Use Cases

for

<Project>

Version 1.0 approved

Prepared by <author>

<organization>

<date created>

Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
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## Use Case ID and Name

Give each use case a unique integer sequence number identifier. State a concise name for the use case that indicates the value the use case would provide to some user. Begin with an action verb, followed by an object.

## Author and Date Created

Enter the name of the person who initially wrote this use case and the date it was written.

## Primary and Secondary 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 primary actor that will be initiating this use case and any other secondary actors who will participate in completing execution of the use case.

## Trigger

Identify the business event, system event, or user action that initiates the use case. This trigger alerts the system that it should begin testing the preconditions for the use case so it can judge whether to proceed with execution.

## 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. The system must be able to test each precondition. Number each precondition. Example: PRE-1: User’s identity has been authenticated.

## Postconditions

Describe the state of the system at the successful conclusion of the use case execution. Label each postcondition in the form POST-X, where X is a sequence number. Example: POST-1: Price of item in the database has been updated with the new value.

## Normal Flow

Provide a description of the user actions and corresponding 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. Show 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 successful usage scenarios that can take place within this use case. 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. Indicate where each alternative flow would branch off from the normal flow, and if pertinent, where it would rejoin the normal flow.

## Exceptions

Describe any anticipated error conditions that could occur during execution of the use case and how the system is to respond to those conditions. Number each alternative flow in the form “X.Y.EZ”, 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.E2” would indicate the second exception for the normal flow for use case number 5. Indicate where in the normal (or an alternative) flow each exception could occur.

## Priority

Indicate the relative priority of implementing the functionality required to allow this use case to be executed. Use the same priority scheme as that used for the functional requirements.

## Frequency of Use

Estimate the number of times this use case will be performed per some appropriate unit of time. This gives an early indicator of throughput, concurrent usage loads, and transaction capacity.

## Business Rules

List any business rules that influence this use case. Don’t include the business rule text here, just its identifier so the reader can find it in another repository when needed.

## Other Information

Identify any additional requirements, such as quality attributes, for the use case that may need to be addressed during design or implementation. Also list any associated functional requirements that aren’t a direct part of the use case flows but which a developer needs to know about. Describe what should happen if the use case execution fails for some unanticipated or systemic reason (e.g., loss of network connectivity, timeout). 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.

## Assumptions

List any assumptions that were made regarding this use case or how it might execute.

Use Case List

Use Case Template

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | Create new destination | | |
| Created By: | Nhan | Date Created: | 2 June 2014 |
| Primary Actor: | Registered User | Secondary Actors: | Footprints System |
| Trigger: | Registered user indicates that he wants to share a destination he has arrived | | |
| Description: | A register user accesses to the Footprints System and create a new post to give the location information, description text and images of a destination. | | |
| Preconditions: | 1. PRE-1. User is logged into Footprints. 2. PRE-2. User picks a journey. 3. PRE-3. User asks to add a new destination to the journey. | | |
| Postconditions: | 1. POST-1. Personal page of the user is appended with the new post of the destination. 2. POST-2. Main page of the user and the follower is appended with the new post of the destination. 3. POST-3. User’s gallery is updated with new images attached to destination. 4. POST-4. Journey detail page is appended with the new post of the destination. | | |
| Normal Flow: | 1. **1.0 Create a destination with full content** 2. User click on “Add a destination” button. 3. Footprints displays a form containing a text area, a map, and a file attachment control. 4. User picks a location on the map canvas in the form.(See 1.2) 5. User give description in the “Description” text area.(See 1.1) 6. User attaches some images. 7. User submits the post. 8. Footprints processes the picture to gain thumbnails 9. Footprints upload original pictures and thumbnails to cloud and return URLs of the pictures and the thumbnails. 10. Footprints stores the information of the destination and the URLs to Database. 11. Footprints displays new destination in pages | | |
| Alternative Flows: | * 1. **Create a destination without Images.**  1. Return to step 6 of normal flow.   1.2 **Create a destination without Description and Images.**  1. Return to step 6 of normal flow.  1.3 **Create a destination without Description.**  1. Return to step 5 of normal flow. | | |
| Exception | 1.0, 1.1, 1.2, 1.3 E1 – Cannot communicate with the system server.  1. Display a message “Fail to create destination. Please try again later”.  2. Reserved the information in the form. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | B10, B11 | | |
| Other Information: | None | | |
| Assumptions: | None | | |

