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<Museos>  
**Use-Case Specification**

**Version <1.0>**

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## Revision History

Date	Version	Description	Author
10/11/2023	1.0	2.1, 2.13, 2.14, 2.15	Nguyen Thien Tho
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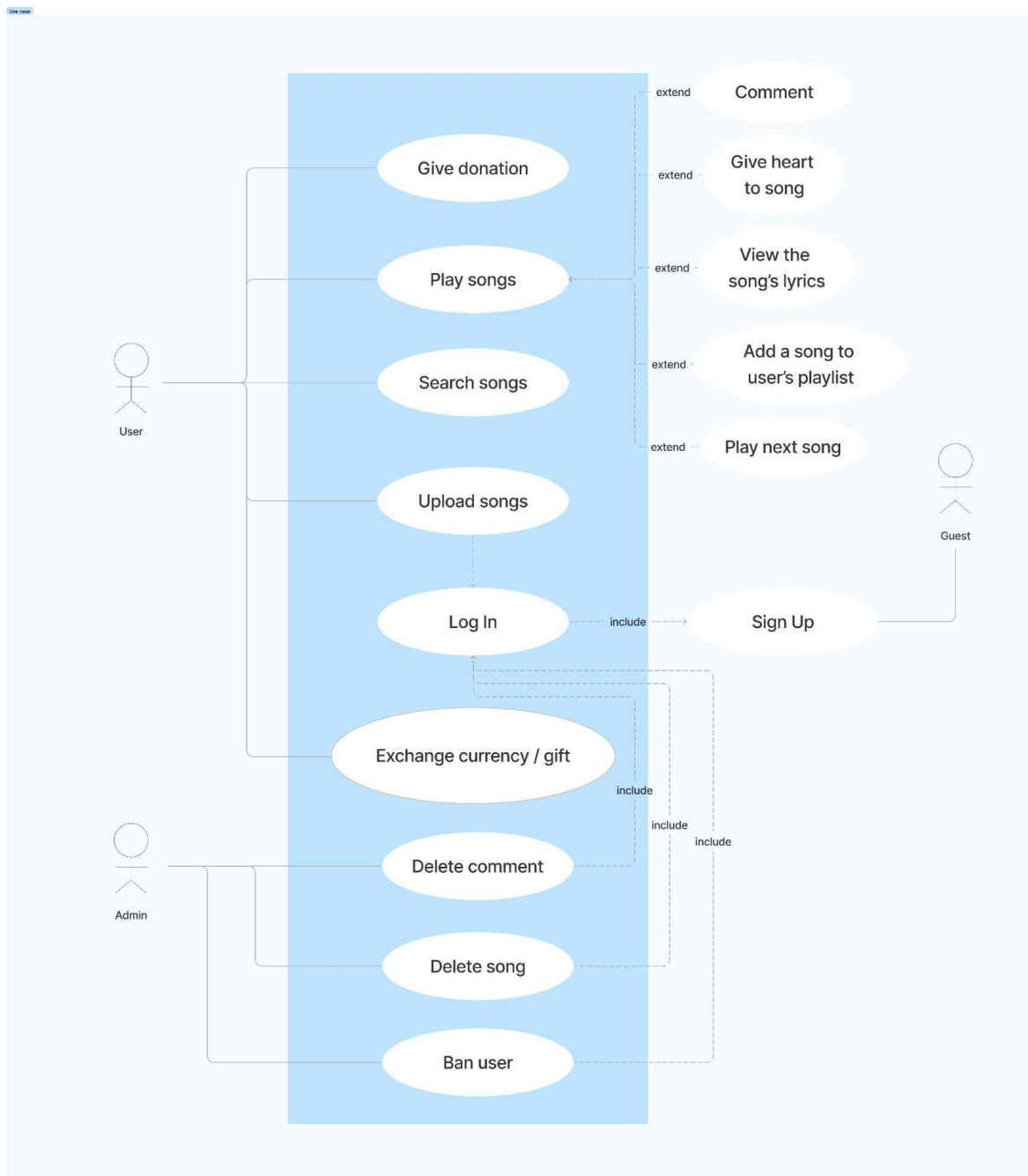
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## 1. Use-case Model



