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Databases

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Project Proposal

Section I:

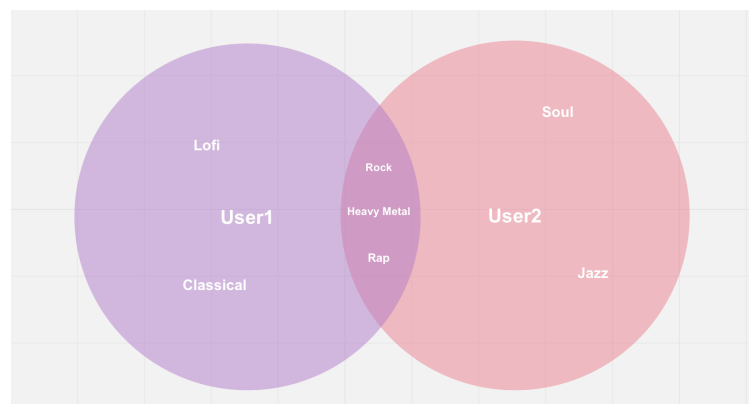
When thinking about this project we wanted to find something that all four of us had a common interest in, and then we thought of music. We are planning to use Spotify's API to create a website that can tell users about their listening habits on spotify. Spotify uses JSON requests to allow developers access to their database with information like a user's saved music, playlists, and more. We specifically plan to build a website that will allow a user to enter in their login and a friends, and discover how closely related their music tastes are.

We will use the most recent song tracks listened to, and we will create an algorithm that determines the similarity and differences in music taste between two different users. This is the novelty aspect of our project. Users will be able to compare their music taste based on different criteria such as genre, music artists, mood, songs, etc...

Some expected challenges include having to figure out how to have two people signed in at the same time to obtain both of the users' information at the same time. As well as determining a criteria and metric to rate the similarities.

Section II:

[25 pts] - Implement JSON/Spotify API correctly



[10 pts] - Website is visually organized & user friendly

[10 pts] - Code is commented sufficiently & is well organized

[25 pts] - Information returned is accurate & degrees of separation between music tastes make sense

[30 pts] - Using data returned from JSON database to create multiple relational database schemas (Artists, Songs, Genres, etc). All schemas should be in BCNF (maybe 3N?)

<https://miro.com/online-whiteboard/board/I3wQaADVDJhocqa56UecTWX0gRoqIPgF/>

