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Team name: Disc Clones

# PHASE ZERO:

Together our group decided our project would be developing a http://discogs.com clone. Discogs allows you to input the music you own and store it on your account, views the collections of others, and sell parts of your own (physical) collection. Given the variety of data related to each individual artist or album, there is a significant range of possibilities present for creating a recommendation algorithm which could add depth to the project beyond simply creating a functional database. This would increase the complexity of the workload, but would certainly provide for some interesting results.

First a user will need to create an account, so everything they create can be associated with them. When a user would like to add music to their collection the application will ask for the artist/album, it will then check to see if the album is already present in the database. If the album is not present another screen will appear allowing the user to input more information so it can be added to the database. The user will also be able to go to their account and view their entire collection, the user would also be able to go to other user's accounts and view their collection. If a user decides that they want to put an item in their collection up for sale they can go to their collection and press a button to add it to the store. The user can pick what they would like to sell the album for and choose how long it can be in the store. Other users can then go into the store and browse records that other have put up for sale. The application may also be able to suggest the user other types of music based on what the user has in their collection.

# PHASE ONE EXTENSION:

Our group has now decided for sure to create a Discogs clone. This will require a large amount of information, most of which can likely be retrieved directly from discogs itself. This information will include song names and metadata, artist names and metadata, album names and metadata as well as album editions, and label information. The database will also require a collection of users (which will have to be generated pseudo-data, since we can't just copy actual user information for privacy reasons). The users may be required to be a part of a seperate database for security reasons. The two databases would then interact so that information regarding a user's personal collection could be retrieved (or, alternatively, all the data could be stored in a secure database). The database would have search capabilities as follows. Firstly, any individual quantity would be searchable without relying on other related characteristics (i.e. a user need not know anything about a label to find an artist or vice versa). Secondly, all users will have a publicly available collection which can be viewed by searching for the user's username (so long as the user does not manually choose to privatize their collection). Obviously, the database will include a full UI and be accessible via the web. The database should be useful for simply 'researching' a song/artist/album/etc beyond purchasing from a user's collection; it should have additional information such as lyrics or other interesting and relevant information to the items stored (think Spotify's Behind the Lyrics).