Music Listing and Rating Application

Use Case Document

Introduction

The Music Listing and Rating Application is a user-friendly and interactive platform designed to provide a comprehensive database of songs, albums, and artists, allowing them to explore, discover, and rate their favorite music.

Actors

- **User**: Interacts with the application to browse music, rate and review songs, receive personalized recommendations.

- **Administrator**: Manages the application, ensuring user accounts are handled appropriately, content is moderated, and system functionalities are maintained.

Use Cases

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.