Use Cases

for

World News

**Version 1.0**

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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.

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 Determined) 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*** |
| 1 | User | Look at world events |
| 2 | User | Look at news of a specific region/country |
| 3 | User | Look at news of a specific topic |
| 4 | User | Filter news by date |
| 5 | User | “Star” an article |
| 6 | User | Create tags for news |
| 7 | User | List the most popular tags of the day |
| 8 | User | Logs in |

Use Case 1

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 1 | | |
| Use Case Name: | Look at world events | | |
| Created By: | Juyuan Ding | Last Updated By: | Juyuan Ding |
| Date Created: | 11.01.2016 | Date Last Updated: | 11.01.2016 |

|  |  |
| --- | --- |
| Actors: | User |
| Description: | When user enters web app, he will be able to zoom and pan an interactive world map with pins displaying articles in the relative location. User can then expand the pin to see the article. |
| Trigger: | User enters the website |
| Preconditions: | User has logged in.  User has been authenticated.  User has a stable internet connection.  User has system reqs to run webapp. |
| Postconditions: | User enter the website and see articles |
| Normal Flow: | 1.0 - User enters website  1.2 - User expands pin(s) to see article(s) |
| Alternative Flows: |  |
| Exceptions: |  |
| Includes: | 5. Star an article  6. Create tags for an article |
| Priority: | High priority |
| Frequency of Use: | Whenever the user enters the website |
| Business Rules: |  |
| Special Requirements: |  |
| Assumptions: |  |
| Notes and Issues: |  |

Use Case 2

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 2 | | |
| Use Case Name: | Look at news of a specific region/country | | |
| Created By: | Kishan Patel | Last Updated By: | Kishan Patel |
| Date Created: | 10.04.2016 | Date Last Updated: | 10.04.2016 |

|  |  |
| --- | --- |
| Actors: | User |
| Description: | The website user wants to look at news of a specific country/region. By exploring the site he/she will see an interactive world map of news posts. |
| Trigger: | User goes to website, clicks specific region of world map |
| Preconditions: | User has logged in.  User has been authenticated.  User has a stable internet connection.  User has system reqs to run webapp. |
| Postconditions: | User views pins of specific region/country.  (optional) User expands pin to see article. |
| Normal Flow: | 2.0 - User enters website  2.1 - User zooms and pans to region of interest  2.2 - User expands pin(s) to see article(s) |
| Alternative Flows: | 2.0 - User enters website  2.1 - Instead of zooming in, user can click on certain continent/country eg. North America  2.2 - User expands pins to see articles |
| Exceptions: | 2.0.E.0 There is no article to show on a specific region |
| Includes: | 5. Star an article  6. Create tags for an article |
| Priority: | High priority |
| Frequency of Use: | Estimate no more than once per minute |
| Business Rules: |  |
| Special Requirements: | Each story must be tagged with its appropriate region/country |
| Assumptions: |  |
| Notes and Issues: | Some news stories might apply to more than one region/country |

**Use Case 3**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 3 | | |
| Use Case Name: | Look at news of a specific topic | | |
| Created By: | Juyuan Ding | Last Updated By: | Juyuan Ding |
| Date Created: | 11.01.2016 | Date Last Updated: | 11.01.2016 |

|  |  |
| --- | --- |
| Actors: | Users |
| Description: | User can search for specific topic. Web app will look through data to find relative articles to user’s search. User can then select which article he/she wants to read. |
| Trigger: | Users go to website and use the search bar to search for a keyword |
| Preconditions: | User has logged in.  User has been authenticated.  User has a stable internet connection.  User has system reqs to run webapp. |
| Postconditions: | User enters the keyword in the search bar and click search button |
| Normal Flow: | 3.0 - User enters website  3.1 - User searches for a topic  3.2 - User expands pin(s) to see article(s) |
| Alternative Flows: |  |
| Exceptions: | 3.0.E.0 There is no article to show for a specific keyword |
| Includes: | 2. Look at news of a specific region/country  4. Filter news by date  5. Star an article  6. Create tags for an article |
| Priority: | Medium priority |
| Frequency of Use: | Every time the user wants to search a topic |
| Business Rules: |  |
| Special Requirements: |  |
| Assumptions: |  |
| Notes and Issues: |  |

Use Case 4

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 4 | | |
| Use Case Name: | Filter news by date: Today, past week, past month, between date1 and date2 | | |
| Created By: | Juyuan Ding | Last Updated By: | Juyuan Ding |
| Date Created: | 11.01.2016 | Date Last Updated: | 11.01.2016 |

|  |  |
| --- | --- |
| Actors: | User |
| Description: | User can filter news by date. Useful if a world event has occurred recently. Web app will only display pins according to filter placed by user. |
| Trigger: | User goes to website |
| Preconditions: | User has logged in.  User has been authenticated.  User has a stable internet connection.  User has system reqs to run webapp. |
| Postconditions: | User sets a filter |
| Normal Flow: | 4.0 - User enters website  4.1 - User applies a filter  4.2 - User expands pin(s) to see article(s) |
| Alternative Flows: | 4.0 - User enters website  4.1 - User search for a keyword and applies a filter  4.2 - User expands pins to see articles |
| Exceptions: | 4.0.E.0 There is no article to show for a filter |
| Includes: | 2. Look at news of a specific region/country  3. Look at news of a specific topic  5. Star an article  6. Create tags for an article |
| Priority: | Medium priority |
| Frequency of Use: | Every time the user wants to set a filter |
| Business Rules: |  |
| Special Requirements: | Each story must be tagged with date |
| Assumptions: |  |
| Notes and Issues: |  |

