Use Cases

for

<RATE MY \_\_>

**Version <1>**

**Prepared by <author>**

**<organization>**

**<2/17/16>**

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.

1. **Use Case Identification**

## 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.

## 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.

## Use Case History

### Created By

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

### Date Created

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

### Last Updated By

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

### Date Last Updated

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

1. **Use Case Definition**

## 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.

## 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.

## 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.

## 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.

## 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.

## 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.

## 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.

## 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.

## 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.

## 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.

## Frequency of Use

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

## Business Rules

List any business rules that influence this use case.

## 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.

## 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.

## 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

|  |  |  |
| --- | --- | --- |
| ***ID*** | ***Primary Actor*** | ***Use Case Title*** |
| UC1 | Visitor/User | Authentication |
| UC2 | Visitor/User | Add posts |
| UC3 | Visitor/User | Rating |
| UC4 | Visitor/User | Search |

Use Case Template

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | UC1 | | |
| Use Case Name: | Authentication | | |
| Created By: | Weihao Zhao(Andy) | Last Updated By: | Weihao Zhao |
| Date Created: | 02/17/2016 | Date Last Updated: | 02/17/2016 |

|  |  |
| --- | --- |
| Actors: | Users |
| Description: | Allows users to login their own account and initiate their own preferences. Then users are authenticated to add//edit/rate posts. |
| Trigger: | Login button |
| Preconditions: | User has to have a registered account. |
| Postconditions: | User’s identity set to authenticated. |
| Normal Flow: | UC1.0: Users click on the login option.  UC1.1: Users enter their username and password on the two text box shown.  UC1.2: Users click the login button. |
| Alternative Flows: | UC1.1: Users were not logged in and tries to edit/add/rate any posts, then they are redirected to the login page.  UC1.2: Enter the login information.  UC1.3: Click the login button. |
| Exceptions: | UC1.0.E.0: User is already logged in. Pop out message stating the user is already logged in and asks if they would like to log out.  UC1.1.E.2: User entered wrong password/username. State that the username or password is incorrect and asks user to re-enter or register. |
| Includes: | N/A |
| Priority: | Mandatory |
| Frequency of Use: | Once per use of the website by an user. |
| Business Rules: | N/A |
| Special Requirements: | N/A |
| Assumptions: | User has to log in to add/edit/rate posts on this website. |
| Notes and Issues: | N/A |

Use Case Template

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | UC2 | | |
| Use Case Name: | Add posts | | |
| Created By: | Heqian Liu | Last Updated By: | Heqian Liu |
| Date Created: | 02/17/2016 | Date Last Updated: | 02/17/2016 |

|  |  |
| --- | --- |
| Actors: | User |
| Description: | Add post allows users to create new posts on the website. Users need to add title, descriptions, tags for their posts. |
| Trigger: | The use case is triggered when user press the ‘Create Post’ button. |
| Preconditions: | 1. User has logged in.  2. User’s account has not been banned. |
| Postconditions: | The new post information is saved into the databases. Other users are available to see and search this post on the website. |
| Normal Flow: | UC2.0 User presses the create post when they want to add a new post.  UC2.1 User sees several blanks where users are allowed to type in their title, description, tags and upload files.  UC2.2 User fills in each blank and upload files by clicking the add files button.  UC2.3 User presses the Complete button when they have finished creating this post. |
| Alternative Flows: | UC2.0.1 If the user has not logged in, the user will be leads to the authentication use case, and then come back after authentication use case. |
| Exceptions: | UC2.2.E.1 If user upload any files bigger than requirement or in wrong type, user will be prompted to upload again.  UC2.3.E.1 If user leaves the title and tags empty, the user will be prompted to add a title and at least one tag.  UC2.3.E.2 If user has entered a description less than 5 words, the user will be prompted to add at least 5 words description to their post. |
| Includes: | Authentication |
| Priority: | Mandatory |
| Frequency of Use: | 2/day |
| Business Rules: | N/A |
| Special Requirements: | N/A |
| Assumptions: | Adding a post is a mandatory function of the website, so it must be implemented to make the website work. |
| Notes and Issues: | N/A |

Use Case Template

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | UC3 | | |
| Use Case Name: | Rating | | |
| Created By: | Scarleth Estevez | Last Updated By: | Scarleth Estevez |
| Date Created: | 2/17/16 | Date Last Updated: | 2/17/16 |

|  |  |
| --- | --- |
| Actors: | User |
| Description: | rating system of users’ post |
| Trigger: | when the user rates a post |
| Preconditions: | 1. a post is created to rate 2. user is logged in |
| Postconditions: | 1. rate system is updated for the post(# of upvotes and # downvotes) 2. User gets a notification |
| Normal Flow: | UC3.0 User1 created a post  UC3.1 User2 is on User1’s post  UC3.2 User2 chooses either upvote or downvote  UC3.3 # of upvotes/# of downvotes are updated  UC3.4 User1 gets a notification that post has been rated |
| Alternative Flows: | UC3.1 User2 is not logged in  UC3.2 User2 tries to rate a post  UC3.3 User2 is prompted to login  UC3.4 User2 then can rate post(choosing either upvote or downvote)  UC3.5 # of upvotes/# of downvotes are updated  UC3.6 User1 gets a notification that post has been rated |
| Exceptions: | UC3.3.E.0 User2 has already voted and attempts to vote again is banned.  UC3.3.E.1 User 2 is not prompted to login and can not rate  UC3.3.E.2 the upvotes/downvotes are not updated when User2 rates |
| Includes: | Authentication |
| Priority: | Mandatory |
| Frequency of Use: | 5/Day |
| Business Rules: | N/A |
| Special Requirements: | Easy to use UI |
| Assumptions: | Authentication, Add Post |
| Notes and Issues: | N/A |

Use Case Template

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | UC4 | | |
| Use Case Name: | Search | | |
| Created By: | Ben Pusey | Last Updated By: | Ben Pusey |
| Date Created: | 02/17/2016 | Date Last Updated: | 02/17/2016 |

|  |  |
| --- | --- |
| Actors: | User/Visitors of the site |
| Description: | Users/Visitor can search via tags for posts |
| Trigger: | User/Visitor hits the search button |
| Preconditions: | Tags have been entered into the search box |
| Postconditions: | Query returns results |
| Normal Flow: | UC4.0 User/Visitor enters tag searches  UC4.1 User hits search  UC4.2 Page is populated with search results |
| Alternative Flows: | N/A |
| Exceptions: | X.4.E.0 Search box is empty |
| Includes: | N/A |
| Priority: | Mandatory |
| Frequency of Use: | 2 times/5 minutes |
| Business Rules: | N/A |
| Special Requirements: | Loading of tags to populate search box should be quick. I.E tags should be cached. |
| Assumptions: | N/A |
| Notes and Issues: | N/A |

Use Case Template

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | UC5 | | |
| Use Case Name: | User Account | | |
| Created By: |  | Last Updated By: |  |
| Date Created: |  | Date Last Updated: |  |

|  |  |
| --- | --- |
| Actors: |  |
| Description: |  |
| Trigger: |  |
| Preconditions: |  |
| Postconditions: |  |
| Normal Flow: |  |
| Alternative Flows: |  |
| Exceptions: |  |
| Includes: |  |
| Priority: |  |
| Frequency of Use: |  |
| Business Rules: |  |
| Special Requirements: |  |
| Assumptions: |  |
| Notes and Issues: |  |

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
|  |  |  |  |
|  |  |  |  |