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## 2. Use-Case Specifications

### a. 2.1 Use-Case: Search songs

<b>Use-case name</b>	Search Songs.
<b>Brief description</b>	This use case outlines how a user can search for songs on the music platform.
<b>Actors</b>	User.
<b>Basic flow</b>	<p><b>Step 1:</b> At the homepage, the user enters keywords in the <b>Search</b> field for songs.</p> <p><b>Step 2:</b> User clicks on the <b>Search</b> button to initiate the search for songs.</p> <p><b>Step 3:</b> The system displays the songs found based on the entered keywords.</p> <p><b>Step 4:</b> Users can preview or select a specific song from the search results.</p>
<b>Alternative flow</b>	<p><b>Alternative flow: User cannot find products searched</b></p> <ol style="list-style-type: none"> <li>From #3 of the basic flow, the system notifies the user that no songs were found.</li> <li>User can enter different keywords and continue from step #2 in the basic flow.</li> </ol>
<b>Pre-condition</b>	The user is on the Homepage.
<b>Post-condition</b>	The user successfully finds and interacts with the searched songs.

b.

### c. 2.2 Use-Case: Play the song

<b>Use-case name</b>	Play the song.
<b>Brief description</b>	This use case describes how the listeners can play the song.
<b>Actors</b>	User.
<b>Basic flow</b>	<p><b>Step 1:</b> On many pages, the actor types the song's name in the "Search" bar to find the song.</p> <p><b>Step 2:</b> System shows songs that have the same name as the result.</p> <p><b>Step 3:</b> Actor clicks on the song.</p> <p><b>Step 4:</b> System plays the song for the actor.</p>
<b>Alternative flow</b>	<p><b>Alternative flow 1: The song can't be found</b></p> <ol style="list-style-type: none"> <li>From #1 of the basic flow, the actor searches for another nam</li> </ol>

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	2. Continue #2 in the basic flow <b>Alternative flow 2: The song is being played</b> System opens the “playing song” screen again.
<b>Pre-condition</b>	Actor has to log in to listen to the song.
<b>Post-condition</b>	The song that the actor finds is played.

d. **2.3 Use-Case: Give a comment to the song**

<b>Use-case name</b>	Give a comment to the song.
<b>Brief description</b>	This use case describes how the listeners can give comments to the playing song.
<b>Actors</b>	User.
<b>Basic flow</b>	<b>Step 1:</b> At the “playing song” screen, the actor clicks the “three dot” symbol above the progress bar. <b>Step 2:</b> When the heart is filled , the song is added to the actor's “favorite songs”. <b>Step 3:</b> Actor clicks on the comment function. <b>Step 4:</b> System shows the “comment” screen. <b>Step 5:</b> Actor writes the comment.
<b>Alternative flow</b>	<b>Alternative flow: The comment is inappropriate</b> The comment is deleted and a warning message is sent to the commenter.
<b>Pre-condition</b>	Actor goes to the Song page.
<b>Post-condition</b>	Actor successfully leaves the comment of the song.

e. **2.4 Use-Case: Give heart to the song**

<b>Use-case name</b>	Give heart to the song.
<b>Brief description</b>	This use case describes how the listeners can give heart to the playing song.
<b>Actors</b>	User.
<b>Basic flow</b>	<b>Step 1:</b> At the Song page, the actor clicks the <b>Heart</b> symbol above the

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	progress bar. <b>Step 2:</b> System shows the detail box including a comment function.
<b>Alternative flow</b>	<b>Alternative flow: Heart is already given</b> Heart is removed when the actor clicks on a filled heart.
<b>Pre-condition</b>	Actor goes to the Song page.
<b>Post-condition</b>	Actor successfully added the song to “favorite songs” playlist.

