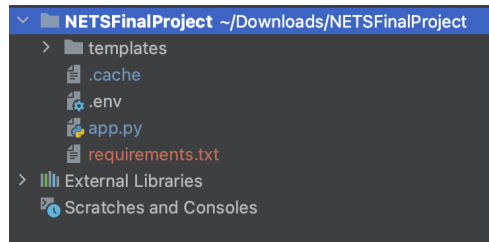


User Manual for Spotify Recommendation Platform

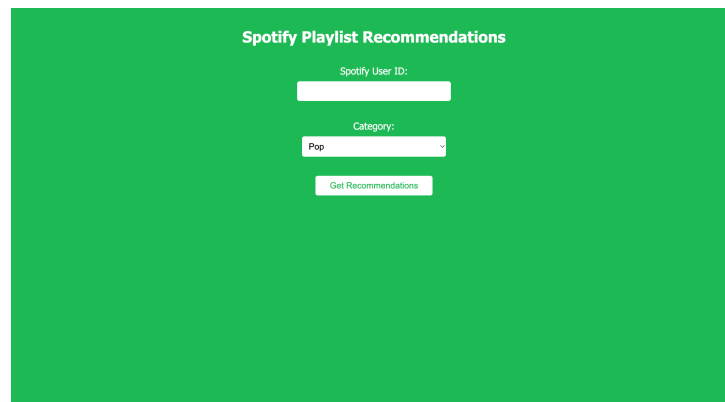
In order to run our program, open up our file in an environment that supports Python, such as PyCharm CE. Install pip if you do not already have it, and then run `pip install -r requirements.txt`. If this doesn't work, run `pip install -r requirements.txt --user`. Attached below is a screenshot of our file structure.



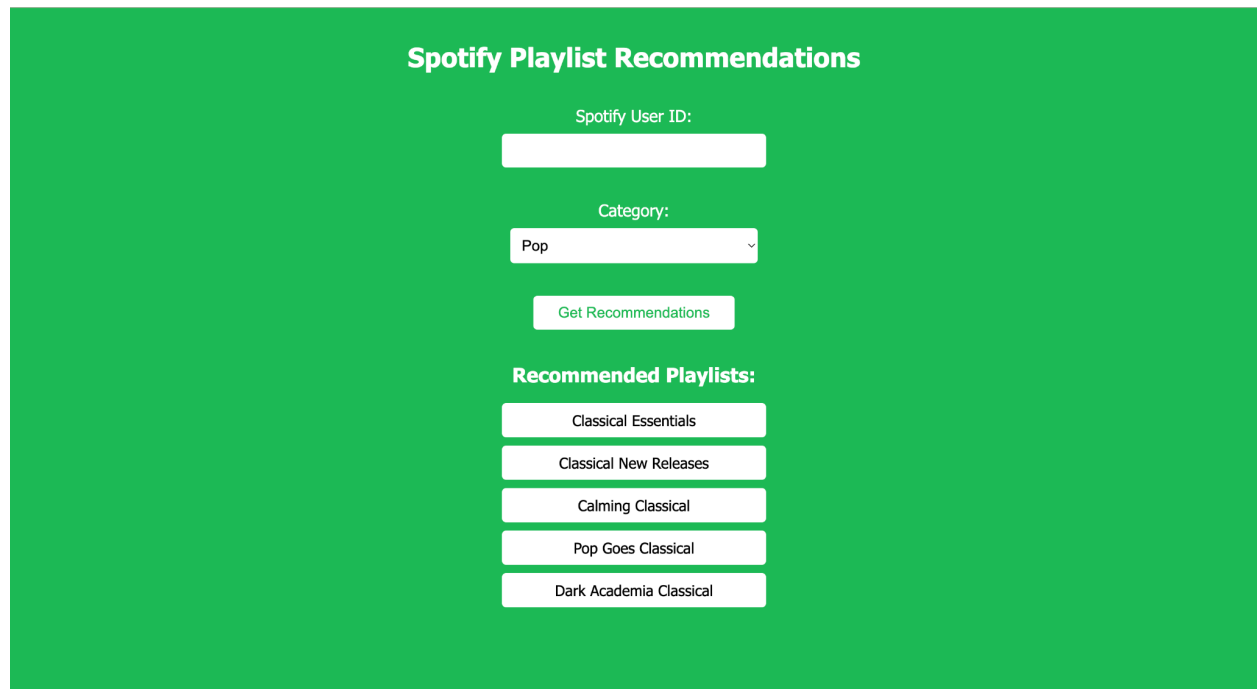
The index.html file contains the HTML code for the front-end of our website. The .env file contains the API keys needed to access the Spotify and Genius APIs. The app.py file contains the Python code for our backend. Navigate to the app.py file and run it or go to the terminal in the current directory and type `python app.py`. The output should look similar to the screenshot below.

```
/Users/sahis/miniforge3/envs/newEnv/bin/python /Users/sahis/Downloads/NETSFinalProject/app.py
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 855-912-591
```

Click on the link to the development server, and you should navigate to a website that looks like the screenshot below.



If you know your own Spotify User ID, you can type it into the box. You should be able to find it by getting the share link from your profile. Note that your Spotify User ID is not the same as your username. Otherwise, attached is the Spotify User ID of one of our group members: 31bsiejyi26a3kit6espksyhfz3y. We also have a dropdown menu for users to select from one of five genres to explore: pop, rock, hip-hop, jazz, and classical. After selecting a category, if the user clicks on the get recommendations button, it should return a list of recommendations. Note that our program could take upwards of 15 minutes to terminate because we are using both the Spotify and Genius APIs. The Genius API fetches each song individually and can take upwards of 10 minutes on its own, so please wait for our program to run in the background. After termination, the website should look like the screenshot below.



The screenshot shows a web application titled "Spotify Playlist Recommendations" on a green background. It features a form with a "Spotify User ID:" label and a text input field. Below this is a "Category:" label and a dropdown menu currently showing "Pop". A "Get Recommendations" button is positioned below the dropdown. Underneath the button is a section titled "Recommended Playlists:" which contains a vertical list of five playlist names, each in its own white box: "Classical Essentials", "Classical New Releases", "Calming Classical", "Pop Goes Classical", and "Dark Academia Classical".

Spotify Playlist Recommendations

Spotify User ID:

Category:

Pop

Get Recommendations

Recommended Playlists:

- Classical Essentials
- Classical New Releases
- Calming Classical
- Pop Goes Classical
- Dark Academia Classical