Use Cases

for

Footprints

Version 1.0 approved

Prepared by ThangPC

Footprints

03 June 2014

Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Pham Chien Thang | 06/06/2014 | Create Use Cases | 1.0 |
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Use Case List

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| Primary Actor | Use Cases |
| Unregistered User (Guest) | UC-1.0: Register. |
| Registered User | UC-2.0: Login |
| Registered User | UC-3.0: Create Journey |
| Registered User | UC-4.0: Edit Journey |
| Registered User | UC-5.0: Delete Journey |
| Registered User | UC-6.0: View Journey Detail |
| Registered User | UC-7.0: View Journey Thumbnail |
| Registered User | UC-8.0: Add a destination to journey |
| Registered User | UC-9.0: Edit Destination |
| Registered User & Destination Owner | UC-10.0: View Destinations Thumbnail List |
| Registered User & Destination Owner/Admin | UC-11.0:Delete Destination |
| Registered Users, Guests, Admins | UC-12.0: View Destinations Detail Page |
| Registered Users | UC-13.0: Comment on a destination/journey |
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| Registered User | UC-16.0: Like a post |
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| Registered User | UC-24.0: Edit personal information |
| Administrator | UC-25.0: View all users |
| Administrator | UC-26.0: Search user |
| Administrator | UC-27.0: Ban user |
| Administrator | UC-28.0: Unban user |
| Administrator | UC-29.0: View all posts |
| Administrator | UC-30.0: Search post |
| Administrator | UC-31.0: Block post |
| Registered User | UC-32.0 – Search. |
| Registered User | UC-33.0 – Search a Journey |
| Registered User | UC-34.0 – Search a Footprint |
| Registered User | UC-35.0 – Search a Person |

**Business Rules**

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| **No** | **Description** |
| **B1** | The email must not be empty |
| **B2** | The email must contain character ‘@’ and “.” |
| **B3** | The username must not be empty |
| **B4** | The username must be at least 3 characters. |
| **B5** | The password must not be empty |
| **B6** | The password must be at least 6 characters |
| **B7** | The banned account can’t log in the system |
| **B8** | Description must be at least 80 characters. |
| **B9** | Instructions for buyer must be no more than 1500 characters |
| **B10** | The text length must be less than 500 characters |
| **B11** | The maximum time out for a post is 120s |
| **B12** | A destination thumbnail contains author's name, short description, and caption image, number of likes, number of shares, and number of comments. |
| **B13** | The file upload extension name must be ".png, .jpg" |
| **B14** | The target user must exists, not banned, not deleted |
| **B15** | Friend request has 3 state: “pending”, “accepted”, “declined” |
| **B16** | Information of each item in friend list includes: avatar (profile picture), friend’s name, “Friends” menu. |
| **B17** | |  |  | | --- | --- | | Friend list lazy loading technique displays at most 20 friends more each time |  | |
| **B18** | If search result is empty then Footprints system displays message "No result for: *<keyword>*" |
| **B19** | The target user must exists in actor's friend list |
| **B20** | Editing information confirmation dialog includes: "Do you want to save changes?" message, "Accept" button, "Decline" button |
| **B21** | Basic personal information includes: "Current Address" - where user lives in now, "From" - where user comes from, "Genre" - user's sex, "Birthday" - user's birthday, "Email" - user's email address |
| **B22** | User's email cannot be changed |
| **B23** | If user currently failed to communicate with Footprints server then Footprints system display error message dialog "Connection error, Check your network and press F5!" |
| **B24** | Error message dialog includes: error message text, "Accept" button |
| **B25** | Search user criteria includes: "User name" - user name, "Email" - user's email address, "Registration date" "From … TO …" - user registration period, "ID" - user's identification number in database |
| **B26** | Footprints displays search user results by page, each page displays at most 50 users. |
| **B27** | Administrator must enter at least one search criteria before clicking "Search" button |
| **B28** | User has two state, includes: "Active" - active, "Banned" - banned |
| **B29** | Each page does not display more than 50 posts |
| **B30** | Search post criteria includes: "User name" - owner of the post, "Posted date" "From… To …" - post period, "Content" - keyword for searching post's content |
| **B31** | Post has two state, includes: "Active" - active, "Banned" - banned |
| **B32** | Post lazy loading technique displays at most 10 posts more each time |
| **B33** | If user accesses to nonexistent address in the system then Footprints displays error message "Page not found " |
| **B34** | Searched text must be not empty |
| **B35** | A journey creating form includes   * Beginning destination * Ending destination * Several destination between beginning and ending destionation * Date picker for each destination   Image and video attachment for each destination |
| **B36** | User is the owner of this journey |

Use Case Detail

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| UC ID and Name: | **UC-1.0: Register.** | | |
| Created By: | **TrungVT** | Date Created: | **03/06/2014** |
| Primary Actor: | **Unregistered User (Guest)** | Secondary Actors: |  |
| Trigger: |  | | |
| Description: | Unregister user register successfully to website to access full function. Guest access welcome page on browser via internet and input all the required information to register. After that guest check email to validate account. | | |
| Preconditions: | PRE - 1. Guest is on welcome page of Footprints | | |
| Postconditions: | POST - 1. Guest has an account to login our website | | |
| Normal Flow: | **1.0 Register**   1. Guest enters information for “Your name” field. 2. Guest enters information for “Your email” field. 3. Guest enters information for “Password” field. 4. Guest check to checkbox “Check me out”. 5. Guest clicks to “Register Now” button | | |
| Alternative Flows: |  | | |
| Exceptions: | **1.0.E1 Invalid email address (Step 2)**   1. The system indicates a wrong email has been entered. 2. A message “Wrong email” will appear.   **1.0.E2 Duplicate email (Step 2)**   1. The system indicates this email has been used. 2. A message “An email is not available” will appear.   **1.0.E3 Password is too short (Step 3)**   1. The system indicates the entered password is too short. 2. A message “Password has at least 6 characters” will appear.   **1.0.E4 User is not agree with term of use (Step 4)**   1. The system indicates that user is not check to checkbox 2. A message “Please accept to our term of use before register a new account” will appear. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | **B1, B2, B5, B6** | | |
| Other Information: |  | | |
| Assumptions: |  | | |

