Product Requirements

**MP3 Player**

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# Introduction

This document details the product requirements of the NCCMP3 music player and library project.

# Product Overview

NCCMP3 is a new music player and library manager application. It is meant to be a lightweight replacement of mainstream music library options. It is going to have many of the same features found in other music applications, without being bloated or slow.

# Product Functional Requirements

* Music player interface should include:
  + Display of current track info
  + Play
  + Skip song
  + Skip back song
* Library interface should include:
  + organizing by:
    - artist
    - album
* Interfaces should be graphical to facilitate ease-of-use
* The music library should be sorted by the mp3 metadata and not dependent on folder structure
* The application should be fast and responsive
* To play songs they should be added from the library to the current playlist

# Product Non-Functional Requirements

* The application will not move music files/folders added to the library
* The application will not include a “visualization” mode
* The application will not include an equalizer
* The application will not display or store album covers
* The application will not play videos
* The application will not play internet radio
* The application will not have an online store

# Usability Requirements

This program should be able to be used by the general public without any difficulty.

# Reliability Requirements

This product should be relatively robust. Failure will be few and far between.

# Portability Requirements

This product should be work on any Windows or Macintosh operating systems with the Java Runtime Environment.

# Interoperability Requirements

This program is going to be written in Java so portability will be based in the language.

# Delivery Requirements

In an expandable ZIP file, the user will be responsible for downloading a program that will be able to decompress the file.

# Implementation Requirements

You will need a computer with monitor and input device able to control the mouse movement and clicking. Also to be able to hear the music produced by the program you will need a sound reproducer such as headphones or speakers.

# External Requirements

You will need access to the Java Runtime Environment to run the program successfully.

# Standards Requirements

The federal government mandates that the sharing of music files is in violation of copyright laws.

# Legislative Requirements

The federal government mandates that the sharing of music files is in violation of copyright laws.

# Privacy Requirements

No user information will be required. This program will however create a database of mp3 files within its file structure.

# Safety Requirements

The creators of this program are not responsible for the sound level coming out of the user’s computer. Further we are not responsible the for the content of the users files.

# Ethical Requirements

The federal government mandates that the sharing of music files is in violation of copyright laws.

# System Architecture Requirements

This program ideally will work the same way on any platform that is supported by the creators of Java. You may need to reinstall/ update your version of the java environment.

# System Model Requirements

This program ideally will work the same way on any platform that is supported by the creators of Java. You may need to reinstall/ update your version of the java environment.

# System Evolution Requirements

This program ideally will work the same way on any platform that is supported by the creators of Java. You may need to reinstall/ update your version of the java environment.