Use Cases

for

<ChasExplorer>

Version 1.2

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<03-09-19>

Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Jing Xiang | 10-09-19 | Adding more details | 1.0 |
| Samuel | 12-09-19 | Changing some missing details | 1.1 |
| Samuel | 26-10-19 | Added more missing details | 1.2 |

# Guidance for Use Case

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

# Use Case Identification

## Use Case ID

Give each use case a unique numeric identifier, in hierarchical form: X.Y. Related use cases can be grouped in the hierarchy. Functional requirements can be traced back to a labeled use case.

## 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:

1. View part number information.
2. Manually mark hypertext source and establish link to target.
3. 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.

# Use Case Definition

## Actor

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(s) that will be performing this use case.

## 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.

## 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.

## Flow of Events

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.

## Alternative Flows

Document other, legitimate usage scenarios that can take place within this use case separately in this section. State the alternative course, and describe any differences in the sequence of steps that take place. Number each alternative course using the Use Case ID as a prefix, followed by “AC” to indicate “Alternative Course”. Example: X.Y.AC.1.

## 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. Number each exception using the Use Case ID as a prefix, followed by “EX” to indicate “Exception”. Example: X.Y.EX.1.

## 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.

## 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

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | UC001 | | |
| Use Case Name: | Register | | |
| Created By: | Jing Xiang | Last Updated By: | Samuel |
| Date Created: | 03-09-19 | Date Last Updated: | 26-10-19 |

|  |  |
| --- | --- |
| Actor: | User, Google |
| Description: | Register a new user account (local and google) |
| Preconditions: | The user has downloaded and started the application |
| Postconditions: | 1. User account is created in the application 2. The application displays login page |
| Priority: | Low |
| Frequency of Use: | Low |
| Flow of Events: | Local Register:   1. The user inputs new user id and password 2. The user selects “CREATE ACCOUNT” 3. The application validates the user details 4. The user account is created 5. The application displays a successful message 6. Use case ends   Google Register:   1. The user click the google button for registration 2. The user inputs google email address and password 3. The user selects “LINK ACCOUNT” 4. The application validates the user details 5. The user account is granted permission 6. The application displays a successful message 7. Use case ends |
| Alternative Flows: | If user inputs invalid email address/password or an existed email address   1. The application displays an error message 2. The application returns to step 2)   If user inputs empty fields   1. The application displays an error message 2. The application returns to step 2) |
| Exceptions: | 1. If Google or Local Server is down. 2. Display an informative message to try again later. |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | All Servers are up and running with no connection problems. |
| Notes and Issues: | - |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | UC002 | | |
| Use Case Name: | Login | | |
| Created By: | Jing Xiang | Last Updated By: | Samuel |
| Date Created: | 03-09-19 | Date Last Updated: | 26-10-19 |

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| --- | --- |
| Actor: | User, Google |
| Description: | Perform login procedure to allow user to rate specific CHAS clinic and give a review |
| Preconditions: | User must be a registered user with the application |
| Postconditions: | 1) User is successfully logged in and moved to the Home page  2) Home page displays search bar and map view of clinic details |
| Priority: | Medium |
| Frequency of Use: | Medium |
| Flow of Events: | 1. The user selects “Login” 2. The user inputs email address and password 3. The user clicks “Ok” 4. The application validates the user details 5. The application moves to the profile page 6. Use case ends |
| Alternative Flows: | If user inputs invalid email address/password or an existed email address   1. The application displays an error message 2. The application returns to step 2)   If user inputs empty fields   1. The application displays an error message 2. The application returns to step 2) |
| Exceptions: | EX1: If user is not registered   1. The user starts from step 1) of “Register” use case (UC001) |
| Includes: | Register |
| Special Requirements: | - |
| Assumptions: | All Servers are up and running with no connection problems. |
| Notes and Issues: | - |

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| --- | --- | --- | --- |
| Use Case ID: | UC003 | | |
| Use Case Name: | Logout | | |
| Created By: | Jing Xiang | Last Updated By: | Jing Xiang |
| Date Created: | 03-09-19 | Date Last Updated: | 10-09-19 |

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| --- | --- |
| Actor: | User |
| Description: | The use case allows the user to log out of the account at any point of time |
| Preconditions: | User has successfully logged in to the application |
| Postconditions: | User has successfully logged out of the application |
| Priority: | Low |
| Frequency of Use: | Low |
| Flow of Events: | 1. The user selects “LOG OUT” 2. The user has logged out of the application 3. Use case ends |
| Alternative Flows: | - |
| Exceptions: | - |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | User is already logged in. |
| Notes and Issues: | - |