#### f. 2.5 Use-Case: View the song’s lyrics

<b>Use-case name</b>	View the song’s lyrics.
<b>Brief description</b>	This use case describes how the listeners can view the song’s lyrics.
<b>Actors</b>	User.
<b>Basic flow</b>	<b>Step 1:</b> At the Song page, the song’s lyrics are shown next to the song's poster.
<b>Alternative flow</b>	<b>Alternative flow: Artist doesn’t upload the lyrics</b> The lyrics are not shown.
<b>Pre-condition</b>	Actor goes to the Song page.
<b>Post-condition</b>	Actors can follow the song with the lyrics.

#### g. 2.6 Use-Case: Add a song to the user’s playlist

<b>Use-case name</b>	Add a song to the user's playlist.
<b>Brief description</b>	This use case describes how the listeners can add a song to the playlist.
<b>Actors</b>	User.
<b>Basic flow</b>	<b>Step 1:</b> At the Song page, the actor clicks the <b>Three Dot</b> symbol above the progress bar. <b>Step 2:</b> Actor selects the <b>Add To Playlist</b> button. <b>Step 3:</b> System shows all the playlists of the actor.

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	<b>Step 4:</b> Actor chooses which playlist for the song. <b>Step 5:</b> When the playlist is selected, a message will appear announcing the song is successfully added.
<b>Alternative flow</b>	<b>Alternative flow: No playlist is created</b> <ol style="list-style-type: none"> <li>From #3 of the basic flow, the actor adds a new playlist.</li> <li>Enter the name of the playlist and press enter or click <b>OK</b>.</li> </ol>
<b>Pre-condition</b>	Actor goes to the Song page.
<b>Post-condition</b>	Actors can add the song to the playlist.

#### h. 2.7 Use-Case: Play the next song

<b>Use-case name</b>	Play the next song.
<b>Brief description</b>	This use case describes how the listeners can play the next song.
<b>Actors</b>	User.
<b>Basic flow</b>	<b>Step 1:</b> At the Song page, click the <b>Next</b> button or click the <b>Next Song</b> box in the bottom right corner. <b>Step 2:</b> System shows the next song from the queue.
<b>Alternative flow</b>	<b>Alternative flow: There is no song from the queue</b> The song is randomly chosen from the system's library.
<b>Pre-condition</b>	Actor goes to the Song page.
<b>Post-condition</b>	Actors can play the next song from the queue or randomly.

#### i. 2.8 Use-Case: Delete comment

<b>Use-case name</b>	Delete comments.
<b>Brief description</b>	This use case describes how the admin can delete a comment that he/she finds unfit with the community standard.
<b>Actors</b>	Admin.



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<b>Basic flow</b>	<b>Step 1:</b> Admin click on the <b>delete comment</b> button. <b>Step 2:</b> A pop-up appears to ask for action confirmation. <b>Step 3:</b> The admin clicks <b>Confirm</b> on the pop-up. <b>Step 4:</b> The system deletes the user's comment.
<b>Alternative flow</b>	<b>Alternative flow: Cancel confirmation process</b> <ol style="list-style-type: none"> <li>1. When the pop-up appears, instead of clicking <b>Confirm</b> the admin choose <b>Cancel</b>.</li> <li>2. The pop-up closes. There is no transaction happening.</li> </ol>
<b>Pre-condition</b>	Admin hover to the delete comment button next to the user's comment.
<b>Post-condition</b>	<b>Post-condition:</b> The admin gets a notification of successful system transaction and the comment is deleted from the database

#### j. 2.9 Use-Case: Delete song

<b>Use-case name</b>	Delete Song
<b>Brief description</b>	This use case describes how the admin deletes a user's song.
<b>Actors</b>	Admin.
<b>Basic flow</b>	<b>Step 1:</b> Admin click on the <b>delete song</b> button next to each song. <b>Step 2:</b> A pop-up appears to ask for action confirmation. <b>Step 3:</b> The admin clicks <b>Confirm</b> on the pop-up. <b>Step 4:</b> The system deletes the user's song.
<b>Alternative flow</b>	<b>Alternative flow: Cancel confirmation process</b> <ol style="list-style-type: none"> <li>1. When the pop-up appears, instead of clicking <b>Confirm</b> the admin choose <b>Cancel</b>.</li> <li>2. The pop-up closes. There is no transaction happening.</li> </ol>
<b>Pre-condition</b>	Admin goes to the user's profile page and a list of the user's songs show up.
<b>Post-condition</b>	<b>Post-condition:</b> The admin gets a notification of successful system transaction and the song is deleted from the database.