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| UC ID and Name: | **UC-2.0: Login** | | |
| Created By: | **TrungVT** | Date Created: | **03/06/2014** |
| Primary Actor: | **Registered User** | Secondary Actors: |  |
| Trigger: |  | | |
| Description: | Unregister user register successfully to website to access full function. Guest access welcome page on browser via internet and input all the required information to register. After that guest check email to validate account. | | |
| Preconditions: | PRE-1. Guest is on welcome page of Footprints  PRE-2. Guest has an account to login | | |
| Postconditions: | POST-1. Register user successfully log in the system. | | |
| Normal Flow: | **2.0 Login**   1. Actor enters username in “Enter email” field. 2. Actor enters password in “Password” field. 3. Actor check to checkbox “Rembember me” (See 7.1) 4. Actor clicks “Sign in” button. 5. System indicates this account is valid or not | | |
| Alternative Flows: | **2.1 Login**   1. Actor enters username in “Enter email” field. 2. Actor enters password in “Password” field. 3. Actor check to checkbox “Rembember me” (See 7.1) | | |
| Exceptions: | **2.0 E1 - Invalid email or password (Step 2, 3)**   1. System indicates that the username and password entered are not valid. 2. A message “Email or password is not correct” will appear.   **2.0 E2 - Banned Account (Step 5)**   1. System indicates that this account has been banned. 2. A message “Your account is banned. Please contact for lift ban” is displayed. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | **B1, B2, B5, B6** | | |
| Other Information: |  | | |
| Assumptions: |  | | |

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| UC ID and Name: | **UC-3.0: Create Journey** | | |
| Created By: | **TrungVT** | Date Created: | **03/06/2014** |
| Primary Actor: | **Registered User** | Secondary Actors: |  |
| Trigger: |  | | |
| Description: | User access this function on main page or personal page via internet. User can enter or pick beginning destination, ending destination, several destional between them, pick date, attach images and video. | | |
| Preconditions: | PRE-3.1. User is logged into Footprints  PRE-3.2. User is not existed on banned user list | | |
| Postconditions: | POST-3.1. A journey is created successfully and added to timeline of user | | |
| Normal Flow: | 1. **Create Journey by input destination** 2. User click on “Journey” icon on main page or personal page(See 1.1) 3. Footprints displays a Journey creating form. 4. User fills information about the journey. 5. User click “Post a journey”. 6. Footprints updates content of the journey to database. 7. Foorprints displays the created journey’s content to related web pages. | | |
| Alternative Flows: | **3.1 Create journey by pick a destination on maps**   1. As step 1 on normal flow 2. User clicks to map navigation view on left corner of dialog 3. Footprints will display map and a form. 4. User picks a destination for each field on map 5. User clicks to “Post a journey” 6. Return to stop 5 of normal flow. | | |
| Exceptions: | **3.0E1 – Cannot communicate with the application server.**   1. Footprints displays error message. 2. Footprints reserves the information filled in the journey form. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | **B35** | | |
| Other Information: | 1. User is able to cancel to post a journey inspite of inputting all the information on dialog.  2. If user lose network connectivity during creating journey, a journey will not be created. There is nothing affected to the system | | |
| Assumptions: |  | | |

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| UC ID and Name: | **UC-4.0: Edit Journey** | | |
| Created By: | **TrungVT** | Date Created: | **03/06/2014** |
| Primary Actor: | **Registered User** | Secondary Actors: |  |
| Trigger: | The owner of journey views detail about this journey | | |
| Description: | When created successfully a jouney, the owner user want to change some information of this journey like destinational between beginning and ending destination, date and time or attact another image or video to a destination | | |
| Preconditions: | PRE-4.1. User is logged into Footprints  PRE-4.2. User is not existed on banned user list  PRE-4.3. User is owner of this journey | | |
| Postconditions: | POST-4.1. A journey is edited successfully and information of journey is saved | | |
| Normal Flow: | **4.0 Edit journey**   1. Journey owner clicks to edit journey icon 2. Footprints show a dailog will show on screen with existed information 3. User can delete and add a new information for each required field 4. User clicks “Save” to save the changed information | | |
| Alternative Flows: |  | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | **B35, B36** | | |
| Other Information: | 1. User is able to cancel after re-input all information on field on screen  2. If user lose network connectivity during editing journey, a journey will not be changed. There is nothing affected to the system | | |
| Assumptions: |  | | |

