

# **Music Listing and Rating Application**

# Use Case Document

## **Add Song**

**Use Case:** Add Song

**Brief Description:** The administrator adds a new song to the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "Add Song" option.
2. Administrator provides the necessary details of the song, such as title, artist, album, genre, and duration.
3. The system validates the input data.
4. The system adds the song to the music listing database.

**Alternate Flows:** None

**Post Conditions:** The song is successfully added to the music listing.

## **Update Song**

**Use Case:** Update Song

**Brief Description:** The administrator updates an existing song in the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "Update Song" option.
2. Administrator searches for the song to be updated by providing relevant details such as title, artist, or album.
3. The system retrieves the song from the database.
4. Administrator modifies the song details, such as title, artist, album, genre, or duration.
5. The system validates the updated data.
6. The system saves the changes to the music listing database.

**Alternate Flows:** None

**Post Conditions:** The song is successfully updated in the music listing.

## **Delete Song**

**Use Case:** Delete Song

**Brief Description:** The administrator deletes a song from the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "Delete Song" option.
2. Administrator searches for the song to be deleted by providing relevant details such as title, artist, or album.
3. The system retrieves the song from the database.
4. Administrator confirms the deletion of the song.
5. The system removes the song from the music listing database.

**Alternate Flows:** None

**Post Conditions:** The song is successfully deleted from the music listing.

## **View Song**

**Use Case:** View Song

**Brief Description:** The administrator views the details of a song in the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "View Song" option.
2. Administrator searches for the desired song by providing relevant details such as title, artist, or album.
3. The system retrieves the song from the database.
4. The system displays the song details, including title, artist, album, genre, and duration.

**Alternate Flows:** None

**Post Conditions:** The song details are successfully displayed to the administrator.

## **Add Album**

**Use Case:** Add Album

**Brief Description:** The administrator adds a new album to the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "Add Album" option.
2. Administrator provides the necessary details of the album, such as title, artist, release year, and genre.
3. The system validates the input data.
4. The system adds the album to the music listing database.

**Alternate Flows:** None

**Post Conditions:** The album is successfully added to the music listing.

## **Update Album**

**Use Case:** Update Album

**Brief Description:** The administrator updates an existing album in the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "Update Album" option.
2. Administrator searches for the album to be updated by providing relevant details such as title or artist.
3. The system retrieves the album from the database.
4. Administrator modifies the album details, such as title, artist, release year, or genre.
5. The system validates the updated data.
6. The system saves the changes to the music listing database.

**Alternate Flows:** None

**Post Conditions:** The album is successfully updated in the music listing.

## **Delete Album**

**Use Case:** Delete Album

**Brief Description:** The administrator deletes an album from the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "Delete Album" option.
2. Administrator searches for the album to be deleted by providing relevant details such as title or artist.
3. The system retrieves the album from the database.
4. Administrator confirms the deletion of the album.
5. The system removes the album from the music listing database.

**Alternate Flows:** None

**Post Conditions:** The album is successfully deleted from the music listing.



## **View Album**

**Use Case:** View Album

**Brief Description:** The administrator views the details of an album in the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "View Album" option.
2. Administrator searches for the desired album by providing relevant details such as title or artist.
3. The system retrieves the album from the database.
4. The system displays the album details, including title, artist, release year, and genre.

**Alternate Flows:** None

**Post Conditions:** The album details are successfully displayed to the administrator.

## **Add Artist**

**Use Case:** Add Artist

**Brief Description:** The administrator adds a new artist to the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "Add Artist" option.
2. Administrator provides the necessary details of the artist, such as name, biography, and genre.
3. The system validates the input data.
4. The system adds the artist to the music listing database.

**Alternate Flows:** None

**Post Conditions:** The artist is successfully added to the music listing.

## **Update Artist**

**Use Case:** Update Artist

**Brief Description:** The administrator updates an existing artist in the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "Update Artist" option.
2. Administrator searches for the artist to be updated by providing relevant details such as name.
3. The system retrieves the artist from the database.
4. Administrator modifies the artist details, such as name, biography, or genre.
5. The system validates the updated data.
6. The system saves the changes to the music listing database.

**Alternate Flows:** None

**Post Conditions:** The artist is successfully updated in the music listing.

## **Delete Artist**

**Use Case:** Delete Artist

**Brief Description:** The administrator deletes an artist from the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "Delete Artist" option.
2. Administrator searches for the artist to be deleted by providing relevant details such as name.
3. The system retrieves the artist from the database.
4. Administrator confirms the deletion of the artist.
5. The system removes the artist from the music listing database.

**Alternate Flows:** None

**Post Conditions:** The artist is successfully deleted from the music listing.

## **View Artist**

**Use Case:** View Artist

**Brief Description:** The administrator views the details of an artist in the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "View Artist" option.
2. Administrator searches for the desired artist by providing relevant details such as name.
3. The system retrieves the artist from the database.
4. The system displays the artist details, including name, biography, and genre.

**Alternate Flows:** None

**Post Conditions:** The artist details are successfully displayed to the administrator.

## **View Rating**

**Use Case:** View Rating

**Brief Description:** The administrator views the ratings for a song or album in the music listing and rating application.

**Actors:** Administrator

**Preconditions:** Administrator is logged into the system.

**Basic Flow:**

1. Administrator selects the "View Rating" option.
2. Administrator searches for the desired song or album by providing relevant details such as title, artist, or album name.
3. The system retrieves the ratings for the selected song or album from the database.
4. The system displays the ratings, including the average rating and individual user ratings.

**Alternate Flows:** None

**Post Conditions:** The ratings for the song or album are successfully displayed to the administrator.

## **Search Song**

**Use Case:** Search Song

**Brief Description:** The user searches for a song in the music listing and rating application.

**Actors:** User

**Preconditions:** User is logged into the system.

**Basic Flow:**

1. User selects the "Search Song" option.
2. User enters the search criteria, such as title, artist, or album.
3. The system retrieves the matching songs from the database.
4. The system displays the search results, including the songs that match the search criteria.

**Alternate Flows:** None

**Post Conditions:** The search results are successfully displayed to the user.

## **Add Rating**

**Use Case:** Add Rating

**Brief Description:** The user adds a rating to a song or album in the music listing and rating application.

**Actors:** User

**Preconditions:** User is logged into the system.

**Basic Flow:**

1. User selects the "Add Rating" option.
2. User searches for the desired song or album by providing relevant details such as title, artist, or album name.
3. The system retrieves the selected song or album from the database.
4. User provides a rating for the selected song or album.
5. The system saves the user's rating in the database.

**Alternate Flows:** None

**Post Conditions:** The user's rating is successfully added to the song or album.



## **View Rating**

**Use Case:** View Rating

**Brief Description:** The user views the ratings for a song or album in the music listing and rating application.

**Actors:** User

**Preconditions:** User is logged into the system.

**Basic Flow:**

1. User selects the "View Rating" option.
2. User searches for the desired song or album by providing relevant details such as title, artist, or album name.
3. The system retrieves the ratings for the selected song or album from the database.
4. The system displays the ratings, including the average rating and individual user ratings.

**Alternate Flows:** None

**Post Conditions:** The ratings for the song or album are successfully displayed to the user.