

# Music Listing and Rating Application

Use case document

## **INTRODUCTION**

Music is a significant and often emotional experience for many people. It is an innovative web application designed to revolutionize the way users discover, explore, and rate music. With an extensive database and user-friendly interface, the application empowers music enthusiasts to navigate the vast landscape of musical genres, artists, and albums. The application features a robust search engine that allows users to effortlessly explore a rich collection of music based on various criteria, including genre, artist, album, etc. Users can rate and review songs, providing valuable feedback.

## Add New Music Tracks

Use Case	Add New Music Tracks
Brief Description	The admin adds new music tracks to the music library.
Actors	Admin
Preconditions	The admin is logged into the system
Basic Flow	<ol style="list-style-type: none"><li>1. The admin selects the "Add New Music Tracks" option.</li><li>2. The admin provides the necessary details such as title, artist, album, genre, and uploads the music file.</li><li>3. The system validates the input data.</li><li>4. The system stores the track information and music file in the music library.</li></ol>
Alternate Flows	None
Post Conditions	The new music track is successfully added to the music library.

## Edit Existing Music Tracks

Use Case	Edit Existing Music Tracks
Brief Description	The admin edits the details of existing music tracks in the music library.
Actors	Admin
Preconditions	The admin is logged into the system and there are existing music tracks in the music library.
Basic Flow	<ol style="list-style-type: none"><li>1. The admin selects the "Edit Existing Music Tracks" option.</li><li>2. The admin retrieves the details of the music track to be edited.</li><li>3. The admin modifies the necessary details such as title, artist, album, or genre.</li><li>4. The system updates the track information in the music library.</li></ol>
Alternate Flows	None
Post Conditions	The changes to the music track details are successfully saved in the music library.

## Delete Music Tracks

Use Case	Delete Music Tracks
Brief Description	The admin deletes music tracks from the music library.
Actors	Admin
Preconditions	The admin is logged into the system and there are existing music tracks in the music library.
Basic Flow	<ol style="list-style-type: none"><li>1. The admin selects the "Delete Music Tracks" option.</li><li>2. The admin selects the music track(s) to be deleted.</li><li>3. The system prompts for confirmation.</li><li>4. The admin confirms the deletion.</li><li>5. The system deletes the selected music track(s) from the music library.</li></ol>
Alternate Flows	None
Post Conditions	The selected music track(s) are successfully deleted from the music library.

## View Complete Details of Music Tracks

Use Case	View Complete Details of Music Tracks
Brief Description	The admin accesses and views the complete details of music tracks, including ratings and reviews.
Actors	Admin
Preconditions	The admin is logged into the system and there are existing music tracks in the music library.
Basic Flow	<ol style="list-style-type: none"><li>1. The admin selects the "View Complete Details" option.</li><li>2. The system retrieves and displays a list of all music tracks in the music library.</li><li>3. The admin selects a specific music track to view its complete details.</li><li>4. The system presents the complete details of the selected music track, including ratings and reviews.</li></ol>
Alternate Flows	None
Post Conditions	The admin successfully views the complete details of the selected music track.

## User Account Creation

Use Case	User Account Creation
Brief Description	The user creates a new account providing necessary details.
Actors	User
Preconditions	None
Basic Flow	<ol style="list-style-type: none"><li>1. The user selects the "User Login" option.</li><li>2. The "Create Account" option is picked by the user.</li><li>3. The user provides the necessary data to create an account, including a username, email address, and password.</li><li>4. The system creates a new user account after validating the input data.</li></ol>
Alternate Flows	None
Postconditions	The user successfully created an account

## User Login

Use Case	User Login
Brief Description	The user logs into the account using credentials.
Actors	User
Precondition	The user already created the account
Basic Flow	<ol style="list-style-type: none"><li>1. The user selects the “user Login” option.</li><li>2. The user enters credentials(username/email and password).</li><li>3. The system verifies the credentials and logs the user into their account.</li></ol>
Alternate Flow	<ol style="list-style-type: none"><li>1. If the credentials are wrong, display the message “credential is incorrect”.</li><li>2. Retype the credentials.</li></ol>
Postcondition	The user logs into the application.



## View Music Track Details

Use Case	View music track details
Brief Description	The user views the details of the music track.
Actors	User
Precondition	The user is signed into their account, and there are existing music tracks in the music library.
Basic Flow	<ol style="list-style-type: none"><li>1. The user searches or browses for music tracks.</li><li>2. The system fetches and displays the details of selected music tracks such as title,artist,album,genre, and other relevant information.</li></ol>
Alternate Flows	None
Postcondition	The user is able to successfully view the details of the chosen song.

## Search Functionality

Use Case	Search functionality
Brief Description	The user searches for specific music tracks by title, artist, album, or genre.
Actors	User
Precondition	The user is signed into their account, and there are existing music tracks in the music library.
Basic Flow	<ol style="list-style-type: none"><li>1. The user enters the keyword in the search box(title,artist,album or genre).</li><li>2. The system performs a search function according to the keywords.</li><li>3. The system retrieves and displays the search results matching the keyword.</li></ol>
Alternate Flow	If the matching result of the keyword does not find the message "Result not found".
Postcondition	The user successfully views the search result.

## Rating and Review

Use Case	Rating and Review
Brief Description	The user rates the music track and adds review/comment optionally.
Actors	User
Precondition	The user is signed into their account, and there are existing music tracks in the music library.
Basic Flow	<ol style="list-style-type: none"><li>1. The user selects the music track.</li><li>2. The user provides a rating (1-5 stars) for selected music.</li><li>3. The user has the option to fill the review/comment field.</li><li>4. The system stores the rating and review/comments.</li></ol>
Alternate Flows	None
Postcondition	The user successfully rate the music and optionally add review/comment.