Melofi SRS

1. Introduction :-

This document lays out a project plan for the development of “Melofi” , a platform that lets users explore, play and manage music by Janwi Yadav.

2.Project overview :-

MeloFi is a web and mobile-friendly music streaming platform that lets users explore, play, and manage music . Users can log in, discover tracks, view song details, create playlists, like songs, and search for specific tracks — similar in concept to Spotify or SoundCloud, but built in a simpler and achievable way. The goal of this project is to build a platform using beginner-accessible technologies while learning web development concepts like backend logic, frontend design, and user flow. It will also include low-fidelity wireframes to visualize layout and navigation before building the actual interface. This will connect people with music as in today’s world, owning to heavy workload, everyone is having a huge amount of stress and music can be a better way to relieve that stress and enjoy a bit.

3.Project Goals :-

-To design and build a working music web app (and responsive mobile version).

-To help users explore, play, and manage songs efficiently.

-To connect people with music.

-To plan a clear user flow and structure through wireframes before development.

- To integrate core features like login, playlists, and search.

4.Product functions :-

- Music streaming : streaming audio content in various qualities.

-User Management : User registration, login, profile management.

-Playlist Management : Creation, editing and sharing of playlists.

-Search and Discovery: search for music, discover new tracks and artists.

-Recommendations: personalized music recommendations based on listening history.

5. Target users :-

General users who consume music , wants a personal and social music experience , want to discover and play songs. Artists can use it to upload and manage their content. Developers and students can use it as a portfolio and learning project.

6. Core features :-

a. login/signup : Register or sign in securely using username and password.

b.Home screen/ Dashboard : Displays recommended and recently played songs.

c. shows song details, album art, and playback controls when a song is being played.

d. Playlist/ liked songs : users can view and manage their playlists.

e. Search functionality to search for specific tracks, search by song title, artists, or album.

7. Design :-

Tools like Figma or Moqups will be used to create wireframes for both web and mobile, showing the placement of content, buttons, navigation and other interface elements for Melofi. The design phase will ensure that user interface is intuitive, attractive, and consistent across both web and mobile platforms.

8. Basic Tech Stack :-

a. Frontend (web) :- React.js

b. Frontend (mobile) :- Kotlin and jetpack Compose

c. Backend :- Flask and REST APIs

Exoplayer will be used for managing music playback efficiently. Figma/ Moqups for designing wireframes and visual layouts. Local storage for saving of liked songs or playlists using Room or Datastore. Music and cover will be fetched from an API. Optional feature will include dark/light mode toggle, Audio controls (shuffle playlist, repeat track) and progress bar which enable users to jump to a specific point in a song.

9. Conclusion :-

Melofi is designed to bring people closer to music – a space where listeners can discover new songs, share their taste, and enjoy an effortless music experience. This platform aims to create a engaging environment where music becomes more than just something to listen to- It becomes a way to connect , express and feel. Through thoughtful design, intuitive features, and a focus on user experience , Melofi helps to blend technology and emotion turning everyday listening into something personal and memorable. This project marks the beginning of building a community where music truly connects people.