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| UC ID and Name: | **UC-5.0: Delete Journey** | | |
| Created By: | **TrungVT** | Date Created: | **03/06/2014** |
| Primary Actor: | **Registered User** | Secondary Actors: |  |
| Trigger: | The owner of journey views detail about this journey | | |
| Description: | When created successfully a jouney, the owner user want to delete this journey. User will no longer see this journey anymore. | | |
| Preconditions: | PRE-5.1. User is logged into Footprints  PRE-5.2. User is not existed on banned user list  PRE-5.3. User is owner of this journey | | |
| Postconditions: | POST-5.1. A journey is deleted successfully and information of journey is erased from database | | |
| Normal Flow: | **5.0 Delete journey**   1. Owner clicks to edit journey icon 2. A dailog will show on screen with existed information 3. User clicks“Delete” to delete journey 4. Footprints show a pop up with question “Do you really want to delete this journey” with two options “Yes” and “No” 5. Owner chooses “Yes” 6. The journey will be delete from database and no longer being displayed. | | |
| Alternative Flows: | **5.0.E1 Choose “No” (Step 4)**   1. Owner chooses “No” instead of “Yes” 2. Journey is not deleted | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | **B36** | | |
| Other Information: | 1. If user lose network connectivity during deleting journey, a journey will not be changed. There is nothing affected to the system | | |
| Assumptions: |  | | |

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| UC ID and Name: | **UC-6.0: View Journey Detail** | | |
| Created By: | **TrungVT** | Date Created: | **03/06/2014** |
| Primary Actor: | **Registered User** | Secondary Actors: |  |
| Trigger: | The owner of journey views detail about this journey | | |
| Description: | User access to main page or personal page and select a journey to view all information of this journey | | |
| Preconditions: | PRE-6.1. User is logged into Footprints  PRE-6.2. User is not existed on banned user list  PRE-6.3. User is on Main page or Personal page | | |
| Postconditions: | POST-6.1. All information about clicked journey is displayed | | |
| Normal Flow: | **6.0 View journey detail**   1. On Main page or personal page, user click to a container of a journey (such as a cover photo of this journey, a title about this journey) 2. Footprints redirect user to journey page | | |
| Alternative Flows: |  | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: |  | | |
| Other Information: | 1. If user lose network connectivity during processing to redirect to journey page, journey page cannot be displayed | | |
| Assumptions: |  | | |

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| UC ID and Name: | **UC-7.0: View Journey Thumbnail** | | |
| Created By: | **TrungVT** | Date Created: | **03/06/2014** |
| Primary Actor: | **Registered User** | Secondary Actors: |  |
| Trigger: | The owner of journey views detail about this journey | | |
| Description: | User access to Main page will see a cover photo (thumbnail) of a journey, short description and some information about this journey | | |
| Preconditions: | PRE-7.1. User is logged into Footprints  PRE-7.2. User is not existed on banned user list  PRE-7.3. User is on Main page | | |
| Postconditions: | POST-7.1. A journey is deleted successfully and information of journey is erased from database | | |
| Normal Flow: | 1. **View journey thumbnail** | | |
| Alternative Flows: |  | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: |  | | |
| Other Information: | 1. If user lose network connectivity during deleting journey, a journey will not be changed. There is nothing affected to the system | | |
| Assumptions: |  | | |

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| UC ID and Name: | **UC-8.0: Add a destination to journey** | | |
| Created By: | **NhanTT** | Date Created: | **02/06/2014** |
| Primary Actor: | **Registered User** | Secondary Actors: | **Footprints System** |
| Trigger: | Registered user indicates that he wants to share a destination he has arrived | | |
| Description: | A registered 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-8.1. User is logged into Footprints. 2. PRE-8.2. User picks a journey. 3. PRE-8.3. User asks to add a new destination to the journey. | | |
| Postconditions: | 1. POST-8.1. Personal page of the user is appended with the new post of the destination. 2. POST-8.2. Main page of the user and the follower is appended with the new post of the destination. 3. POST-8.3. User’s gallery is updated with new images attached to destination. 4. POST-8.4. Journey detail page is appended with the new post of the destination. | | |
| Normal Flow: | **8.0 Create a destination with full content**   1. User click on “Add a destination” button. 2. Footprints displays a form containing a text area, a map, and a file attachment control. 3. User picks a location on the map canvas in the form.(See 8.2) 4. User give description in the “Description” text area.(See 8.1) 5. User attaches some images (See 8.3) 6. User submits the post. 7. Footprints processes the picture to gain thumbnails 8. Footprints upload original pictures and thumbnails to cloud and return URLs of the pictures and the thumbnails. 9. Footprints stores the information of the destination and the URLs to Database. 10. Footprints displays new destination in pages | | |
| Alternative Flows: | **8.1 Create a destination without Images.**   1. Return to step 6 of normal flow.   8.2 **Create a destination without Description and Images.**  1. Return to step 6 of normal flow.  8.3 **Create a destination without Description.**  1. Return to step 5 of normal flow. | | |
| Exception | 8.0, 8.1, 8.2, 8.3 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, B13** | | |
| Other Information: | None | | |
| Assumptions: | None | | |

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| UC ID and Name: | **UC-9.0: Edit Destination** | | |
| Created By: | **NhanTT** | Date Created: | **02/06/2014** |
| 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-9.1. User is logged into Footprints 2. PRE-9.2. User view the detail page of a destination. | | |
| Postconditions: | 1. POST-9.1. Destination content is updated to the database. 2. POST-9.2. Post about edited destination is appended to the related web pages. (Journey page, Personal Page, Main Page, ) | | |
| Normal Flow: | **9.0 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 9.1,9.2) 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: | **9.1 Add more images to the destinations.**  1. User asks to attach more images to the destination.  2. Returns to step 6 of normal flow.  **9.2 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 | **9.0, 9.1, 9.2 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, B13 | | |
| Other Information: | None | | |
| Assumptions: | None | | |

