

SRS DOCUMENT

MeloFi

TABLE OF CONTENTS

1. INTRODUCTION

- **1.1 Purpose**
- **1.2 Scope**
- **1.3 Definitions**
- **1.4 Targeted Audience**

2. OVERALL DESCRIPTION

- **2.1 Product Perspective**
- **2.2 User Class**
- **2.3 Operating Environment**
- **2.4 Design Constraints**

3. FUNCTIONAL REQUIREMENTS

- **3.1 User Authentication**
- **3.2 Music Streaming**
- **3.3 Search**
- **3.4 Playlist**

4. TECHNICAL SPECIFICATIONS

- **4.1 Frontend**
- **4.2 Backend Technical Specifications**

1. INTRODUCTION

1.1. PURPOSE

This document lays out a project plan for the development of “Melofi” an open-source music streaming website/app.

1.2. SCOPE

Melofi allows users to stream music online [ad free], create playlists, search songs/artist, and manage accounts

1.3. DEFINITIONS

In the first stage of development, we are focusing only on the user level of website, Admin and creator level of the website will be fulfilled in the second stage of development

1.4. TARGETED AUDIENCE

- Music enthusiasts: Users who are looking for a clean, ad-free music listening platform.
- Content creators: Those who are planning to publish their albums and tracks.
- Students: Users who prefer minimalist interfaces and to play music on background.

2. OVERALL DESCRIPTION

2.1. PRODUCT PERSPECTIVE

MeloFi is a standalone web application accessible via modern browsers.

2.2. USER CLASS

- Guest user
- Registered User

2.3. OPERATING ENVIRONMENT

- Web browser

2.4. Design Constraint's

- Requires internet connection
- Browser-based only

3. FUNCTIONAL REQUIREMENT

3.1. USER AUTHENTICATION

- Users can register, login, and logout.

3.2. MUSIC STREAMING

- Play
- Pause
- Skip
- Favorite
- Loop In Playlist
- Progress bar (to jump to any part of the song)

3.3. SEARCH

- Users can fetch songs by searching

3.4. PLAYLIST

- Users can create, delete and edit playlists.

4. TECHNICAL SPECIFICATIONS

4.1. FRONTEND

- Technologies:HTML5, CSS, JS, REACT

4.2. BACKEND TECHNICAL SPECIFICATIONS

- Flask
- Rest APIs

4.3. DESIGN AND WIREFRAME

- FIGMA

5. CONCLUSION

The development of Melofi aims to provide a high quality, ad-free music streaming experience. It uses React for frontend and flask for backend which ensures good user experience and also make the app scalable.