

**Project Name:** Sort Spotify**Project Coordinator:** Alisa Garcia**Team Members:** Rheaa Sharma, Noah Stern, Dane Shaffer, Alex Polivka, Jason Zheng

### Problem Statement:

Our goal is to revolutionize the Spotify user experience by creating an array of essential and exciting tools into a single, user-friendly platform. This is superior to similar products such as volt.fm, last.fm, statsforspotify.com and Spotify Wrapped because it is a singular hub for these products' features and more.

### Project Objectives:

- Build a website for managing user's Spotify
- Enable users to create an account and view their dashboard
- Dashboard succinctly displays all the data collected and produced by the ML model(s)
- Allow user to review advanced Spotify statistics
- Provide song-related games based on user's playlist
- Provide custom tailored playlists based on mood, season, or genre to users
- Allow users to interact with friends and compare statistics.

### Stakeholders:

- Users: Spotify users who want more features in one cohesive package
- Developers and product owners: Rheaa Sharma, Noah Stern, Dane Shaffer, Alex Polivka, Jason Zheng
- Project Coordinator: Alisa Garcia

### Project Deliverables:

- ReactJS front end web application that acts as a hub for users to manage their Spotify account.
- ML based song mixer and recommender built in Python using Flask, Yaafe, Aubio, LibXtract, Essentia etc.
- Gamified features page that includes game built using the Spotify API along the lines of:
  - "Guess That Song" game
  - "What's the next lyric?" game
  - "Guess the artist" game
  - "Heads up music" game
  - "Who's playlist is this song in?" game
- Statistics Dump page which includes multiple user statistics including listening trends and recommendations for songs to delete utilizing Python libraries such as plot.ly and pandas.
- Use SQL to store user data for aforementioned statistics dump page
- Connect the backend database and ML processing using Django

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- Import user's local files by folder to create a Spotify playlist
- Create playlists using Spotify's API based off of user statistics and recommendations
- Create a playlist using song recommendations from two separate playlists in order to merge two tastes into one playlist.
  - Use recommendations provided by Spotify's API based on genre, tracks, and other measurables
- Create a friends list between users and access each other's playlists while both users are online