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| UC ID and Name: | **UC-10.0: View Destinations Thumbnail List** | | |
| Created By: | **NhanTT** | Date Created: | **02/06/2014** |
| 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-10.1. User browse to Footprints domain.  PRE-10.2. Users browse to Main Page/Journey Page/Personal Page. | | |
| Postconditions: | 1. POST-10.1. Destination thumbnails are displays. | | |
| Normal Flow: | **10.0 Display in main page**   1. User visits main page.(See 10.1, 10.2) 2. Footprints displays list of related destination thumbnails mixed with other content. | | |
| Alternative Flows: | **10.1 Display in personal page.**  1. User visits a personal page.  2. Returns to step 2 of normal flow.  **10.2 Display in journey page.**  1. User visits a journey detail page.  2. Returns to step 2 of normal flow. | | |
| Exception | **10.0, 10.1, 10.2 E1 – Error Loading Page.**  **1. Display error page.** | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | **B12** | | |
| Other Information: | None | | |
| Assumptions: | None | | |

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| UC ID and Name: | **UC-11.0:Delete Destination** | | |
| Created By: | **NhanTT** | Date Created: | **02/06/2014** |
| 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-11.1. User is logged into Footprints | | |
| Postconditions: | 1. POST-11.1: The destination is deleted from database. 2. POST-11.2: The destination is erased from related pages. | | |
| Normal Flow: | **11.1 Delete destination by thumbnail**   1. User views the thumbnail of the destination. 2. User asks to delete the destination. 3. User confirms delete action. 4. Footprints deletes destination information in the database. 5. Footprints updates pages that contained the deleted destination. | | |
| Alternative Flows: | **11.2 Delete destination in Destination Detail page.**   1. Users views the Destination Detail page. 2. Returns to step 2 of the normal flow. | | |
| Exception | **11.0, 11.1, 11.2 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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| UC ID and Name: | **UC-12.0: View Destinations Detail Page** | | |
| Created By: | **NhanTT** | Date Created: | **02/06/2014** |
| Primary Actor: | **Registered Users, Guests, Admins** | 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-12.1. User browse to Footprints domain.  PRE-12.2. Users browse to Destination Detail page. | | |
| Postconditions: | POST-12.1. Destination Detail page are displays. | | |
| Normal Flow: | **12.1 Display in destination detail page**  1. User visits Destination Detail page URL.(See 1.1, 1.2)  2. Footprints displays Destination Detail page of the selected Destination. | | |
| Exception | **12.0, 12.1, 12.2 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: | **UC-13.0: Comment on a destination/journey** | | |
| Created By: | **NhanTT** | Date Created: | **02/06/2014** |
| Primary Actor: | **Registered Users** | Secondary Actors: | **Footprints System** |
| Description: | A register user views a journey or a destination and give comments about it. | | |
| Preconditions: | PRE-13.1. User is logged in to Footprints  PRE-13.2. Users views a journey or a destination. | | |
| Postconditions: | POST-13.1. The comment is appended at the end of the comment section of the destination or journey. | | |
| Normal Flow: | **13.1 Give a comment.**   1. User views the destination/journey. 2. User enters content in the comment box of the destination/journey. 3. User submits the comment. 4. Footprints saves the comment content to database. 5. Footprints appends the comment content to the end of the comment section of the destination/journey. | | |
| Exception | **13.1-E1 - The destination/journey was deleted before user submits comment.**   1. Display message error “This destination is no longer available”/” This journey is no longer available”. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | The text length must be less than 150 characters. | | |
| Other Information: | None | | |
| Assumptions: | None | | |
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| UC ID and Name: | **UC-14.0: Edit a comment** | | |
| Created By: | **NhanTT** | Date Created: | **02/06/2014** |
| Primary Actor: | **Registered Users** | Secondary Actors: | **Footprints System** |
| Description: | A register user views a journey or a destination and give comments about it. | | |
| Preconditions: | PRE-14.1. User is logged in to Footprints  PRE-14.2. Users gave a comment on a journey/destination. | | |
| Postconditions: | POST-14.1. The edited comment’s content is updated. | | |
| Normal Flow: | **14.1 Edit a comment.**   1. User visits the page containing the content. 2. User clicks on the editing icon. 3. User edits the content of the comment. 4. User saves the edited content. 5. Footprints saves the edited comment to database 6. Footprints update the comment’s text in the comment section. | | |
| Exception | **14.1. E1 - The destination/journey was deleted before user submits comment.**   1. Display message error “This destination is no longer available”/” This journey is no longer available”. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | The text length must be less than 150 characters, The text field cannot be empty. | | |
| Other Information: | None | | |
| Assumptions: | None | | |
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| UC ID and Name: | **UC-15.0: Delete a comment** | | |
| Created By: | **NhanTT** | Date Created: | **02/06/2014** |
| Primary Actor: | **Registered Users & Comment Owner** | Secondary Actors: | **Footprints System** |
| Description: | A register user deletes a comment he gave on a post. | | |
| Preconditions: | PRE-15.1. User is logged in to Footprints  PRE-15.2. Users gave a comment on a journey/destination. | | |
| Postconditions: | POST-1. The comment is deleted from the comment section. | | |
| Normal Flow: | **15.1: Delete a comment**   1. User visits the page containing the content. 2. User clicks on the delete icon. 3. Footprints deletes the comment from the database. 4. Footprints deletes the comment from the comment section. | | |
| Exception | **15.1-E1 - The destination/journey was deleted before user submits comment.**   1. Display message error “This destination is no longer available”/” This journey is no longer available”. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | The text length must be less than 150 characters. | | |
| Other Information: | None | | |
| Assumptions: | None | | |
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| UC ID and Name: | **UC-16.0: Like a post** | | |
| Created By: | **NhanTT** | Date Created: | 02/06/2014 |
| Primary Actor: | **Registered Users** | Secondary Actors: | **Footprints System** |
| Description: | A registered user like a post. | | |
| Preconditions: | PRE-16.1. User is logged in to Footprints  PRE-16.2. Users gave a comment on a journey/destination. | | |
| Postconditions: | POST-16.1. The number of like of the post is incremented by 1. | | |
| Normal Flow: | **16.1 Like a post**   1. User visits the page containing the content. 2. User views the post. 3. User clicks on like button. 4. Footprints update the like number of the post. | | |
| Exception | **16.1-E1 - The post was deleted before user hits like button.**   * 1. Display message error “This post is no longer available”. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | * After user hit the like button, Footprints replaces it with unlike button. * A post can be a journey / a destination / a comment. | | |
| Other Information: | None | | |
| Assumptions: | None | | |
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| UC ID and Name: | **UC-17.0: Unlike a post** | | |
| Created By: | **NhanTT** | Date Created: | **02/06/2014** |
| Primary Actor: | **Registered Users** | Secondary Actors: | **Footprints System** |
| Description: | A register user unlike a post he liked on a post. | | |
| Preconditions: | PRE-17.1. User is logged in to Footprints  PRE-17.2. Users liked a post. | | |
| Postconditions: | POST-17.1. The number of like of the post is decremented by 1. | | |
| Normal Flow: | **17.1 Unlike a post**   * 1. User visits the page containing the liked post.   2. User clicks on the unlike button.   3. Footprints update the like number of the post. | | |
| Exception | **17.1-E1 - The post was deleted before user hits like button.**   * 1. Display message error “This post is no longer available”. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | * After user hit the unlike button, Footprints replaces it with like button. * A post can be a journey / a destination / a comment. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

