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**1. Introduction**

**1.1 Purpose**

This document describes the design of a computer software for audio file manipulation and usage. The requirements will be described in a use-case format identifying the basic system flow. Some of the more specific processes will be described in their use-case specifications.

**1.2 Background**

There are a variety of audio players available to users. Many of them offer more features than necessary for the average user and this software will assume the role of a simple and clean version of many of the most used audio playback and management features.

**1.3 Definitions, Acronyms, and Abbreviations 2.3.10**

PL Playlist

Q Song Queue

MMRS Macho Man Randy Savage

FN File Name

**2. System Requirements**

**2.1 Actor(s)**

User- the daily users that own and play music files will be the main and, initially, the only actor. The user will likely have identified some need for simple and streamlined audio file playback while using other, more complicated software and acknowledged the desire to fight the man.

Social User Network- eventually it may be necessary to open access to “friend lists” of the user.

**2.2 High Level Flow**

The user will need to have access to a computer and be in possession of audio files of differing types. Additionally, because there is not a web-based application at this time, the user will need to have the software already downloaded and installed on their system. The user will only have access to certain features if they own more than one audio file and other users will be able to use the software at the same time; however, the software will not allow inter-user communication or distribution initially.

* 1. **Basic Use Cases**

**2.3.1** Drag audio file onto program.

**2.3.2 Play**

**2.3.3 Pause**

**2.3.4 Stop**

**2.3.5** Next/ Previous song

**2.3.6 Fast forward**

**2.3.7 rewind**

**2.3.8** Rename a playlist

**2.3.9** Shuffle

**2.3.10** Repeat

**2.3.11 Queue a song**

**2.3.12** Volume Control

**2.3.13** Delete Playlist

**2.3.14** Name Playlist

**2.3.15** Add Playlist

**2.3.16** Delete Playlist

**2.3.17** Suggest Playlist

**2.3.18** Play Most Popular Files

**2.3.19** Play Least Popular Files

**2.3.20** Play files continuously for specified time frame

**2.3.21** Scan music (play first 30 seconds of songs)

**2.3.22** Delete duplicate songs/Find Duplicate songs

**2.3.23** Make playlist from Queue

**2.3.24** Time remaining bar