

Project Documentation

1. Introduction

- o Project Title : Rhythmic Tunes: your melodic companion
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2. Project Overview

- o Purpose: The purpose of the Rhythmic Tunes Music Player is to provide a user-friendly application for playing music..
- o Features: Key features include: music playback, playlist creation, and search functionality.

3. Architecture

- o Component Structure: Key features include: music playback, playlist creation, and search functionality.
- o State Management: The application uses the Context API for global state management to handle the current song, playback status, and user-created playlists.
- o Routing: React Router is used to manage navigation between different views, such as the home page and the playlist page

4. Setup Instructions

- o Prerequisites: The required software dependencies are Node.js and npm ,React.js.
- o Installation: Provide a step-by-step guide to Clone the repository from GitHub. Navigate to the client directory.
- o * Run npm install to install dependencies.
- o * Configure environment variables for any API keys

5. Folder Structure

- o Client: The main React application is organized into folders such as components, pages, and assets for images and audio files.
- o Utilities: Helper functions for music playback and custom hooks for managing audio state are located in the utils folder
- o Code:
 - o project-name/
 - o public/
 - o index.html
 - o favicon.ico
 - o src/
 - o assets/

- Provide screenshots or GIFs showcasing different UI features, such as pages, forms, or interactions.

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10. Styling

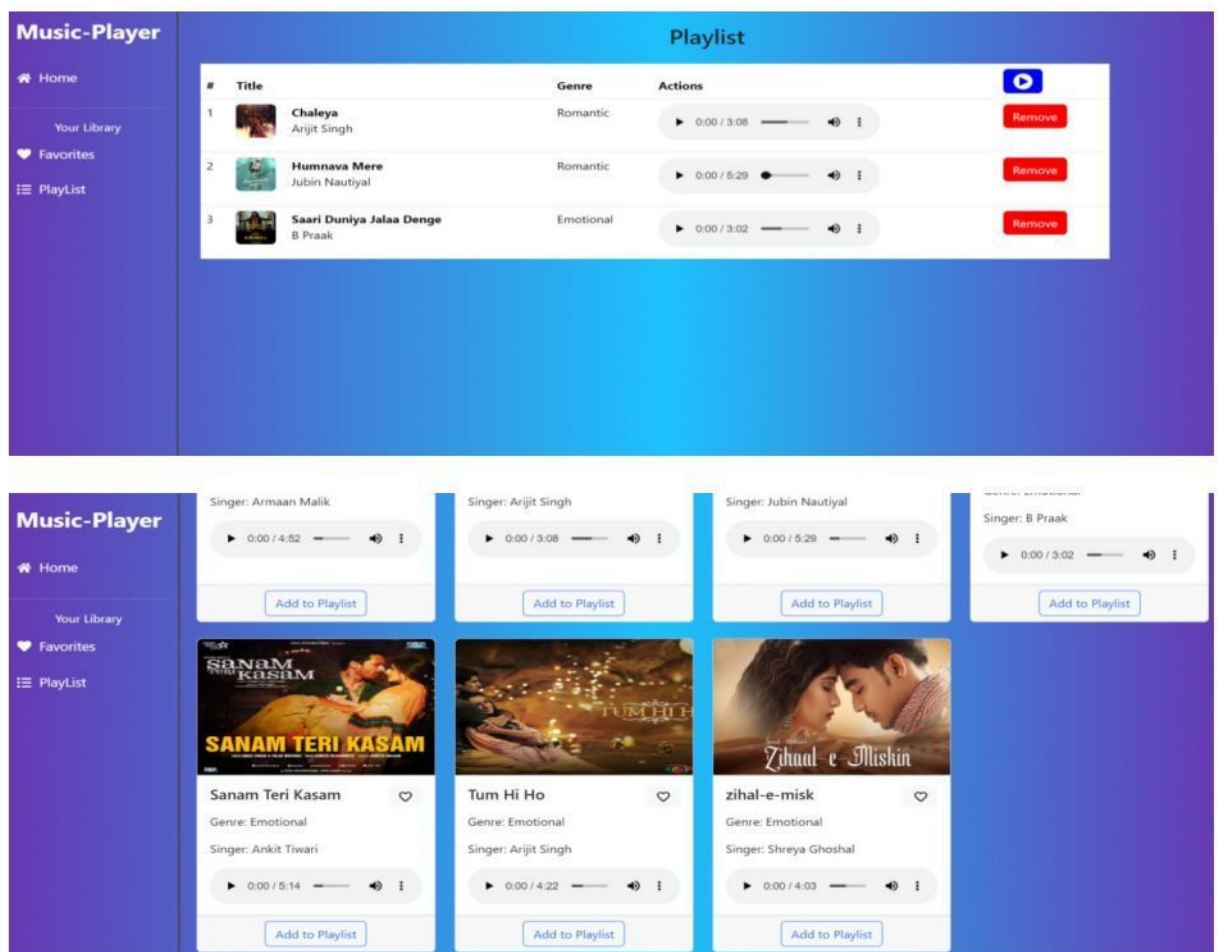
- **CSS Frameworks/Libraries:** Describe any CSS frameworks, libraries, or pre-processors (e.g., Sass, Styled-Components) used.
- **Theming:** A custom design system with light and dark themes is implemented