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| UC ID and Name: | **UC-18.1: Share a post** | | |
| Created By: | **NhanTT** | Date Created: | **02/06/2014** |
| Primary Actor: | **Registered Users** | Secondary Actors: | **Footprints System** |
| Description: | A registered user shares a post on his personal page | | |
| Preconditions: | PRE-18.1. User is logged in to Footprints  PRE-18.2. Users views a post. | | |
| Postconditions: | POST-18.1. The shared post is | | |
| Normal Flow: | **18.1 Unlike a post**   * 1. User visits the page containing the liked post.   2. User clicks on the unlike button.   3. Footprints update the like number of the post. | | |
| Exception | **18.1-E1 - The post was deleted before user hits like button.**   * 1. Display message error “This post is no longer available”. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | * After user hit the unlike button, Footprints replaces it with like button. * A post can be a journey / a destination. | | |
| Other Information: | None | | |
| Assumptions: | None | | |

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| UC ID and Name: | **UC-19.0: Add friends** | | |
| Created By: | **HungVN** | Date Created: | **03/06/2014** |
| Primary Actor: | **Registered User** | Secondary Actors: |  |
| Trigger: | The Actor selects to add new friend to the database | | |
| Description: | The actor accesses to the Footprints over internet and web browser, see target user from friend suggestions or posts or comments, accesses to the personal page of the target user, sends a friend request to target user. | | |
| Preconditions: | PRE-19.1: The actor logged into Footprints  PRE-19.2: The actor has accessed the target user’s personal page  PRE-19.3: The target user must exists in the system, was not banned, and was not deleted. | | |
| Postconditions: | POST-19.1: Footprints sends a friend request notification to the target user  POST-19.2: Footprints updates state of friend request into database | | |
| Normal Flow: | **19.1 Add friend successfully**   1. The actor accesses to the target user’s personal page 2. The actor clicks on “Add friend” button to send a friend request 3. The system sends a friend request and notification to the target user 4. The system set this friend request to state “pending” 5. Target user clicks on “Confirm” option in “Respond friend request” menu(See 19.2.1) 6. Footprints sends a notification to inform to actor that the friend request was accepted and adds target user to his friend list. | | |
| Alternative Flows: | * 1. **Add friend unsuccessfully**  1. At step 5, target user clicks on “Not Now” option in “Respond friend request” menu 2. Footprints sends a notification to inform to actor that the friend request was declined. | | |
| Exceptions: | **19.0,19.1.E1 The actor requests to add a nonexistent user to the friend list**   * Footprints terminates this invalid friend request   **19.0,19.1.E2 The actor requests to add an user, and there is a friend request between them is pending**   * Footprints terminates this invalid friend request   **19.0,19.1.E3 The actor requests to add a deleted user to the friend list**   * Footprints terminates this invalid friend request   **19.0,19.1.E4 The actor requests to a banned user to the friend list**   * Footprints terminates this invalid friend request | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | **B14, B15** | | |
| Other Information: | The actor cannot cancel the friend request himself. | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-20.0: View friend list** | | |
| Created By: | HungVN | Date Created: | 03/06/2014 |
| Primary Actor: | **Registered User, Guest** | Secondary Actors: |  |
| Trigger: | The user indicates that he want to view someone’s friend list | | |
| Description: | Footprints displays friend list | | |
| Preconditions: | PRE-20.1: The actor logged into Footprints  PRE-20.2: The target user must exists in the system, was not banned, and was not deleted. | | |
| Postconditions: | N/A | | |
| Normal Flow: | **20.1 View friend list**   1. Actor accesses to the friend list page of target user 2. Footprints display information of friends in the list. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **20.0.E1 There is no user added to friend list**   * Footprints displays the message “No friend has been added to friend list” | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | **B14, B16, B17** | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-21.0: Quick find friend** | | |
| Created By: | HungVN | Date Created: | **03/06/2014** |
| Primary Actor: | **Registered User, Guest** | Secondary Actors: |  |
| Trigger: | The user indicates that he want to find people in someone’s friend list | | |
| Description: | The actor accesses to the friend list page, search friends in the list by name. | | |
| Preconditions: | PRE-21.1: Footprints displays search result | | |
| Postconditions: | POST-21.1: Display search result | | |
| Normal Flow: | **21.1 Find friend**   1. The Actor accesses to someone’s friend list page 2. Footprints displays friend list 3. The Actor enters keyword for “Find friend” field. 4. The Actor clicks search button 5. Footprints displays search result without reloading page. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **21.0.E1 Search not found**   * The system indicates that no match result for entered keyword | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | **B16, B18** | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-22.0: Remove friend** | | |
| Created By: | HungVN | Date Created: | 03/06/2014. |
| Primary Actor: | **Registered User** | Secondary Actors: |  |
| Trigger: | The actor is the owner of the friend list page | | |
| Description: | The actor accesses to the friend list page, find friend from friend list, requests to unfriend the specific friend. | | |
| Preconditions: | PRE-22.1: The actor logged into Footprints | | |
| Postconditions: | POST-22.1: Footprints removes target user from friend list of actor  POST-22.2: Footprints removes actor from friend list of target user  POST-22.3: Footprints sends a notification to target user to inform that he/she was unfriended by the actor. | | |
| Normal Flow: | **22.1 Unfriend successfully**   1. The Actor accesses to his friend list page 2. The Actor find the target user from friend list 3. The Actor clicks “Unfriend” button that corresponding to the target user 4. Footprints system removes target user from actor’s friend list. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | Low | | |