Use Case 5

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 5 | | |
| Use Case Name: | “Star” an article, either as a favorite or for later reading | | |
| Created By: | Juyuan Ding | Last Updated By: | Juyuan Ding |
| Date Created: | 11.01.2016 | Date Last Updated: | 11.01.2016 |

|  |  |
| --- | --- |
| Actors: | User |
| Description: | Each news story will have the option to be starred, adding it to the user’s personal list of starred stories and allowing the user to quickly re-access the story at any time.. |
| Trigger: | User goes to website and open an article |
| Preconditions: | User has logged in.  User has been authenticated.  User has a stable internet connection.  User has system reqs to run webapp. |
| Postconditions: | User stars an article to save to his/her folder |
| Normal Flow: | 5.0 - User enters website  5.1 - User expands pin(s) to see article(s)  5.2 - User “stars” an article to his/her folder |
| Alternative Flows: | 5.0 - User enters website  5.1 - User search for a keyword and/or applies a filter  5.2 - User expands pins to see articles  5.2 - User “stars” an article to his/her folder |
| Exceptions: | 5.0.E.0 the article is already starred |
| Includes: | 2. Look at news of a specific region/country  3. Look at news of a specific topic  4. Filter news by date  5. Star an article  6. Create tags for an article |
| Priority: | Medium priority |
| Frequency of Use: | Every time the user reads an article |
| Business Rules: |  |
| Special Requirements: | User has logged in |
| Assumptions: |  |
| Notes and Issues: |  |

Use Case 6

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 6 | | |
| Use Case Name: | Create tags for news | | |
| Created By: | Juyuan Ding | Last Updated By: | Juyuan Ding |
| Date Created: | 11.01.2016 | Date Last Updated: | 11.01.2016 |

|  |  |
| --- | --- |
| Actors: | User |
| Description: | User can add tags to news by commenting below the news, also by clicking on the tag, it will show the popular news with the tag on the map. |
| Trigger: | User goes to website and opens an article |
| Preconditions: | User has logged in.  User has been authenticated.  User has a stable internet connection.  User has system reqs to run webapp. |
| Postconditions: | Tags been created and shown down below the article |
| Normal Flow: | 6.0 - User enters website  6.1 - User expands pin(s) to see article(s)  6.2 - User create tags for the articles |
| Alternative Flows: | 6.0 - User enters website  6.1 - User clicks on a tag then the webapp search for all the articles has that tag and pin them on map  6.2 - User expands pins to see articles |
| Exceptions: | 6.0.E.0 the tag already exists |
| Includes: | 2. Look at news of a specific region/country  3. Look at news of a specific topic  4. Filter news by date  5. Star an article  6. Create tags for an article |
| Priority: | Medium priority |
| Frequency of Use: | Every time the user reads an article |
| Business Rules: |  |
| Special Requirements: | User has logged in |
| Assumptions: |  |
| Notes and Issues: |  |

Use Case 7

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 7 | | |
| Use Case Name: | List the most popular tags of the day | | |
| Created By: | Juyuan Ding | Last Updated By: | Juyuan Ding |
| Date Created: | 11.01.2016 | Date Last Updated: | 11.01.2016 |

|  |  |
| --- | --- |
| Actors: | User |
| Description: | List the top 10 tags of the day on the left/right of the webpage, by clicking on them, show the popular news with that tag. |
| Trigger: | User goes to website and open an article |
| Preconditions: | User has logged in.  User has been authenticated.  User has a stable internet connection.  User has system reqs to run webapp. |
| Postconditions: | List the popular tags to user |
| Normal Flow: | 7.0 - User enters website  7.1 - Show the popular tags |
| Alternative Flows: | 7.0 - User enters website  7.1 - Show the popular tags  7.2 - User clicks on a tag then the webapp search for all the articles has that tag and pin them on map  7.3 - User expands pins to see articles |
| Exceptions: |  |
| Includes: | 2. Look at news of a specific region/country  3. Look at news of a specific topic  4. Filter news by date  5. Star an article  6. Create tags for an article |
| Priority: | Low priority |
| Frequency of Use: | Every time the user enters the website |
| Business Rules: |  |
| Special Requirements: |  |
| Assumptions: |  |
| Notes and Issues: |  |

Use Case 8

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 8 | | |
| Use Case Name: | Logs in | | |
| Created By: | Kishan Patel | Last Updated By: | Kishan Patel |
| Date Created: | 11.01.2016 | Date Last Updated: | 11.01.2016 |

|  |  |
| --- | --- |
| Actors: | User |
| Description: | The user needs to log in to retrieve his preferences (e.g starred articles, articles saved to read later, etc.) |
| Trigger: | User loads website for first time. |
| Preconditions: | None |
| Postconditions: | Saved values to specific to user have been retrieved from database. |
| Normal Flow: | 8.0 - User enters website  8.1 - User enters credentials  8.2 - User retrieves saved and favorited articles |
| Alternative Flows: | 8.0 - User enters website  8.1 - User registers for an account  8.2 - User logs in  8.3 - User retrieves saved and favorited articles |
| Exceptions: | 8.0 - Invalid username or password |
| Includes: |  |
| Priority: | High priority |
| Frequency of Use: | Estimate no more than once per visit |
| Business Rules: |  |
| Special Requirements: | User must have registered for an account |
| Assumptions: |  |
| Notes and Issues: |  |

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Juyuan Ding | 11.01.2016 | Added 6 more use cases | 1.01 |
| Kishan Patel | 11.01.2016 | Added “User logs in” use case (8 total) | 1.02 |