SOFTWARE REQUIREMENTS SPECIFICATION (MeloFi)

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(I) Project Overview

- MeloFi is a platform for anyone who loves music. It offers a seamless way to explore songs from different genres, create and manage personalized playlists, follow friends or favorite artists, and listen anytime, anywhere across both web and mobile. Designed with inspiration from Spotify and SoundCloud, MeloFi blends the best of music discovery and social interaction into one smooth experience. Whether you're finding new tracks, sharing your playlists, or simply enjoying your favorite tunes, MeloFi makes listening feel easy, personal, and deeply connected to your musical taste.

(II) Goals and Objectives

- Free and OpenSource.

- Multiple device compatibility (Web and Mobile).

- Music discovery and streaming.

- Playlist creation, music sharing system.

- User friendly UI/UX design.

(III) For Whom?

- Music enjoyers / Listeners.

- Music creators and artists.

- Playlist creators and music community maintainers.

(IV) Features to Expect

- Simple user friendly login system

- Seamless music discovery and streaming

- Personal playlist creation - create, edit, manage unlimited playlists.

- User Profile - shows stats such as top artist, fav playlists, followers count etc.

- Notification system - helps you stay updated with latest tracks from your favourite artists.

- Offline Mode / Download option - Allows music streaming without internet.

- Automated AI based song recommendation system. (Future scope)

(V) Tech Stack

- Frontend - React, Kotlin

- Backend - Flask

- Authentication - Password hashing sytem (Bcrypt)

- Design/Prototyping - Figma

- Version Control - GitHub

(VI) Conclusion

- This SRS serves as a complete guide to the system requirements of the software. It clearly outlines what the application is designed to do, who the intended users are, and the key features it offers. By defining these details, the document ensures that developers, designers, and stakeholders share a common understanding of the project's goals and scope, helping maintain clarity and alignment throughout the development process.