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Senior Project- **Melonheads**
https://github.com/nickschillaci1/Melonheads

Summary

- Provide a local, central hub for collaborative, external music playlist building
- All-in-one desktop music application designed to create and manage playlists built from music hosted on a variety of sites
- The program solely stores links and does not handle actual music files

Goals

- Successfully use a Youtube link to access a copy of the Youtube player located at that link, already designed to play a video/audio file, and play it through the program.
- Create a well organized database to store the links and metadata of songs.
- Build a well organized database to store individual user information for accounts from which users can share links with other users through the program.
- Develop the desktop in the future as a mobile application using custom API.

Features

- Program can access YouTube API to play video/audio instead of downloading and storing audio files locally
- Users can register a video URL to a specific song to easily categorize for later playback
- Users can find songs previously registered by other users to easily find music online
- Program will essentially act as a central hub to easily find music that exists online for playback
- Users can sort and organize their music, including creating local playlists

Limitations

- Internet connection is required to access a web API and any online media.
- Can only interact with external media sources via official API means, potentially restricting integration with the program.
- Database storage space could potentially become an issue

- Relies on user-to-program and user-to-user interaction to create a large, flourishing music library