| Business Rules: | **B14, B19** | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-23.0: View personal page** | | |
| Created By: | **HungVN** | Date Created: | 03/06/2014 |
| Primary Actor: | **Registered User, Guest** | Secondary Actors: |  |
| Trigger: | N/A | | |
| Description: | The actor accesses to the target user’s personal page | | |
| Preconditions: | N/A | | |
| Postconditions: | POST-23.1: Footprints displays target user’s personal page | | |
| Normal Flow: | **23.1 View personal page**   1. The actor accesses to the target user personal page 2. Footprints display target user’s personal page 3. Footprints displays target user’s public information 4. Footprints displays posts that posted by target user or target user tagged in 5. Footprints displays features for actor on the page (See 1.1, 1.2) | | |
| Alternative Flows: | **23.1 Guest accesses to the target user’s personal page**   1. Footprints does not allow guest to change any information in that page 2. Footprints does not allow guest to comment on that page 3. Footprints only display features for guest in that page   **23.2 Actor accesses to his own personal page**   1. Footprints displays features that allow actor to edit post content | | |
| Exceptions: | **23.0,23.1,23.2.E1** Target user’s personal page not exists   1. Footprints displays message to inform actor that the personal page does not exist. | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | **B32, B33** | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-24.0: Edit personal information** | | |
| Created By: | **HungVN** | Date Created: | **03/06/2014** |
| Primary Actor: | **Registered User** | Secondary Actors: |  |
| Trigger: | The actor is the owner of the personal information management page | | |
| Description: | The actor accesses to his personal page, for some reasons, he wants to change his personal information, accesses to personal information page, modifies the corresponding information that he wants to change, saves the modification. | | |
| Preconditions: | PRE-24.1: The actor logged into Footprints | | |
| Postconditions: | POST-24.1: Footprints save actor’s personal information modification into database | | |
| Normal Flow: | **24.1 Edit personal information successfully**   1. The actor accesses to the personal page 2. The actor accesses to the personal information page 3. The actor modifies the personal information 4. The actor clicks “Save changes” to request Footprints to save the modification 5. Footprints asks for confirmation of saving modified information 6. The actor clicks “Accept” 7. Footprints updates information to database | | |
| Alternative Flows: | **24.2 The actor cancel editing personal information**   1. At step 6, the actor clicks “Decline” 2. Footprints closes confirmation dialog. | | |
| Exceptions: | **24.0.E1 Failed to communicate with Footprints server**   1. Footprints display error message dialog 2. The actor clicks “Đồng ý” in the error message dialog 3. Footprints closes error message dialog 4. Footprints displays personal information form with information is not edited before actor clicks “Lưu thay đổi” | | |
| Priority: | High | | |
| Frequency of Use: | Low | | |
| Business Rules: | **B21, B22, B23, B24** | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-25.0: View all users** | | |
| Created By: | **HungVN** | Date Created: | **03/06/2014** |
| Primary Actor: | **Administrator** | Secondary Actors: |  |
| Trigger: | The administrator indicates that he want to view all users | | |
| Description: | The administrator accesses to user management page, list of users is displayed. | | |
| Preconditions: | PRE-25.1: The actor is logged into system as Administrator | | |
| Postconditions: | POST-25.1: Footprints displays list of user | | |
| Normal Flow: | 1. The actor accesses to the user management page 2. The system display list of users by pages. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | Low | | |
| Business Rules: | **B26** | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-26.0: Search user** | | |
| Created By: | **HungVN** | Date Created: | **03/06/2014** |
| Primary Actor: | **Administrator** | Secondary Actors: |  |
| Trigger: | The administrator indicates that he want to search user | | |
| Description: | The administrator accesses to user management page, enters information for one or more criterion, search user by entered information. | | |
| Preconditions: | PRE-26.1: The actor is logged into system as Administrator | | |
| Postconditions: | POST-26.1: Footprints update user state into database | | |
| Normal Flow: | **26.1 Search user**   1. The administrator accesses to the user management page 2. The administrator enters information to search user 3. The administrator clicks “Search” button 4. Footprints displays the search result | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **26.0.E1 Administrator does not enter any information before search**   * The system asks to enter information before searching | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | **B24, B25, B26, B27** | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-27.0: Ban user** | | |
| Created By: | **HungVN** | Date Created: | **03/06/2014** |
| Primary Actor: | **Administrator** | Secondary Actors: |  |
| Trigger: | The administrator indicates that he want to ban user | | |
| Description: | The administrator accesses to user management page, enters information for one or more criterion, search user who violated terms of service by entered information, ban user. | | |
| Preconditions: | PRE-27.1: The actor is logged into system as Administrator  PRE-27.2: Target user is active | | |
| Postconditions: | POST-27.1: Footprints updates user state into database | | |
| Normal Flow: | **27.1 Ban user successfully**   1. The administrator accesses to the user management page 2. The administrator enters information to search user who violates terms of services 3. The administrator clicks “Ban” option in “Change state” menu. 4. Footprints asks for confirmation of changing user state 5. The administrator clicks “Accept” button in confirmation dialog 6. Footprints changes user state into “Banned” and update into database | | |
| Alternative Flows: | **27.2 Ban user unsuccessfully**   1. At step 5, the administrator click “Decline” button in confirmation dialog 2. Footprints keeps user state “Active” and won update database | | |
