**Software Requirements**

**Specification**

**for**

**Project ΜusicPlayer**

**|**

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**Project Link**[**https://github.com/Arpit-Chauhan/Music\_Player-MiniProject**](https://github.com/Arpit-Chauhan/Music_Player-MiniProject)

# Introduction

* 1. **Purpose**

Τhis Software Requirements Specification document has been created for the program MusicPlayer which is an advanced music player for playing ordinary audio formats.

MusicPlayer is a free, open source program. Free software is software which may be used, studied, amended and returned without restriction.

* 1. **Scope**

This document is unique. It‘s scope is to describe the requirements of the program MusicPlayer and the interfaces for it.

* 1. **Intended Audience and Reading Suggestions**

This document:

* + - may be used by ordinary **users** of the program. They can easily understand the features and the operations of MusicPlayer .They can also be informed of all the possibilities the program provides. Users can get a general image of the program and run it with a better ease and understanding
    - also, this document could be studied by the program **developers**, so they have the chance to identify and alter possible points which need improvement. Also, they can fully understand the nature of the program and implement new features. It is recommended to comprehensive study of the document for the full understanding of the program and to avoid errors.
    - also, helps project **testers** understand how MusicPlayer is supposed to work properly and identify bugs and errors easier.
  1. **Project Scope**

MusicPlayer is a windows form music player application. it supports not just modern day audio formats such as MP3 or WAV but also OGG, WMA, MPC, FLAC .

# Overall Description

* 1. **Product Perspective**

The MusicPlayer belongs to music player category. These are the minimum requirements that are needed to run and built MusicPlayer:

* + - Android 5.0
    - iOS 11
  1. **Product Functions**
* Simple GUI.
* Full Support For All Audio Formats.
* Visualizations.
* Plays Next / Previous Track On Playlist.
* Two Progressbar shows the high and low point of the playing audio file
* Associate File Formats.
* Unlimited songs on playlist.
* Tracker to track audio positions and volume.
* Simple Tags editor to edit title, artist and album.
* Shows left / right audio volume.
  1. **User Classes and Characteristics**

The software can be used by the following user categories:

* + - Simple users that intend to hear a song. These users could be of any age, with no special knowledge. Knowing how to use a computer is an essential.
    - Programmers- Software Developers –Open Source project participants of any age that could understand the program’s source code and expand or improve it. Must have knowledge of the programming language that the software is written in, in order to be able to understand exactly what it does and how it does it. Also some experience on programming will most certainly help on extending or improving the project.

This is an Open Source project and anyone who desires to distribute to the project is welcome.

General there is no restriction in user’s categories and everyone using a computer can use this program

* 1. **Hardware Interfaces**

MusicPlayer does not require additional material to run. The only peripheral equipment is the monile device.

* 1. **Software Interfaces**

These are the minimum requirements that are needed to run and built MusicPlayer

* + - Android 5.0
    - iOS11
  1. **Communications Interfaces**

None

1. **Other Nonfunctional Requirements**
   1. **Performance Requirements**

MusicPlayer requires a small amount of disk space for installation-50MB.It is characterized by fast loading and executing times. It‘s not a heavy program and it can works while other programs are running*.*

* 1. **Safety Requirements**

There are no specific safety requirements as MusicPlayer cannot make user’s computer malfunction in any way.

* 1. **Security Requirements**

MusicPlayer is an Open Source project and free for use.

**Software System Attributes**

MusicPlayer is easy to use because is a small program. Users can easily learn to use it. The software’s interface is quite friendly, simple, easily understood, it works fast and is organized. MusicPlayer is a very fast and efficient program and users can easily change its options to satisfy their needs.