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#### k. 2.10 Use-Case: Ban user

<b>Use-case name</b>	Ban users.
<b>Brief description</b>	This use case describes how the admin bans a user.
<b>Actors</b>	Admin.
<b>Basic flow</b>	<p><b>Step 1:</b> The admin clicks on the “...” button on the user profile picture.</p> <p><b>Step 2:</b> A list of options shows up, one is <b>Ban user</b>. The admin chooses <b>Ban user</b>.</p> <p><b>Step 3:</b> A pop-up appears to ask for action confirmation.</p> <p><b>Step 4:</b> The admin clicks <b>Confirm</b> on the pop-up.</p> <p><b>Step 5:</b> The system bans the user.</p>
<b>Alternative flow</b>	<p><b>Alternative flow: Cancel confirmation process</b></p> <ol style="list-style-type: none"> <li>1. When the pop up appears, instead of clicking <b>Confirm</b> the admin choose <b>Cancel</b>.</li> <li>2. The pop-up closes. There is no transaction happening.</li> </ol>
<b>Pre-condition</b>	Admin go to the user’s profile page.
<b>Post-condition</b>	<p><b>Post-condition:</b></p> <p>The admin gets a notification of successful system transaction and the user is banned.</p>

#### l. 2.11 Use-Case: Exchange currency/gift

<b>Use-case name</b>	Exchange currency/gift
<b>Brief description</b>	This use case describes how users can exchange from normal currency to the platform's gift currency and vice versa.
<b>Actors</b>	User.
<b>Basic flow</b>	<p><b>Step 1:</b> The user hovers on their profile picture at the top right section of the home page.</p> <p><b>Step 2:</b> A list of options shows up, one is <b>Payment</b>. Users choose this option.</p> <p><b>Step 3:</b> A pop-up shows up, asking the user if they want to make a normal currency =&gt; gift transaction or a gift =&gt; normal currency transaction. The user chooses as they want.</p>

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	<p><b>Step 4:</b> The pop-up changes into a number form that the user can type in.</p> <p><b>Step 5:</b> The user enters the amount they want to transfer and hits the <b>Confirm</b> button.</p> <p><b>Step 6:</b> The pop-up closes and the transaction begins.</p>
<b>Alternative flow</b>	<p><b>Alternative flow 1: The User doesn't choose any option and click Cancel when the pop-up shows up.</b></p> <ol style="list-style-type: none"> <li>1. The User clicks the <b>Cancel</b> button.</li> <li>2. The pop-up closes and there is no transaction happening.</li> </ol> <p><b>Alternative flow 2: The User cancels after choosing the currency – gift option they want.</b></p> <ol style="list-style-type: none"> <li>3. The Users click the <b>Cancel</b> button.</li> <li>4. The pop-up closes and there is no transaction happening.</li> </ol>
<b>Pre-condition</b>	Users go to the home page.
<b>Post-condition</b>	<p><b>Post-condition:</b></p> <p>The system processes the transaction and the user gets the result of the transaction. If user account balance will be adjusted.</p>

#### m. 2.12 Use-Case: Donation

<b>Use-case name</b>	Donation.
<b>Brief description</b>	Users give donations to another user.
<b>Actors</b>	User.
<b>Basic flow</b>	<p><b>Step 1:</b> The User clicks on the “...” button on the user's profile picture.</p> <p><b>Step 2:</b> A pop-up shows up with a number form for the User to enter the amount of gift they wish to donate.</p> <p><b>Step 3:</b> Users type the amount and click <b>Confirm</b>.</p> <p><b>Step 4:</b> The gift is transferred from the user's balance to target balance.</p> <p><b>Step 5:</b> The pop-up close.</p>
<b>Alternative flow</b>	<p><b>Alternative flow: User cancels the donation</b></p> <ol style="list-style-type: none"> <li>1. Users click on the <b>Cancel</b> button and the pop-up closes.</li> </ol>
<b>Pre-condition</b>	The user goes to the profile page of the other user that they wish to give a donation to.