| Exceptions: | **27.0.E1 Failed to communicate with Footprints server**   1. Footprints display error message dialog 2. The actor clicks “Accept” in the error message dialog 3. Footprints closes error message dialog | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | **B23,B28** | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-28.0: Unban user** | | |
| Created By: | **HungVN** | Date Created: | **03/06/2014** |
| Primary Actor: | **Administrator** | Secondary Actors: |  |
| Trigger: | The administrator indicates that he want to unban an user | | |
| Description: | The administrator accesses to user management page, enters information for one or more criterion, search user by entered information. | | |
| Preconditions: | PRE-28.1: The actor is logged into system as Administrator  PRE-28.2: Target user was banned | | |
| Postconditions: | POST-28.1: Footprints displays search result | | |
| Normal Flow: | **28.1 Unban user successfully**   1. The administrator accesses to the user management page 2. The administrator enters information to search specified user 3. The administrator clicks “Active” option in “Change state” menu. 4. Footprints asks for confirmation of changing user state 5. The administrator clicks “Accept” button in confirmation dialog 6. Footprints changes user state into “Active” and update into database | | |
| Alternative Flows: | **1.1 Unban user unsuccessfully**   1. At step 5, the administrator click “Decline” button in confirmation dialog 2. Footprints keeps user state “Decline” and won update database | | |
| Exceptions: | **1.0.E1 Failed to communicate with Footprints server**   1. Footprints display error message dialog 2. The actor clicks “Accept” in the error message dialog 3. Footprints closes error message dialog | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | **B23,B28** | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-29.0: View all posts** | | |
| Created By: | **HungVN** | Date Created: | **03/06/2014** |
| Primary Actor: | **Administrator** | Secondary Actors: |  |
| Trigger: | The administrator indicates that he want to view all post | | |
| Description: | The administrator accesses to post management page, list of post is displayed. | | |
| Preconditions: | PRE-29.1: The actor is logged into system as Administrator | | |
| Postconditions: | POST-29.1: Footprints displays list of post | | |
| Normal Flow: | **29.1 View all post**   1. The actor accesses to the post management page 2. The system display list of post by pages. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | Low | | |
| Business Rules: | **B29** | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-30.0: Search post** | | |
| Created By: | **HungVN** | Date Created: | **03/06/2014** |
| Primary Actor: | **Administrator** | Secondary Actors: |  |
| Trigger: | The administrator indicates that he want to search post | | |
| Description: | The administrator accesses to post management page, enters information for one or more criterion, search post by entered information. | | |
| Preconditions: | PRE-30.1: The actor is logged into system as Administrator | | |
| Postconditions: | POST-30.1: Footprints update user state into database | | |
| Normal Flow: | **30.1 Search user**   1. The administrator accesses to the post management page 2. The administrator enters information to search post 3. The administrator clicks “Search” button 4. Footprints displays the search result | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **30.0.E1 Administrator does not enter any information before search**   * The system asks to enter information before searching | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | **B24, B27, B29, B30** | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-31.0: Block post** | | |
| Created By: | **HungVN** | Date Created: | **03/06/2014** |
| Primary Actor: | **Administrator** | Secondary Actors: |  |
| Trigger: | The administrator indicates that he want to block a post | | |
| Description: | The administrator accesses to post management page, enters information for one or more criterion, search post which violated terms of services by entered information, block post. | | |
| Preconditions: | PRE-31.1: The actor is logged into system as Administrator | | |
| Postconditions: | POST-31.1: Footprints updates post state into database | | |
| Normal Flow: | **31.1 Block post successfully**   1. The administrator accesses to the post management page 2. The administrator enters information to search post which violates terms of service 3. The administrator clicks “Ban” option in “Change State” menu. 4. Footprints asks for confirmation of changing user state 5. The administrator clicks “Accept” button in confirmation dialog (See 31.2) 6. Footprints changes post state into “Banned” and update into database | | |
| Alternative Flows: | **31.2 Block post unsuccessfully**   1. The administrator click “Decline” button in confirmation dialog 2. Footprints keeps post state “Active” and won update database | | |
| Exceptions: | **31.0.E1 Failed to communicate with Footprints server**   1. Footprints display error message dialog 2. The actor clicks “Accept” in the error message dialog 3. Footprints closes error message dialog | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | **B23,B31** | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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| UC ID and Name: | **UC-32.0 – Search.** | | |
| Created By: | **ThangPC** | Date Created: | **03/06/14** |
| Primary Actor: | **Registered User** | Secondary Actors: | **Unregistered User** |
| Trigger: | Button **Search** Clicked. | | |
| Description: | Footprints website allow viewer (Registered and Unregistered Users) search information that they’re interested in: a User, Journey, and Footprint in Search Result Page. | | |
| Pre-conditions: | PRE-32.1: Viewer has entered to Footprints domain by browser. | | |
| Post-conditions: | POST-32.1: All results include: User, Journey, Footprint that matched with the entered text must be displayed in a new Search Result Page. | | |
| Normal Flow: | **32.1: Search by Search Text Box**   1. Viewer entered some words into Search Text Box. 2. Viewer clicked on Search Button or Press Enter. | | |
| Alternative Flows: | **32.2: Search via Third Party Search Engine (Google, Bing, …)**  1. Viewer browsed Third Party Search Engine (Google, Bing, …)  2. Viewer entered some words on text box with tag “Footprints”.  3. Viewer clicked on a **Footprints** link in Search Engine Search Result Page. | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | **B34.** | | |
| Other Information: | None. | | |
| Assumptions: | None. | | |

