SHUFFLE+

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What this app does

Provides more options for playlist shuffling than are typically provided

Offers users a variety of different shuffling algorithms and allows them to specify shuffling criteria



TOOLS

NAME	RANKING (Out of 5)
Trello	4
Github	5
Nodejs	5
	5
	3
	2.5
Various code development tools	4



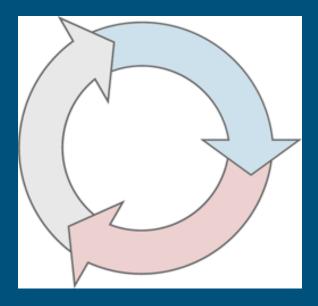






Methodologies Used

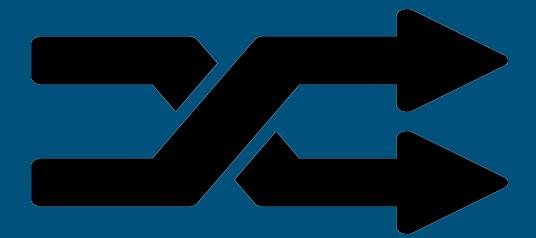
Iterative
Pair programming
Peer code reviews



Shuffle Algorithms

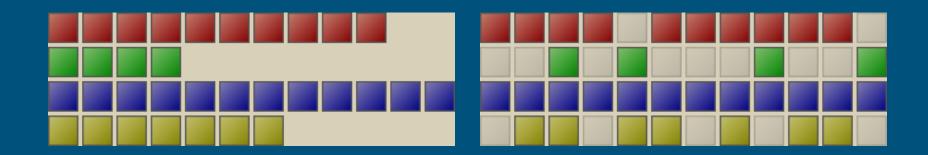
Random

Shuffle tracks uniformly randomly
Based on Fisher-Yates shuffle algorithm
Can create strings of songs with the same artist or from the same
album which is undesired by many users



Spread

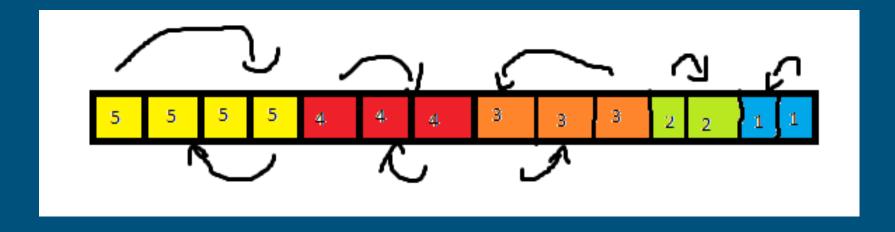
Spreads songs by the same artist/from the same album/etc apart from one another
Similar to the algorithm used by Spotify



Biased

Allows the users to rank tracks by title, artist, album, or explicit status

Shuffles tracks of the same rank



Challenges Encountered

Had to find work-arounds for spotify's limited API
Weren't able to implement our original vision due to limitations from
Spotify

Needed to learn some programming languages which limited development at the beginning of project development

Limitations

Weren't able to implement our original vision due to limitations from Spotify

Seems to be an upper limit on playlist sizes the app can handle Can only use user created playlists

Moving Forward/Future Developments

Database

Tracker for number of times a song has played

Save some user rankings

Save where user left off in a playlist so that they can leave and resume from the same place

Tie in future Spotify API developments

Allow users to rank by more than one category at a time

Mobile app

Project Demo

