MeloFi

INTRODUCTION

MeloFi is a program that lets users explore, play, and manage music across web and mobile. This program is intended for all those who love music. Melofi lets users to listen to their favorite songs with ease as it uses a simple user-friendly interface.

MeloFi provides users, recommendations , lets user track their recently played songs and their history . It also allows users to edit , create and manage playlist by adding or removing songs moreover it support search functionality such as searching songs based on albums,songs,or artist.

OVERALL DESCRIPTION

MeloFi is a development of per-existing music applications like spotify , apple music . Major function of this application is to provide access to listen to music by searching for their favorite artist or album. This app will also provide daily recommendation and display recently played songs so that user can choose their favorite song easily . MeloFi also provides the user playback controls, album art, and song details .

SYSTEM FEATURES

Login / Registration
- Description: Allows users to log in to their accounts or register as new users.

- Process: User enters credentials; system validates with the database.

- Output: Grants access if credentials are valid; otherwise prompts registration.

Search Functionality
- Description: Enables users to search for songs, albums, or artists.

- Input: Search keywords entered by the user.

- Process: The system queries the database via the backend API.

- Output: Displays matching results or "No results found."

Song Description
- Description: Displays details of a selected song including artist name, album, and lyrics (if available).

- Output: Shows album art, playback options, and metadata.

Playlist Management
- Description: Users can create, edit, and delete playlists.

- Process: Add or remove songs from playlists.

- Output: Updated playlists displayed on the user's dashboard.

Playback Controls

- Description: Standard playback options for each song — play/pause, next, and previous.

- Process: Control music playback within the player interface.

Dark and Light Mode

- Description: Users can toggle between dark and light modes for better visibility and comfort.

- Process: The system stores the user's theme preference in their profile settings.

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GOALS

To create user friendly music application

TEACH STACK

Front-end(web) – React . js

Mobile – Kotlin , jetpack compose

Back-end – flask, rest api
Database – PostgreSQL or mysql