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| UC ID and Name: | **UC-33.0 – Search a Journey** | | |
| Created By: | **ThangPC** | Date Created: | **03/06/14** |
| Primary Actor: | **Registered User** | Secondary Actors: | **Unregistered User** |
| Trigger: | Button **Search** Clicked then **Journey Link** clicked on Search Result Page | | |
| Description: | Footprints website allow viewer (**Registered** and **Unregistered** Users) search journeys. | | |
| Pre-conditions: | PRE-33.1: Viewer has entered to Footprints domain by browser. | | |
| Post-conditions: | POST-33.2: All Journeys that has information matched with the entered text must be displayed. | | |
| Normal Flow: | **33.1: Search Journey by Search Text Box**  1. Viewer entered some words into Search Text Box.  2. Viewer clicked on Search Button or Press Enter.  3. Viewer clicked on Journey link. | | |
| Alternative Flows: | **33.2: Search Journey via Third Party Search Engine (Google, Bing, …)**  1. Viewer browsed Third Party Search Engine (Google, Bing, …)  2. Viewer entered some words on text box with tag “Footprints”.  3. Viewer clicked on a **Footprints** link in Search Engine Search Result Page. | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | **B34.** | | |
| Other Information: | None. | | |
| Assumptions: | None. | | |

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| UC ID and Name: | **UC-34.0 – Search a Footprint** | | |
| Created By: | **ThangPC** | Date Created: | **03/06/14** |
| Primary Actor: | **Registered User** | Secondary Actors: | **Unregistered User** |
| Trigger: | Button **Search** Clicked then **Footprint Link** clicked on Search Result Page | | |
| Description: | Footprints website allow viewer (**Registered** and **Unregistered** Users) search footprints. | | |
| Pre-conditions: | PRE-34.1: Viewer has entered to Footprints domain by browser. | | |
| Post-conditions: | POST-34.1: All Footprints that has information matched with the entered text must be displayed. | | |
| Normal Flow: | **34.1: Search Footprint by Search Text Box**  1. Viewer entered some words into Search Text Box.  2. Viewer clicked on Search Button or Press Enter.  3. Viewer clicked on Footprint link. | | |
| Alternative Flows: | **34.2: Search Footprint via Third Party Search Engine (Google, Bing, …)**  1. Viewer browsed Third Party Search Engine (Google, Bing, …)  2. Viewer entered some words on text box with tag “Footprints”.  3. Viewer clicked on a **Footprints** link in Search Engine Search Result Page. | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Frequency of Use: | Medium | | |
| Business Rules: | **B34.** | | |
| Other Information: | None. | | |
| Assumptions: | None. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **UC-35.0 – Search a Person** | | |
| Created By: | **ThangPC** | Date Created: | **03/06/14** |
| Primary Actor: | **Registered User** | Secondary Actors: | **Unregistered User** |
| Trigger: | Button **Search** Clicked then **Person Link** clicked on Search Result Page. | | |
| Description: | Footprints website allow viewer (**Registered** and **Unregistered** Users) search person. | | |
| Pre-conditions: | PRE-35.1: Viewer has entered to Footprints domain by browser. | | |
| Post-conditions: | POST-35.1: All Persons that has information matched with the entered text must be displayed. | | |
| Normal Flow: | **35.1: Search Person by Search Text Box**  1. Viewer entered some words into Search Text Box.  2. Viewer clicked on Search Button or Press Enter.  3. Viewer clicked on Person link. | | |
| Alternative Flows: | **35.2: Search Person via Third Party Search Engine (Google, Bing, …)**  1. Viewer browsed Third Party Search Engine (Google, Bing, …)  2. Viewer entered some words on text box with tag “Footprints”.  3. Viewer clicked on a **Footprint** link in Search Engine Search Result Page. | | |
| Exceptions: |  | | |
| Priority: | High | | |
| Frequency of Use: | High | | |
| Business Rules: | **B34.** | | |
| Other Information: | None. | | |
| Assumptions: | None. | | |