Proposal

Apollo
Music Dating & Social Networking Application

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Of the requirements of CSC-431
Software Engineering course project

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Preface

This is a proposal for the Apollo music dating and social networking app 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

Music is a powerful tool that can bring like-minded people together and allow individuals to interact with new people, share musical experiences and explore new music. The purpose of this project is to create a dating and social networking application that matches individuals with others based on similar music tastes and tastes and concert venues. The product will be delivered via an iOS application; users will need an iPhone to access the application, enable location services, and connect to the Internet. To create the application, we will be using ReactNative for the frontend and Firebase for the backend. The intended user group of this application is the single adult demographic interested in music within the United States. Current dating applications focus on a broader range of user preferences, with limited options to demonstrate a user's music preferences. Apollo provides musically-inclined users with a more refined social networking and dating experience to match them with people who may align more closely to their preferences.

1.2. Project description

Apollo is a musical dating and social networking application that matches users based on their music and concert venue preferences. Once a user registers, they will be able to create a profile and find matches in their area of interest. Users will be shown a profile of another user, and they

can demonstrate disinterest or interest by swiping left or right, respectively. When two users swipe right, forming a match, they will appear in each other's match list on the Matches page, where they can communicate via chat. A Suggested Upcoming Concerts page will show users upcoming concerts in their area based on their preferences.

The dating application will have the following features:

- Registration Page (First time users) (plan to use existing software)
    - Email, Google Account, or Facebook
      or
    - Phone number
- Profile page (UI will be created)
    - Age
    - Location
    - Picture(s) of user
    - Bio (optional)
    - Top artists (optional)
    - Favorite song (optional)
    - Compatibility threshold
    - Access to Spotify and Apple Music to link top artists to user's profile (existing software will be used)
- Login page (database of users will leverage existing platform)
    - Users will login with the same information the user used to register (either with email, Google Account, or Facebook, or phone number).
- Preferences matcher (the matcher will be created)
    - Preferred Artists and Genres
    - Preferred Concert venue type checklist
        - **Large gatherings:** Festivals, stadium concerts, night clubs
        - **Smaller gatherings**: Independent gigs/venues, jazz clubs or cafes, open mic nights, bars
- Seeking page (UI will be created)
    - Seeking page will present other users' profiles
- Matches Page (the program will be written)
    - List of matches made between users. Users will be able to connect via chat.
- "Suggested Upcoming Concerts" will be included in chat (existing software will be used)