11. Testing

- **Testing Strategy:** The application uses Jest and React Testing Library for unit and integration testing of components.

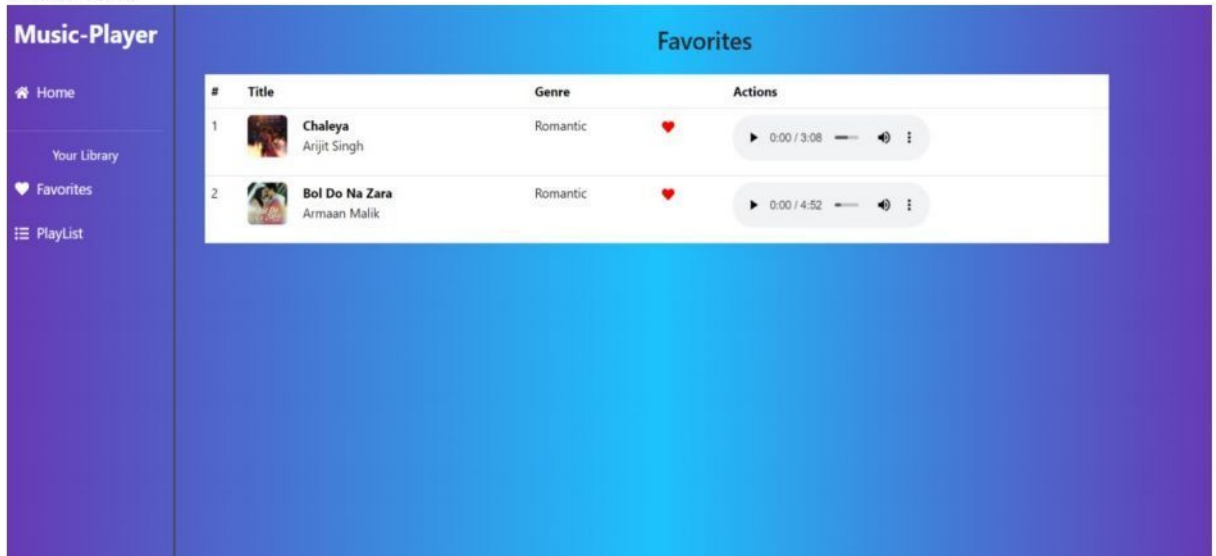
12. **Code Coverage:** Code coverage is tracked using a tool to ensure all key components are adequately tested.

13. Screenshots or Demo:



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13. Known Issues

- Any known bugs or issues, such as occasional playback glitches on certain browsers, should be documented here

14. Future Enhancements

- Potential future features could include a user authentication system, enhanced search functionality, and adding more animations to the user interface.

15. DEMOLINK:

- https://drive.google.com/file/d/1DozFUlo3wyvhVFyyd-E3alVq5Dy_BK54/view?usp=sharing