RockBuddy

Group CTRL ALT ELITE
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Project Description:

The goal is to provide users who are interested in the rock genre with a consolidated source of information about all things related to rock music. This app will be a one stop shop for albums, artists, and songs that fall under the category of rock, or any sub-category of rock. The app will allow users to learn more about the artists, albums, and songs that they like. They can also discover new albums or songs, or even discover entirely new rock artists. Users will also be able to integrate their experience with Spotify, and be able to build Spotify playlists with the new songs and artists they discover. The website will utilize the spotify API to allow this. The website will also utilize other database APIs like wikipedia to provide in-depth information, context, and history about particular albums, artists, and songs.

Apps like Spotify do have things like filtering artists by genre, so you may wonder why this app is useful. The goal of this app is to provide more information about artists, albums, and songs than just the bare minimum - which is what music streaming apps like Spotify do. For example, provide the backstory/history/context/etc.of a particular artist, albums, or song. The app also focuses on a niche (rock and sub categories of rock) so it is a more narrow and consolidated source of info, in contrast to a music

streaming app which is genre agnostic. Therefore, a person who likes rock music and is seeking rock music content in particular will know that when they use our app, **everything** on the app will be related to the rock genre. There won't be any extra information about other genres of music. The only limitation to the rock filtering is users may have songs in their existing spotify playlists which are not rock.

Features:

1. **Spotify Integration** - Be able to authenticate/log in with spotify and modify account playlists
2. **Social Networking -** Give users ability to search other users profiles (profile page) and direct message them/send them links to songs
3. **Artist Search** - Search for artists (will only return the artist from spotify if it falls under some category of rock)
4. **Song search** - Search for songs (will only return the song from spotify if it falls under some category of rock).
5. **Album Search** - Search for albums (will only return the album if it has a rock artist)
6. **Artist page** - View info about the artist. View artist discography. View artist top tracks.
7. **Album page** - View info about the album and tracks
8. **Song page** - View info about the song and lyrics
9. **Playlist view** - View current playlists from spotify account. Can play songs from here
10. **Spotify Player** - Can play songs application wide
11. **Comments** - Can post comment on album/song page
12. **Upcoming events page** - Integrate with Ticketmaster API to find upcoming concerts and events with rock music. Shows nearby events (within a month) and has near event search

Course Technologies:
- React - For building a SPA as our frontend
- Redis - For caching API requests to spotify
- Firebase - For user authentication on top of the Spotify Auth. Also functions as a NoSQL database for user and chat data

Independent Technologies:

- Heroku - This technology is for making deployments. It will be used to deploy our front end react application
- GraphicsMagick - This technology is for formatting images. It will be used to format profile images that users upload