



BA/SA/Group/Lab:

Cooperative Playlists

Listening to music in groups can sometimes be a bit tricky. Oftentimes, especially in bigger or more diverse groups of people, music tastes do not completely overlap which can lead to disagreements and unhappiness. Imagine you're on a road trip with a couple of friends and you simply cannot agree on a single song to play.

Instead of the centralized approach of composing a generic and mainstream playlist that only sort of satisfies everybody, we are looking for a solution where a group of users can participate in accumulating a shared and cooperative playlist of songs. This scheme would allow individual songs to be pushed to a shared playlist directly from the group member's smartphones. Additionally, we are looking for a scheme where songs can be up- or downvoted based on the music taste



of the individual group members, which in turn changes the playlist sequence in such a way that more popular songs receive precedence over less popular songs.

The goal of this thesis is to develop a system that allows multiple smartphones to push songs to a shared playlist and implement a rating system that aims to optimize the overall group happiness.

Requirements: Creative thinking and advanced programming skills are advantageous to successfully work on this topic. The student(s) should be able to work independently!

Interested? Please contact us for more details!

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