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<b>Post-condition</b>	<b>Post-condition:</b> The system processes the transaction and the user gets the result of the transaction. The user and artist balance will be adjusted.
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#### n. 2.13 Use-Case: Sign up

<b>Use-case name</b>	Sign Up.
<b>Brief description</b>	This use case describes how a guest can create a new account on the music platform.
<b>Actors</b>	Guest.
<b>Basic flow</b>	<p><b>Step 1:</b> Guest navigates to the <b>Sign Up</b> section at the Sign Up page.</p> <p><b>Step 2:</b> Guest provides required information such as email, username, and password.</p> <p><b>Step 3:</b> Guest clicks the <b>Sign Up</b> button.</p> <p><b>Step 4:</b> The system validates the provided information and creates a new user account.</p> <p><b>Step 5:</b> The system logs in the newly created user automatically and directs them to Homepage.</p>
<b>Alternative flow</b>	<p><b>Alternative flow: Existing Email/Username, Missing Information, Invalid Password</b></p> <ol style="list-style-type: none"> <li>1. The system notifies the guest.</li> <li>2. Guest is prompted to choose a different email or username and continues from step #3.</li> </ol>
<b>Pre-condition</b>	The guest is on the Sign Up page.
<b>Post-condition</b>	The user successfully logs in and directs them to Homepage.

#### o. 2.14 Use-Case: Log in

<b>Use-case name</b>	Log In.
<b>Brief description</b>	This use case outlines the steps for an existing user to log in to the music platform.

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<b>Actors</b>	User.
<b>Basic flow</b>	<b>Step 1:</b> User navigates to the <b>Login</b> section at the Login page. <b>Step 2:</b> User enters their registered email/username and password. <b>Step 3:</b> User clicks the <b>Login</b> button. <b>Step 4:</b> The system verifies the entered credentials. <b>Step 5:</b> If the credentials are valid, the system logs the user in and directs them to Homepage.
<b>Alternative flow</b>	<b>Alternative flow: Incorrect Credentials</b> <ol style="list-style-type: none"> <li>From #5 of the basic flow, if the entered credentials are invalid, the system notifies the user of the incorrect information.</li> <li>User is prompted to re-enter the correct email/username and password and continues from step #3.</li> </ol>
<b>Pre-condition</b>	User has a registered account on the music platform and is on the Homepage.
<b>Post-condition</b>	The user successfully logs in and directs them to Homepage.

p.

#### q. 2.15 Use-Case: Upload songs

<b>Use-case name</b>	Upload Songs.
<b>Brief description</b>	This use case describes how a user can upload songs to the music platform.
<b>Actors</b>	User.
<b>Basic flow</b>	<b>Step 1:</b> User navigates to the <b>Upload</b> section of the music platform. <b>Step 2:</b> User selects the option to upload a new song. <b>Step 3:</b> The system prompts the user to provide details about the song, such as title, artist, genre, and upload the file. <b>Step 4:</b> User fills in the required details and uploads the song file. <b>Step 5:</b> The system processes the uploaded song and adds it to the platform's database. <b>Step 6:</b> The system confirms successful song upload to the user.
<b>Alternative flow</b>	<b>Alternative flow 1: Invalid song details or file format</b> <ol style="list-style-type: none"> <li>From #3 of the basic flow, if the user provides invalid details or an unsupported file format, the system notifies the user.</li> <li>User corrects the details or chooses a supported file format and continues from step #4.</li> </ol> <b>Alternative flow 2: Duplicate Song Upload</b> <ol style="list-style-type: none"> <li>From #5 of the basic flow, if the uploaded song is found to be a duplicate (already exists on the platform), the system notifies the user.</li> </ol>

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	<ol style="list-style-type: none"> <li>3. The system provides options for the user, such as updating the existing song details or canceling the upload.</li> <li>4. User chooses an appropriate action and continues or cancels the upload.</li> </ol>
<b>Pre-condition</b>	User is logged into the music platform and is on the Profile page.
<b>Post-condition</b>	The user successfully uploads a new song to the platform.

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