Moodify is an Android application designed for automating the creation of music playlists based off user search filters. The project is built using Java and will connect to the Spotify music platform via the developer Web API to collect music tracks and create playlists. The primary challenge of the project is the utilization of the Spotify API to perform intelligent searches that fit the user’s intent, as well as creating an easy-to-use mobile application that works on Android environments.

The main feature of the project is to search for a selection of music tracks based off a specific search term that the user enters. The search can then be further refined by filtering for specific audio features within tracks, such as the presence of vocals, the liveliness of the track, how loud the music is, and more. These searches will be easily configurable, with each audio feature represented as simple radio buttons that can be checked off. Once satisfied, the user can begin the search, and the results should automatically be displayed for listening.