to look nicer in the console

Yixing:

**Submission 2**

* Wrote most of the code for Submission 2
* Offered my opinions on what features should be implemented in the future

**Submission 3**

* Wrote most of the code for Submission 3
* Tested files

**Final Submission**

* Helped researching API for displaying album covers
* Organized submission documents
* Tested files

Ali:

**Submission 2**

* Researched for information and source code to help with the python program
* helped with testing the code and improving

**Submission 3**

* Helped with the coding of the program
* Worked on majority of the poster

**Final Submission**

* Wrote code to open artist profile picture and album cover in a webpage
* Tested the final application