

# **Use Cases**

**for**

# **Musician Finder**

**Version 3.0**

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# **1. Guidance for Use Case Template**

Document each use case using the template shown in the Appendix. This section provides a description of each section in the use case template.

## **2. Use Case Identification**

### **1.1. Use Case ID**

Give each use case a unique integer sequence number identifier. Alternatively, use a hierarchical form: X.Y. Related use cases can be grouped in the hierarchy.

### **1.2. Use Case Name**

State a concise, results-oriented name for the use case. These reflect the tasks the user needs to be able to accomplish using the system. Include an action verb and a noun. Some examples:

- View part number information.
- Manually mark hypertext source and establish link to target.
- Place an order for a CD with the updated software version.

### **1.3. Use Case History**

#### **1.1.1. Created By**

Supply the name of the person who initially documented this use case.

#### **1.1.2. Date Created**

Enter the date on which the use case was initially documented.

#### **1.1.3. Last Updated By**

Supply the name of the person who performed the most recent update to the use case description.

#### **1.1.4. Date Last Updated**

Enter the date on which the use case was most recently updated.

## **3. Use Case Definition**

### **1.1. Actors**

An actor is a person or other entity external to the software system being specified who interacts with the system and performs use cases to accomplish tasks. Different actors often correspond to different user classes, or roles, identified from the customer community that will use the product. Name the actor that will be initiating this use case and any other actors who will participate in completing the use case.

### **1.2. Trigger**

Identify the event that initiates the use case. This could be an external business event or system event that causes the use case to begin, or it could be the first step in the normal flow.

### 1.3. Description

Provide a brief description of the reason for and outcome of this use case, or a high-level description of the sequence of actions and the outcome of executing the use case.

### 1.4. Preconditions

List any activities that must take place, or any conditions that must be true, before the use case can be started. Number each precondition. Examples:

1. User's identity has been authenticated.
2. User's computer has sufficient free memory available to launch task.

### 1.5. Postconditions

Describe the state of the system at the conclusion of the use case execution. Number each postcondition. Examples:

1. Document contains only valid SGML tags.
2. Price of item in database has been updated with new value.

### 1.6. Normal Flow

Provide a detailed description of the user actions and system responses that will take place during execution of the use case under normal, expected conditions. This dialog sequence will ultimately lead to accomplishing the goal stated in the use case name and description. This description may be written as an answer to the hypothetical question, "How do I <accomplish the task stated in the use case name>?" This is best done as a numbered list of actions performed by the actor, alternating with responses provided by the system. The normal flow is numbered "X.0", where "X" is the Use Case ID.

### 1.7. Alternative Flows

Document other, legitimate usage scenarios that can take place within this use case separately in this section. State the alternative flow, and describe any differences in the sequence of steps that take place. Number each alternative flow in the form "X.Y", where "X" is the Use Case ID and Y is a sequence number for the alternative flow. For example, "5.3" would indicate the third alternative flow for use case number 5.

### 1.8. Exceptions

Describe any anticipated error conditions that could occur during execution of the use case, and define how the system is to respond to those conditions. Also, describe how the system is to respond if the use case execution fails for some unanticipated reason. If the use case results in a durable state change in a database or the outside world, state whether the change is rolled back, completed correctly, partially completed with a known state, or left in an undetermined state as a result of the exception. Number each alternative flow in the form "X.Y.E.Z", where "X" is the Use Case ID, Y indicates the normal (0) or alternative (>0) flow during which this exception could take place, "E" indicates an exception, and "Z" is a sequence number for the exceptions. For example "5.0.E.2" would indicate the second exception for the normal flow for use case number 5.

### 1.9. Includes

List any other use cases that are included ("called") by this use case. Common functionality that appears in multiple use cases can be split out into a separate use case that is included by the ones that need that common functionality.

## **1.10. Priority**

Indicate the relative priority of implementing the functionality required to allow this use case to be executed. The priority scheme used must be the same as that used in the software requirements specification.

## **1.11. Frequency of Use**

Estimate the number of times this use case will be performed by the actors per some appropriate unit of time.

## **1.12. Business Rules**

List any business rules that influence this use case.

## **1.13. Special Requirements**

Identify any additional requirements, such as nonfunctional requirements, for the use case that may need to be addressed during design or implementation. These may include performance requirements or other quality attributes.

## **1.14. Assumptions**

List any assumptions that were made in the analysis that led to accepting this use case into the product description and writing the use case description.

## **1.15. Notes and Issues**

List any additional comments about this use case or any remaining open issues or TBDs (To Be Determineds) that must be resolved. Identify who will resolve each issue, the due date, and what the resolution ultimately is.

