

Music management system

project report



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1. Introduction

Imagine a magical place for music lovers! Our project is all about creating a super easy-to-use Music Management System. It's like having your own organized library where you can find, create, and share your favorite tunes hassle-free.

2. Objective

We want to make everyone's music experience better by building a system that helps you manage your music easily. Whether you're an artist or just love jamming out, our goal is to create a platform that makes finding and enjoying music a piece of cake.

3. Problem Description

What: Ever had trouble finding the right song or organizing your playlists? Our project solves exactly that!

Why: Because everyone deserves a simple way to manage their music. No more chaos in your playlists or struggling to discover new songs.

How: We're creating a system where you can easily create playlists, collaborate with others on music, and get awesome recommendations. Musicians, music fans, and industry folks – everyone gets a share of the music love.

4. Features

- Click-and-Play Interface
- One-Click Playlist Creation
- Easy-to-Use Songwriting Tools
- Organize Music with Simple Tags
- Get Song Suggestions Based on Your Tastes
- Personalized User Profiles
- Collaborate with Artists Effortlessly
- Quick Genre Sorting
- Easy Sign-up and Log-in
- Access Anywhere, Anytime

5. Users

1. Music Lovers
2. Musicians
3. Artists
4. Anyone who enjoys a good beat!

6. Requirements

1. Easy Sign-up

- a. Users should be able to sign up with just an email.
- b. Logging in should be as easy as clicking a button.

2. Playlist Magic

3. Tag It Right

4. Collaborative Jam

- a. Users can invite others to collaborate on playlists.
- b. Real-time collaboration features for songwriting.

7. References

No reference added in this document

Semester Project – Phase 1

You are asked to write a software requirement specification document as a semester project in this course. The first phase should contain the following requirements:

1. 10 Functional Requirements
2. 5 Non-Functional Requirements
3. 3 Constraints Requirements
4. 2 Domain Requirement

Functional Requirements Description

Functional Req. ID #	Function Name	Functional Requirement Description	Software Requirement
FR 1	Easy Sign-up	User will able to sign up with just an email and login in will be easy as clicking button	1a,1b
FR 2	Playlist Magic	User can create a playlist by clicking at one button and also user can share playlist by sending a link	2a
FR 3	Tag It Right	Each song should be taggable with genre and mood. User can sort songs based on tags	3a
FR 4	Collaborative Jam	User can invite other to collaborate on playlist and also Real-time collaboration features for songwriting.	4a,4b
FR 5	Smart Recommendations	The system should suggest songs based on user preferences	5a

		and Recommendations should get smarter with usage	
FR 6	Personalized Profiles	Users can customize their profiles with pictures and bios. And profile show user most played genre	6a
FR 7	Artist Collaboration Hub	This fun have Dedicated spaces for artists to connect and collaborate and they can direct message and share file	7a,4a
FR 8	Quick Genre Sorting	Users can easily filter songs by genre and provide icons for quick identification	8a,3a
FR 9	Secure User Data	User data is encrypted during transmission and data will be secure and recovery option	9a
FR 10	Anytime, Anywhere Access	The system should be accessible on various devices and Responsive design for seamless usage	10a

Non-functional Requirements Description

Non-Functional Req. ID #	Function Name	Non-Functional Requirement Description	Software Requirement
NFR 1	Lightning Fast	The system should respond super fast, almost like magic	1a
NFR 2	Keep It Safe	Your info should be super secure – like having a lock on your diary	2a,9a
NFR 3	Intuitive User Interface	The system should be easy to navigate, even for first-time users.	3a
NFR 4	Scalability	The system should handle an increasing number of users and songs without slowing down	4a
NFR 5	Cross-Browser Compatibility	The system should work smoothly on various web browsers	5a,10

Constraint Requirements Description

Constraint Req. ID #	Function Name	Constraint Requirement Description	Software Requirement
CON1	Anywhere, Anytime	You should be able to use our system on your phone, tablet, or computer.	10

CON2	Privacy First	our system follows all the rules about keeping your info private.	9
CON3	Size	It should be less than 150 mega Bytes to make it run on all type of device	11

Constraint Requirements Description

Constraint Req. ID #	Function Name	Constraint Requirement Description	Software Requirement
DOM1	Music Language	We talk the same language as all your favorite music	
DOM2	Accessibility Standards	The system should comply with accessibility standards, ensuring it's usable by everyone, including those with disabilities	