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| --- | --- | --- | --- |
| Use Case ID: | UC004 | | |
| Use Case Name: | Rate Clinic’s Score | | |
| Created By: | Jing Xiang | Last Updated By: | Samuel |
| Date Created: | 03-09-19 | Date Last Updated: | 26-10-19 |

|  |  |
| --- | --- |
| Actor: | User, Google |
| Description: | The use case allows user to rate specific CHAS clinic |
| Preconditions: | The user is login and on a CHAS clinic page after searching |
| Postconditions: | Give a one to five star rating |
| Priority: | Medium |
| Frequency of Use: | Medium |
| Flow of Events: | 1. The user taps on “rating” 2. The user selects the amount of star rating to give 3. The user must write a review 4. User clicks submit 5. Review is saved 6. Use case ends |
| Alternative Flows: | If user is not logon   1. Application will provide an informative message to the user asking them to login 2. User login 3. The application returns to step 2) |
| Exceptions: | 1. If User has already rated and reviewed the clinic, rating it again will remove the old rating given by the user. Replacing it with the new one. |
| Includes: | Login |
| Special Requirements: | - |
| Assumptions: | All Servers are up and running with no connection problems. |
| Notes and Issues: | - |

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| --- | --- | --- | --- |
| Use Case ID: | UC005 | | |
| Use Case Name: | Search Clinic | | |
| Created By: | Jing Xiang | Last Updated By: | Samuel |
| Date Created: | 03-09-19 | Date Last Updated: | 26-10-19 |

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| --- | --- |
| Actor: | User |
| Description: | The use case allows the user to search for a CHAS clinic with postal code, telephone number, name, type or distance |
| Preconditions: | The user has downloaded and started the application |
| Postconditions: | Display CHAS clinic if match |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | Map Search :   1. The user selects the search bar 2. The user inputs the details 3. The user press search 4. Map will plot markers based on search results 5. Tapping markers will forward users to Clinic Details (UC008) 6. Use case ends   Clinic List Search :   1. The user selects the search bar 2. The user inputs the details 3. The user press search 4. Clinic List will filter the existing list with the search query 5. The List will be updated with searched results. 6. Tapping on any results will forward users to Clinic Details (UC008) 7. Use case ends |
| Alternative Flows: | No matching clinic   1. The application displays not found 2. The user inputs the details again   The user has successfully input search terms that corresponds to the list of clinics matched   1. The user selects the search bar 2. The user inputs the details 3. The user press search 4. The application compares the information 5. The application displays the matching clinics 6. Use case ends |
| Exceptions: | - |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | All Servers are up and running with no connection problems. |
| Notes and Issues: | - |

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| --- | --- | --- | --- |
| Use Case ID: | UC007 | | |
| Use Case Name: | View List of Clinics | | |
| Created By: | Jing Xiang | Last Updated By: | Samuel |
| Date Created: | 03-09-19 | Date Last Updated: | 26-10-19 |

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| --- | --- |
| Actor: | User, Google |
| Description: | The use case allows the user to view the names of all the list of clinics before deciding what action to take next |
| Preconditions: | The user has downloaded and started the application |
| Postconditions: | The application displays view list of clinics page |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | 1. The user selects “List” 2. The application displays view list of clinics page 3. Use case ends |
| Alternative Flows: | - |
| Exceptions: | - |
| Includes: | View Clinic Information |
| Special Requirements: | - |
| Assumptions: | All Servers are up and running with no connection problems. |
| Notes and Issues: | - |

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| --- | --- | --- | --- |
| Use Case ID: | UC008 | | |
| Use Case Name: | View Clinic Information | | |
| Created By: | Jing Xiang | Last Updated By: | Samuel |
| Date Created: | 03-09-19 | Date Last Updated: | 26-10-19 |

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| --- | --- |
| Actor: | User, Google |
| Description: | The use case allows the user to view the information about a clinic |
| Preconditions: | The user has successfully searched for a clinic and click on it, or user click on one of the clinics in list of clinics |
| Postconditions: | The application displays a view clinic information page |
| Priority: | Medium |
| Frequency of Use: | Medium |
| Flow of Events: | 1. The user selects a specific clinic 2. The application displays a specific clinic page with the following information:  * Name * Address * Rating Score * Review * Telephone Number * Operating Hours * Type  1. Use case ends |
| Alternative Flows: | - |
| Exceptions: | - |
| Includes: | - |
| Special Requirements: | - |
| Assumptions: | All Servers are up and running with no connection problems. |
| Notes and Issues: | - |

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| --- | --- | --- | --- |
| Use Case ID: | UC009 | | |
| Use Case Name: | Call Clinic Telephone Number | | |
| Created By: | Jing Xiang | Last Updated By: | Samuel |
| Date Created: | 03-09-19 | Date Last Updated: | 26-10-19 |

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| --- | --- |
| Actor: | User, Google |
| Description: | The use case allows the user to call the clinic |
| Preconditions: | The user has successfully entered the view clinic information page |
| Postconditions: | The user has successfully called the clinic with the Telephone Number provided |
| Priority: | Medium |
| Frequency of Use: | Low |
| Flow of Events: | 1. The user is viewing a specific clinic 2. The user clicks on the Telephone Number 3. The user will be prompted to make a call 4. Use case ends |
| Alternative Flows: | - |
| Exceptions: | EX1: First time users depending on android version might be prompted to choose to use which application to call the Telephone Number  OR  EX2: User cancels the Telephone Number   1. The application returns back to view clinic information page |
| Includes: | - |
| Special Requirements: | User must be using any device with a valid SIM Card with phone number. |
| Assumptions: | All Servers are up and running with no connection problems.  User are using a phone. |
| Notes and Issues: | - |