Project Requirements Document

Team Gigs - Mezzo

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Revision History

Version 2 updated on 11/25/2015

Intro (Problem, Innovation, Science, Core Tech. Advance)

Currently, there is no active social hub for musicians to gather with other local musicians and collaborate. Team Gigs plans to change that with Mezzo, a social application for musicians to meet other musicians on the web or on the go with a mobile application. We'll be using the most recent technologies to innovate and create this application to provide a pleasing interface, and the optimal, efficient application experience for musicians.

Glossary of Terms

None

System Architecture Overview

The web application will be coded with Ruby on Rails which uses an MVC framework and will be deployed with Heroku. We will then use Cordova to port the web application's HTML/JS to a mobile application for both iOS and Android.

We'll be creating a Tinder-like interface where users can view profiles of other musicians, along with basic profile information as well as a sample of the musician's music (embedded streaming from other services [i.e. SoundCloud, YouTube, BandCamp]). Musicians have to mutually like the other musician in order to start up a conversation.

Profiles are linked to Facebook, which will handle profile pictures as well as reduce the chances of fake accounts being made. Links to the Facebook Developer API.

Design is implemented with Bootstrap. Continuous integration supported by TravisCI.

User Stories

1. As a user, I want to be able to access a webpage.
2. As a user, I want to be able to create a profile.
3. As a user, I want to be able to link my Facebook profile for ease of use.
4. As a user, I want to be able to put my music on my profile for others to hear.
5. As a user, I want to be able to use YouTube, SoundCloud, or another music streaming service to put on my profile.
6. As a user, I want to be able to customize my profile with my information, musical preferences, etc.
7. As a user, I want to be able to match myself with other musicians.
8. As a user, I want to be able to find users near my location wherever I am.

9. As a user, I want to be able to talk one on one with other musicians that I like and have liked me back.
10. As a user, I want to be able to favorite the musicians that I have enjoyed playing with.
11. As a user, I want to be able to sort other musicians by things like genre, instrument, playstyle, experience, and age.
12. As a user, I want to be able to have my music liked and commented on.
13. As a user, I want to be able to see featured music that has many likes.
14. As a user, I want to be able to see local events near me that I might want to go to.
15. As a user, I want to be able to make groups of musicians that I have liked and want to start a jam session with.
16. As a user, I want to be able to access the webpage on my mobile device.
17. As a user, I want to be able to sell or trade my gear with other musicians.
18. As a user, I want to be able to see other musicians who are looking to be tutored or are open to tutor.
19. As a user, I want to access webpages that are appealing to the eye and well designed.
20. As a user, I want to access webpages that are easy to work with.

Prototyping code and test cases (Github URL)

Development/Lab: https://github.com/masonl93/INTERNAL-CS189A
Production: https://github.com/sagarsaija/PRODUCTION-CS189A

Wiki and all documentation is in the old Development Github:
https://github.com/sagarsaija/INTERNAL-CS189A

System Controllers

Application - Handles navbar and general application functions
Home – Handles static pages, including the home page, the about page, etc.
Sessions – Handles login and logout sessions
Users – Handles user informaton and matching

System Models

Users – List of users, stores: bio, images, location
Media – List of media URLs, linked to each user
Genres – List of genres a user likes/is influenced by
Instruments – List of instruments, linked to each user
Matchings – Lists of relationships between 2 users.

- Statuses:
  - 0 = Match initialized
  - 1 = One user has liked another user
  - 2 = Both users liked each other
  - 3 = One user has denied the other user

Appendices (Tools Used)

- Ruby on Rails
- Rubymine
- Cloud 9
- Heroku
- Apache Cordova
- Github
- Bootstrap
- Travis CI