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| **Use Case ID:** | UC-01 |
| **Use Case Name:** | Create Accounts |
| **Description:** | Users can create an account. |

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| **Actors:** | Users | | |
| **Pre-conditions:** | No preconditions to create an account. | | |
| **Post-conditions:** | Users have an account which will allow them to use the service. | | |
| **Frequency of Use:** | Once per user. | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | Select Create Account from the menu | System prompts the user for a username, password, and email address |
| 2 | User enters username, password, and email address | System sends a confirmation email to the email address provided. |
|  |  | System responds with prompt indicating success and displays the main menu |
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| **Variations:** |  | | |
| **Exceptions:** | 2. Error message: Username not available | | |
|  | 2. Error message: Invalid username | | |
|  | 2. Error message: Invalid password | | |
|  | 2. Error message: Invalid email address | | |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-02 |
| Use Case Name: | Create Playlist |
| **Description:** | Users can edit accounts with the service |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account | | |
| **Post-conditions:** | Playlist created and associated with User | | |
| **Frequency of Use:** | Once per playlist. | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | Select Create Playlist | System displays Create Playlist Menu |
| 2 | User enters playlist Name | System responds with menu and new playlist name displayed |
|  |  | System creates playlist and associates it with User |
| 3 | User exits Create Playlist | System responds with display of main menu |
|  |  |  | System displays new playlist in playlist list |
| **Variations:** | 2 | User enters optional Description | System associates description with playlist and displays the playlist with the new description. |
| **Exceptions:** |  | | |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-03 |
| **Use Case Name:** | Search |
| **Description:** | Users can search database for song title, album title, artist, and playlist name. |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account. | | |
| **Post-conditions:** | Users have songs, albums, artists, and playlists listed who match search terms. | | |
| **Frequency of Use:** | As frequently as desired. | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | User enters search term in the search window | System searches the music database for song titles, album titles, and artists matching the search term. |
|  |  | System searches the playlist database for the names matching the search term. |
|  |  | System displays the songs, albums, and artists matching the search term. |
|  |  | System displays albums, artists, and playlists as links that can be selected. |
| **Variations:** | 2 | User selects a link for the album, playlists, or artist. | System displays the songs for the link selected. |
| **Exceptions:** | 1 |  | No matching terms were found and system responds with “None found”. |
|  | 3 |  | No playlists for the selected streaming service were found. |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-04 |
| **Use Case Name:** | Add Playlist Content |
| **Description:** | Users can add content to a playlist. |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account.  Users have searched for content in the system (see UC-03) | | |
| **Post-conditions:** | User has added a song or album to the playlist. | | |
| **Frequency of Use:** | As frequently as desired. | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | User selects the search term results for a song. | System displays available playlists. |
| 2 | User selects playlist to add song. | System displays playlist with new song added. |
| **Variations:**  **(Artist)** | 1a | User selects the search term results for an artist. | System displays artists albums |
| (artist) |  |  | System displays the artists songs |
| (artist) | 2a1 | User selects Add Album | System prompts the user to select which playlist to add the album |
| (artist) | 3a1 | User selects playlist | System adds the songs from the album to the selected playlist |
| (artist) |  |  | System displays the updated playlist |
| (artist) | 2a2 | User selects Add Song | System prompts the user to select which playlist to add the song |
| (artist) | 3a2 | User selects playlist | System adds the selected song from the album to the selected playlist |
| (artist) |  |  | System displays the updated playlist |
| (album) | 1b | User selects the search term results for an album | System displays the songs from the album |
| (album) | 2b1 | User selects Add Album | System prompts the user to select which playlist to add the album |
| (album) | 3b1 | User selects playlist | System adds the songs from the album to the selected playlist |
| (album) |  |  | System displays the updated playlist |
| (album) | 2b2 | User selects the playlist to add the song. | System prompts the user to select which playlist to add the song |
| (album) | 3b2 | User selects playlist | System adds the selected song from the album to the selected playlist |
| (album) |  |  | System displays the updated playlist |
| **Exceptions:** |  |  |  |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-05 |
| **Use Case Name:** | Make Playlist Collaborative |
| **Description:** | Users can choose to make playlist collaborative so others can also edit it. |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account.  Users have a least one playlist created. | | |
| **Post-conditions:** | Playlist can now be searched and edited by other users. | | |
| **Frequency of Use:** | Once per playlist | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | User selects “Make Collaborative” | System marks the playlist as editable by others and displays status “Playlist is Editable by Others” |
|  |  | System marks the playlist as searchable by other users. |
| **Variations:** | 1 | User can deselect the “Make Collaborative” flag |  |
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| **Exceptions:** |  |  |  |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-06 |
| **Use Case Name:** | Share Playlist |
| **Description:** | Users can create a hyperlink to a playlist to share |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account.  Users have a least one playlist created. | | |
| **Post-conditions:** | A unique hyperlink is created and the playlist is searchable. | | |
