Proposal

Playlist Finder and Music Social Media

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Software Engineering course project

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Preface

This is a proposal for the Playlist Finder and Music Social Media project for partial fulfillment of the requirements of a Software Engineering course (CSC431) project in the department of Computer Science at the University of Miami.

This proposal provides the scope and context of the project to be undertaken. It details the intended user group and the value that the system will have to them.

The intended audience of this document is the course professor and teaching assistants so that they can determine whether the project should be approved as proposed, approved with modifications, or not approved.

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1.0 Overview

1.1.   *Purpose, Scope and Objectives*

The purpose of this project is to create a platform where Spotify users who are interested in discovering new music can indicate their preferences for the kinds of music they enjoy listening to, and our program will follow playlists for them based on those preferences. We want to help Spotify users by following the playlists on their behalf given their preferences, so that they don't have to sift through the vast selection of playlists available on Spotify. To create the form with which users can select their preferences for the music, we will use HTML, CSS, and JavaScript. In order to gather information from the user's Spotify account and follow playlists on their behalf, we will need to use the Spotify API, which requires us to use Node.js. The user will login to their Spotify account through our platform so we can use the API and gain access to information. We will aim to create this as a web app as opposed to a mobile app.

Using the Spotify API, we also want to expand on Spotify's social features to create a social media platform for music. It would allow users to post music recommendations, what they are currently listening to, and new playlists discovered from this application with their friends and followers onto a central feed. It will also give users expanded profiles that they can share their favorite artists and songs, as well as who and what they currently enjoy listening to. This feature will also require the use of HTML, CSS, JavaScript, Node.js, and the Spotify API. The API will be used to gather details about each users' profiles when they login to their account. The web application will then formulate their expanded profiles and allow them to post onto a central feed.

1.2.   *Project description*

Definition of the problem:
- Login to Spotify account page
- Form to indicate music discovery preferences
- Results page informing users of the playlists that were followed through their accounts.
- Expanded user Spotify profiles that show previous posts, favorite artists and songs, as well as who and what they currently enjoy listening to.

- A central social media feed where users can create posts for their followers on Spotify, and view posts created by people they follow.