## Use Case List

<b><i>ID</i></b>	<b><i>Primary Actor</i></b>	<b><i>Use Case Title</i></b>
1	Website Visitor	Search for a musician by name
2	Website Visitor	Search for similar artists
3	Website Visitor	Read a blog post
4	Website Visitor	Find reviews about a musician

## Use Case Template

Use Case ID:	1		
Use Case Name:	Search for a musician by name		
Created By:	Luke Rosenfeld	Last Updated By:	Erica Wivagg
Date Created:	2/17/16	Date Last Updated:	3/23/16

Actors:	Website Visitor
Description:	Find information about a desired musician
Trigger:	User enters an artist's name into a search box
Preconditions:	User must be logged in to the website
Postconditions:	Show popular tracks, biography, and basic information about the artist
Normal Flow:	1.0: Actor enters an artist's name into a search box 1.1: Actor clicks "search" 1.2: Actor reads about artist information 1.3: Actor plays popular song by the artist
Alternative Flows:	None – this use case has one functionality
Exceptions:	1.0.E.0: Artist not found 1.0.E.1: Display an "artist not found" page with the option to go back or log out
Includes:	Use case 2: Search for and play a song by this musician Use case 3: Read a blog post about this musician Use case 4: Find reviews about this musician
Priority:	High-level
Frequency of Use:	10 times per login
Business Rules:	Artist must have data on Spotify and user must have a Spotify account
Special Requirements:	Response time of search request must be brief

Assumptions:	User has a registered account with the website
Notes and Issues:	Format of web page needs to be determined

Use Case ID:	2		
Use Case Name:	Search for similar artists		
Created By:	Erica Wivagg	Last Updated By:	Erica Wivagg
Date Created:	3/23/16	Date Last Updated:	4/26/16

Actors:	Website Visitor
Description:	Find similar artists to the artist searched for
Trigger:	User clicks the similar artists button
Preconditions:	User must be logged in to the website
Postconditions:	Show the list of similar artists
Normal Flow:	1.0: Actor enters artist name into a search box 1.1: Actor clicks "search" 1.2: Actor clicks "Similar Artists" 1.3: Actor views list of similar artists
Alternative Flows:	None – this use case has one functionality
Exceptions:	1.0.E.0: Similar Artists not found 1.0.E.1: Display a "song not found" page with the option to go back or log out
Includes:	None – this is an independent functionality
Priority:	High-level
Frequency of Use:	10 times per login
Business Rules:	Searched artist must have data on Spotify and user must have a Spotify account
Special Requirements:	Response time of search request must be brief
Assumptions:	User has a registered account with the website
Notes and Issues:	Format of web page needs to be determined

Use Case ID:	3		
Use Case Name:	Read a blog post		
Created By:	Erica Wivagg	Last Updated By:	Erica Wivagg
Date Created:	3/23/16	Date Last Updated:	3/23/16

Actors:	Website Visitor
Description:	Find and display blog posts about a desired musician
Trigger:	User clicks on “blog posts” from an artist information page
Preconditions:	User must be logged in to the website
Postconditions:	Show blog posts about the searched musician
Normal Flow:	1.0: Actor enters an artist’s name into a search box 1.1: Actor clicks “search” 1.2: Actor reads about artist information 1.3: Actor clicks on “blog posts” button 1.4: Actor views blog posts about artist
Alternative Flows:	None – this use case has one functionality
Exceptions:	1.0.E.0: Artist not found 1.0.E.1: Display an “artist not found” page with the option to go back or log out 1.1.E.0: No blog posts found for artist 1.1.E.1: Display a “no blog posts found” page with the option to go back or log out
Includes:	None – this is an independent functionality
Priority:	High-level
Frequency of Use:	Once per musician searched
Business Rules:	Artist must have data on Spotify and blog posts about him/her accessible by Echonest; and user must have a Spotify account



Special Requirements:	Response time of search request must be brief
Assumptions:	User has a registered account with the website
Notes and Issues:	Format of web page needs to be determined

Use Case ID:	4		
Use Case Name:	Find reviews about a musician		
Created By:	Erica Wivagg	Last Updated By:	Erica Wivagg
Date Created:	3/23/16	Date Last Updated:	3/23/16

Actors:	Website Visitor
Description:	Find reviews about a desired musician
Trigger:	User clicks on “get reviews” from artist information page
Preconditions:	User must be logged in to the website
Postconditions:	Show reviews about a musician from the Echonest API
Normal Flow:	1.0: Actor enters an artist’s name into a search box 1.1: Actor clicks “search” 1.2: Actor reads about artist information 1.3: Actor clicks “get reviews” 1.4: Actor reads about artist reviews
Alternative Flows:	None – this use case has one functionality
Exceptions:	1.0.E.0: Artist not found 1.0.E.1: Display an “artist not found” page with the option to go back or log out 1.1.E.0: No reviews found for artist 1.1.E.1: Display a “no reviews found” page with the option to go back or log out
Includes:	None – this is an independent functionality
Priority:	High-level

Frequency of Use:	Once per musician searched
Business Rules:	Artist must have data on Spotify and reviews on Echonest; and user must have a Spotify account
Special Requirements:	Response time of search request must be brief
Assumptions:	User has a registered account with the website
Notes and Issues:	Format of web page needs to be determined

## Revision History

Name	Date	Reason For Changes	Version
Luke Rosenfeld	2/17/16	Initial version	1.0
Erica Wivagg	3/23/16	Create second, third, and fourth use cases and update first use case	2.0
Erica Wivagg	4/26/16	Update second use case to reflect new ideas about what the website should do	3.0