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| --- | --- | --- | --- |
| UC ID and Name: | Edit Destination | | |
| Created By: | Nhan | Date Created: | 2 June 2014 |
| Primary Actor: | Registered User & Destination Owner | Secondary Actors: | Footprints System |
| Trigger: | Registered user indicates that he wants to edit the detail information of a journey he created. | | |
| Description: | A register user accesses to the Footprints System and edit a destination with new location information, description text and images of a destination. | | |
| Preconditions: | 1. PRE-1. User is logged into Footprints 2. PRE-2. User view the detail page of a destination. | | |
| Postconditions: | 1. POST-1. Destination content is updated to the database. 2. POST-2. Post about edited destination is appended to the related web pages. (Journey page, Personal Page, Main Page, ) | | |
| Normal Flow: | **1.0 Edit destination content.**   1. User browse to destination detail page. 2. User asks to edit the destination information. 3. Footprints displays a form containing current information of the destination. 4. User edit the destination’s location. 5. User edit the destination’s description.(See 1.1,1.2) 6. User submits the edited destination. 7. Footprints updates the edited destination content to database. 8. Footprints updates the edited destination to related pages. | | |
| Alternative Flows: | **1.1 Add more images to the destinations.**  1. User asks to attach more images to the destination.  2. Returns to step 6 of normal flow.  **1.2 Delete images from the destinations.**  1. User selects images of the destinations.  2. User asks to delete selected images from destinations.  3. Returns to step 6 of normal flow. | | |
| Exception | **1.0, 1.1, 1.2 E1 – Cannot communicate with the system server.**  1. Display a message “Fail to edit destination. Please try again later”.  2. Reserved the information in the form. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | B10, B11 | | |
| Other Information: | None | | |
| Assumptions: | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | View Destinations Thumbnail List | | |
| Created By: | Nhan | Date Created: | 2 June 2014 |
| Primary Actor: | Registered Users, | Secondary Actors: | Footprints System |
| Description: | A register user accesses to the Footprints System and edit a destination with new location information, description text and images of a destination. | | |
| Preconditions: | PRE-1. User browse to Footprints domain.  PRE-2. Users browse to Main Page/Journey Page/Personal Page. | | |
| Postconditions: | 1. POST-1. Destination thumbnails are displays. | | |
| Normal Flow: | 1. **Display in main page** 2. User visits main page.(See 1.1, 1.2) 3. Footprints displays list of related destination thumbnails mixed with other content. | | |
| Alternative Flows: | **1.1 Display in personal page.**  1. User visits a personal page.  2. Returns to step 2 of normal flow.  **1.2 Display in journey page.**  1. User visits a journey detail page.  2. Returns to step 2 of normal flow. | | |
| Exception | **1.0, 1.1, 1.2 E1 – Error Loading Page.**  **1. Display error page.** | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | B10, B11 | | |
| Other Information: | None | | |
| Assumptions: | None | | |

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| --- | --- | --- | --- |
| UC ID and Name: | Delete Destination | | |
| Created By: | Nhan | Date Created: | 2 June 2014 |
| Primary Actor: | Registered User & Destination Owner/Admin | Secondary Actors: | Footprints System |
| Trigger: | Registered user indicates that he wants to delete a destination he created. | | |
| Preconditions: | PRE-1. User is logged into Footprints | | |
| Postconditions: | 1. POST-1. The destination is deleted from database. 2. POST-2. The destination is erased from related pages. | | |
| Normal Flow: | 1. **Delete destination by thumbnail** 2. User views the thumbnail of the destination. 3. User asks to delete the destination. 4. User confirms delete action. 5. Footprints deletes destination information in the database. 6. Footprints updates pages that contained the deleted destination. | | |
| Alternative Flows: | * 1. **Delete destination in Destination Detail page.**  1. Users views the Destination Detail page. 2. Returns to step 2 of the normal flow. | | |
| Exception | **1.0, 1.1, 1.2 E1 – Cannot communicate with the system server.**  1. Display a message “Fail to delete destination. Please try again later”. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: |  | | |
| Other Information: | None | | |
| Assumptions: | None | | |
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