Proposal

<Music Therapy>

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Submitted in partial fulfillment
Of the requirements of CSC-431
Software Engineering course project

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Preface

This is a proposal for the Music Therapy 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 help combat day to day mental health issues by listening to music in a new creative way. This website asks for updates on your mood throughout the day.

When the emotion has the user feeling down, the user is given a song that soothes the situation with sweet tones. This website would require users to link their music streaming service accounts so the song that our algorithm creates plays directly on the music app. An internet connection and a previously made account on a music streaming service is required for our website. Our website will use CSS for frontend components and HTML/JavaScript for backend components.

We wish to target particularly stressed individuals who also love listening to music. Music is proven to assist in the alleviation of stress, which is why using this app should help with anxiety, depression, and other related mental health issues by listening to one song at a time.

1.2.   Project description

When you first open the site, you will be asked to login to your account. Then on your screen will pop-up emojis to help determine your mood. If you are feeling positive emotions in that moment, the site will wish you good luck on your day. If you are experiencing any unpleasant emotions such as feeling sad, nervous, etc., the website will play a song for you to help you get out of that mind set.

Our music mental health website will have the following features:
- First time users will create an account (program written by us)
- Sign-in page (program written by us and have software such as Google sign-in)
  - Email and password (program written by us)
  - Google or Facebook sign-in (existing software)
- Prompt the user to link their music streaming service account (created by us and have music stream software)
- Emoji frontpage (created by us)
  - Input emojis into the website
  - Users can pick the emojis that best reflect their mood

- Positive emotions/emojis (created by us)
  - If the user is feeling positive emotions, a pop-up message will show up on the website telling them to have a good day
- Unpleasant emotions/emojis (created by us)
  - If the user is feeling down, they will choose the emoji that best reflects their mood and music to get them out of that mood will play
- Song choice (created by us)
  - What song to play is a feature we intend to create by making use of the searching algorithm
- Play song (have music stream software)
  - This will be done by linking the music streaming service account to our website