| **Frequency of Use:** | Once per playlist | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | User selects Share Playlist | System responds with hyperlink |
|  |  | System marks the playlist as searchable by other users. |
| **Variations:** |  |  |  |
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| **Exceptions:** |  |  |  |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-07 |
| **Use Case Name:** | Follow Playlist |
| **Description:** | Users can follow another user’s playlist and in so doing, the playlist shows in their list of playlists. |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account.  Other users have had to make the playlists “shareable”. | | |
| **Post-conditions:** | Users now have another user’s playlist show up in their list of playlists. | | |
| **Frequency of Use:** | Daily | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | On viewing other playlists, user selects “Follow” | System marks a link for the playlist for the current user. |
|  |  | System displays the new playlist in the list of playlists for the user. |
| **Variations:** |  |  |  |
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| **Exceptions:** |  |  |  |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-08 |
| **Use Case Name:** | Export to Spotify |
| **Description:** | Users can export their Spotify playlists to Spotify. |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account.  Users have a Spotify account.  Playlist has content IDs for Spotify. | | |
| **Post-conditions:** | Playlist is exported to Spotify. | | |
| **Frequency of Use:** | Daily | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | User selects “Export to Spotify” | Playlist is exported to Spotify. |
|  |  | System displays “Export Successful” if the operation succeeded. |
| **Variations:** |  |  |  |
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| **Exceptions:** |  |  | System displays “Export Failed” if the operation fails. |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-09 |
| **Use Case Name:** | Export to Google Play |
| **Description:** | Users can export their Google Play playlists to Google Play. |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account.  Users have a Spotifiy account.  Playlist has content IDs for Google Play. | | |
| **Post-conditions:** | Playlist is exported to Google Play. | | |
| **Frequency of Use:** | Daily | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | User selects “Export to Google Play” | Playlist is exported to Google Play. |
|  |  | System displays “Export Successful” if the operation succeeded. |
| **Variations:** |  |  |  |
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| **Exceptions:** |  |  | System displays “Export Failed” if the operation fails. |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-10 |
| **Use Case Name:** | Export to Tidal |
| **Description:** | Users can export their Tidal playlists to Tidal. |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account.  Users have a Tidal account.  Playlist has content IDs for Tidal. | | |
| **Post-conditions:** | Playlist is exported to Tidal. | | |
| **Frequency of Use:** | Daily | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | User selects “Export to Tidal” | Playlist is exported to Tidal. |
|  |  | System displays “Export Successful” if the operation succeeded. |
| **Variations:** |  |  |  |
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| **Exceptions:** |  |  | System displays “Export Failed” if the operation fails. |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-11 |
| **Use Case Name:** | Register with Spotify |
| **Description:** | Users can register service with Spotify |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account.  Users have a Spotify account. | | |
| **Post-conditions:** | Service is registered with Spotify. | | |
| **Frequency of Use:** | Daily | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | User selects “Register with Spotify” | Opens dialog to enter Spotify credentials. |
| 2 | User enters Spotify credentials. | System displays “Registered with Spotify” if the operation succeeded. |
| **Variations:** |  |  |  |
|  |  |  |  |
| **Exceptions:** | 2 |  | System displays “Register Failed” if the operation fails. |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-12 |
| **Use Case Name:** | Register with Google Play |
| **Description:** | Users can register service with Google Play |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account.  Users have a Google Play account. | | |
| **Post-conditions:** | Service is registered with Google Play. | | |
| **Frequency of Use:** | Daily | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | User selects “Register with Google Play” | Opens dialog to enter Google Play credentials. |
| 2 | User enters Google Play credentials. | System displays “Registered with Google Play” if the operation succeeded. |
| **Variations:** |  |  |  |
|  |  |  |  |
| **Exceptions:** | 2 |  | System displays “Register Failed” if the operation fails. |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-13 |
| **Use Case Name:** | Register with Tidal |
| **Description:** | Users can register service with Tidal |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account.  Users have a Tidal account. | | |
| **Post-conditions:** | Service is registered with Tidal. | | |
| **Frequency of Use:** | Daily | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | User selects “Register with Tidal” | Opens dialog to enter Tidal credentials. |
| 2 | User enters Tidal credentials. | System displays “Registered with Tidal” if the operation succeeded. |
| **Variations:** |  |  |  |
|  |  |  |  |
| **Exceptions:** | 2 |  | System displays “Register Failed” if the operation fails. |
| **Developer Notes:** |  | | |

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| **Use Case ID:** | UC-1 |
| **Use Case Name:** | Delete Songs |
| **Description:** | Users can delete songs from playlists |

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| **Actors:** | Users | | |
| **Pre-conditions:** | Users have an account.  At least one playlist with songs. | | |
| **Post-conditions:** | Song is deleted from playlist | | |
| **Frequency of Use:** | As frequently as desired. | | |
| **Flow of Events:** |  | **Actor Action** | **System Response** |
| 1 | User selects playlist | Playlist is displayed with a delete option for each song |
| 2 | User selects delete option for song. | System deletes the song from the playlist and displays the playlist. |
| **Variations:** |  |  |  |
|  |  |  |  |
| **Exceptions:** |  |  |  |
| **Developer Notes:** |  | | |