Project Plan

SongQueue Master-(Littyfy)

CS 481 - 01

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1. Introduction

1.1 Purpose

A mobile application used for events and gatherings to allow users to create a list of songs, for a DJ to approve and play so people get to suggest and play songs from their phones.

1.2 Intended Audience

The application will be an android platform application designed for those that host gatherings or parties and also enjoy listening to music.

2. Requirements

Song Queue Rooms:

Users will be able to join specific rooms and then be able to suggest songs to the queue.

DJ Functionalities:

The DJ will be able to manage the songs to the queue through moving or deleting.

3. User Stories

User process

- Users will enter the app and be presented with all the currently active room IDs
- If they plan on using their own room they can choose from a menu to create a new ID
- Once the user is in a room, they will see the current queue of songs and what is currently playing
- They will have the option to click the plus button in order to add the song of their choice to the queue
- If the user was the first one to create a room, they are assigned the DJ role and have access to modifying the contents of the queue through moving them or deleting them
- DJs have the capability of transferring the role to another user in the room (WIK).

4. Interface

4.1 Customer View

Menu view-scroll down widget:

This feature will allow the user to scroll through the song queue.

Add to queue button:

This feature allows users to add the songs they want to the queue

Transfer Room DJ:

This feature will allow the current DJ to give the DJ role to another user in the room.

Set Name:

There will be a button for the user to set there name for the rooms they join, so the DJ can easily identify them when needing to to transfer the role.

5. Software Development Framework

Agile - Extreme Programming (XP):

Our team is using XP programming in the implementation of this project since we are expecting changes in our requirements, to which this document will reflect those changes.

6. Software Used/APIs

Android Studio:

Framework used to implemet application.

Firebase Real Time Database:

Used to store track and artist metadata. In addition, used to store User information.

Google Authentication:

Used to authenticate users via email.

Square Retrofit:

Used as web client to make API calls within the android application to retrieve music metadata.

Square Picasso:

Implemented a helper class using this service to load track images to its respective image view.

LastFM API:

API used to retrieve metadata of tracks. JSON is returned and then converted to a POJO for application usage.