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| Use Case Name: | | | ID: S-1 | | Priority: High |
| Actor: User | | | | | |
| Description: When a user wants to search for a song or any singer, they will enter the song name or singer name in the search box and then press the search button. The system will display all results with the keyword they entered. | | | | | |
| Trigger: user press the search button  Type: 🗹External  Temporal | | | | | |
| Preconditions:  1. The user needs to enter the keyword that the user wants to search in the text box  2. User must press the search button  3. System is always online  4. Song or singer must be in the database | | | | | |
| Normal Course:  1.0 Request a music  1. The system receives information from the user in the text box  2. The system takes the key provided by the user in the text box, then searches the database  3. Send the found information to the search interface | | | | Information for Steps:  Music name or singer name  Press search button    Display result | |
| Postconditions: Non | | | | | |
| Exceptions:  1. The system displays the message "No results found for the keyword"  2. Show suggestions related to keywords | | | | | |
| Summary Inputs | Source | Outputs | | | Destination |
| Music name or singer name  Press search button | User  Database system of Tune Source | Display result | | | Interface to display search results |

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| Use Case Name: Download music | | | ID: F07 | | Priority: high |
| Actor: User | | | | | |
| Description: When user clicks Download button on music that user choose to download, system will select the music in DB and send it to user device. | | | | | |
| Trigger: Download button  Type:  External  Temporal | | | | | |
| Preconditions:  1.     User must click select the song and, press the download button  2.     System is always online  3.     Song or singer must be in the database | | | | | |
| Normal Course:  1. The system takes the key provided by the user when the user clicks to select a song, then selects it in the database.  2. Select the music in DB and send it to user device. | | | | Information for Step:  Key ID of the song  Send the music to user device | |
| Summary Inputs | Source | Outputs | | | Destination |
| Music ID  Download button | User  Database | Send music to user device | | |  |

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| Use Case Name: Listen to music | | | ID: F03 | | Priority: high |
| Actor: User | | | | | |
| Description: This is the main function of the project. When the user clicks on a song, the system will select it in the database after displaying the song on the interface and playing that song. | | | | | |
| Trigger:  Type: ☐ External ☐ Temporal | | | | | |
| Preconditions:  1.     User must click select the song and, press the play button  2.     System is always online  3.     Song or singer must be in the database | | | | | |
| Normal Course:  1.     The system takes the key provided by the user when the user clicks to select a song, then selects it in the database.  2.     Display the song on the interface and play it. | | | | Information for Step:  Key ID of the song  Display and play the song | |
| Alternative Course: | | | |  | |
| Postconditions: none | | | | | |
| Exceptions: | | | | | |
| Summary Inputs | Source | Outputs | | | Destination |
| - Music ID  - Press play button | User  Database system of Tune Source | - Display on interface  - Play music | | | Interface to display and play music |

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| Use Case Name: | | | ID: | | Priority: |
| Actor: | | | | | |
| Description: | | | | | |
| Trigger:  Type:  External  Temporal | | | | | |
| Preconditions: | | | | | |
| Normal Course: | | | | Information for Step: | |
| Alternative Course: | | | |  | |
| Postconditions: | | | | | |
| Exceptions: | | | | | |
| Summary Inputs | Source | Outputs | | | Destination |
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| Use Case Name: Download song | | | ID: D02 | | Priority: high |
| Actor: User | | | | | |
| Description: When a user wants to download a certain song, they select the song they want and press the download button. The system will send the song to the user device after receiving the request. | | | | | |
| Trigger: Download button  Type: 🗹 External 🞎 Temporal | | | | | |
| Preconditions:   1. The user must select the song and press download button. 2. The system is always online. 3. Song and singer must be in database. | | | | | |
| Normal Course:   1. The system receives the song ID when the user selects the song, and then receives the download request when the user presses download. 2. Select the song with the selected id and send it to the user's device. | | | | Information for Step:  ID of the song  Send the song to user’s device | |
| Alternative Course: | | | |  | |
| Postconditions: None | | | | | |
| Exceptions: | | | | | |
| Summary Inputs | Source | Outputs | | | Destination |
| * Song ID * Download button | * User * Database | * Send the song to user’s device | | | * Download detail |

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| Use Case Name: Login | | | ID: D01 | | Priority: high |
| Actor: User | | | | | |
| Description: Allow users to log into the system if they already have an account and ask users to register for an account if they don't have one. | | | | | |
| Trigger: Login button  Type: 🗹 External 🞎 Temporal | | | | | |
| Preconditions:   1. The user must enter username and password and press login button. 2. The system is always online. 3. Account must be registered first. | | | | | |
| Normal Course:   1. Check if the username and password exist in the system. 2. Allow users to log into the system. | | | | Information for Step:  Check username and password  Allow to login | |
| Alternative Course: | | | |  | |
| Postconditions: The system will allow users to successfully login to the system if the login information is correct. The system will be displayed error message if the user is logged in to the incorrect account. | | | | | |
| Exceptions: | | | | | |
| Summary Inputs | Source | Outputs | | | Destination |
| * Username * Password * Login button | * User * Database | * Login successful | | | * Login to the system |