Project Documentation

Rhythmic Tunes: Your Melodic Companion

1. Introduction

- **Project Title:** RhythmicTunes: Your Melodic Companion
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2. Project Overview

- **Purpose:** To provide a platform for people who are passionate about music and enjoy listening to it during their free time to relax and unwind.
- **Features:**
  - Listen to your favorite music anytime
  - Search Functionality to easily find your favorite songs
  - Favorites Library to save and access your preferred tracks
  - Ability to create, edit, and manage playlists and your Favorites Library

3. Architecture

- **Frontend:** Built using React.js, styled with Tailwind CSS, and uses Lucide-react for modern, scalable icons.

- **DB**: JSON files are used to store and manage data locally, acting as a lightweight mock database.

4. Setup Instructions

- **Prerequisites:**
  - Node js
  - Visual Studio Code
  - Javascriot
  - Git
  - React JS

- **Installation Steps:**

```
# Clone the repository git clone

# Install client dependencies cd

npm install
```

5. Folder Structure

- public/
- src/
  - ├— assets/
  - ├— db/
  - ├— pages/
  - │ └— Home.jsx
  - │ └— test.txt
  - ├— App.css
  - ├— App.jsx
  - ├— index.css
  - ├— main.jsx
- .gitignore
- README.md
- eslint.config.js
- index.html
- package-lock.json

- package.json
- vite.config.js

6. Running the Application

- **Frontend:**

  cd music

  npm run dev

- **Access:** Visit http://localhost:5173

7. User Interface

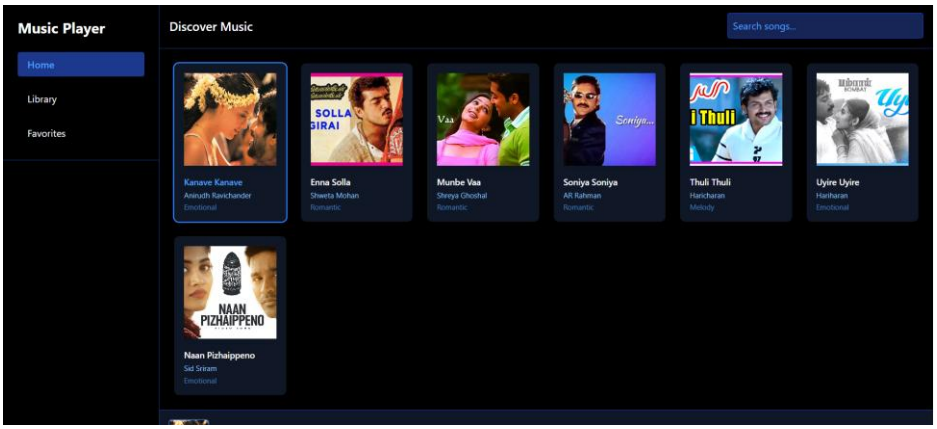
- Home Page
- Libraries
- Favorites page

8. Testing

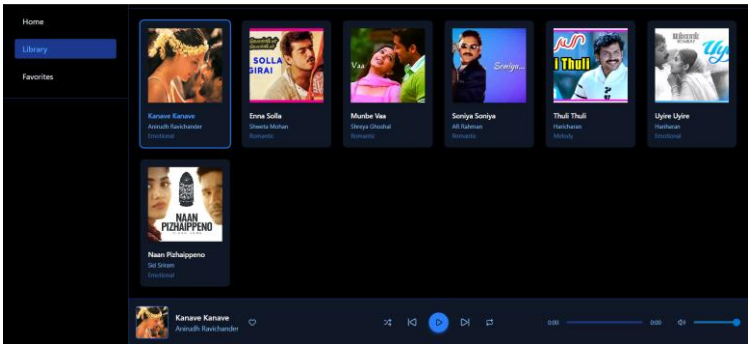
- Manual testing during milestones

9. Screenshots or Demo

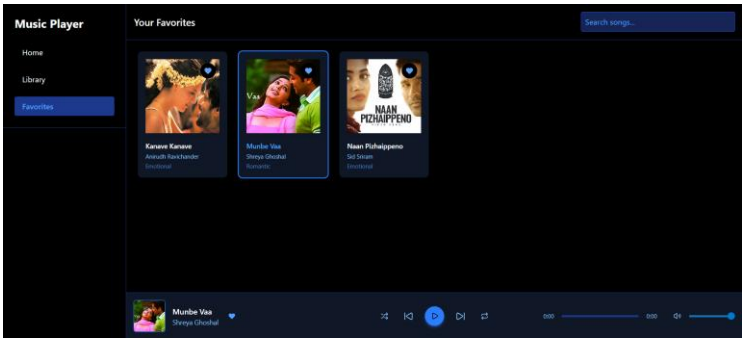
HOME PAGE



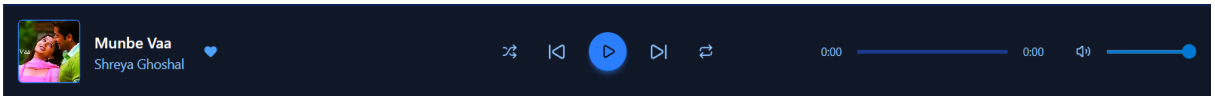
LIBRARIES



FAVORITES PAGE



AUDIO PLAY UI



10. Known Issues

Limited Search Accuracy
The current search functionality is keyword-based and may not return accurate results for misspelled or incomplete queries.

11. Future Enhancements

Semantic Search Integration
Instead of traditional keyword-based search, semantic search will be implemented to understand the user's intent and provide more accurate and relevant music results.

Voice Search Option
A voice-based search feature will be added to allow users to search for music using their voice, improving accessibility and convenience.

Personalized Recommendation System
Based on the user's listening history and preferences, the system will suggest personalized music recommendations to enhance user engagement.

Dark Mode Support
A dark mode feature will be introduced to improve the user interface experience, especially in low-light environments.