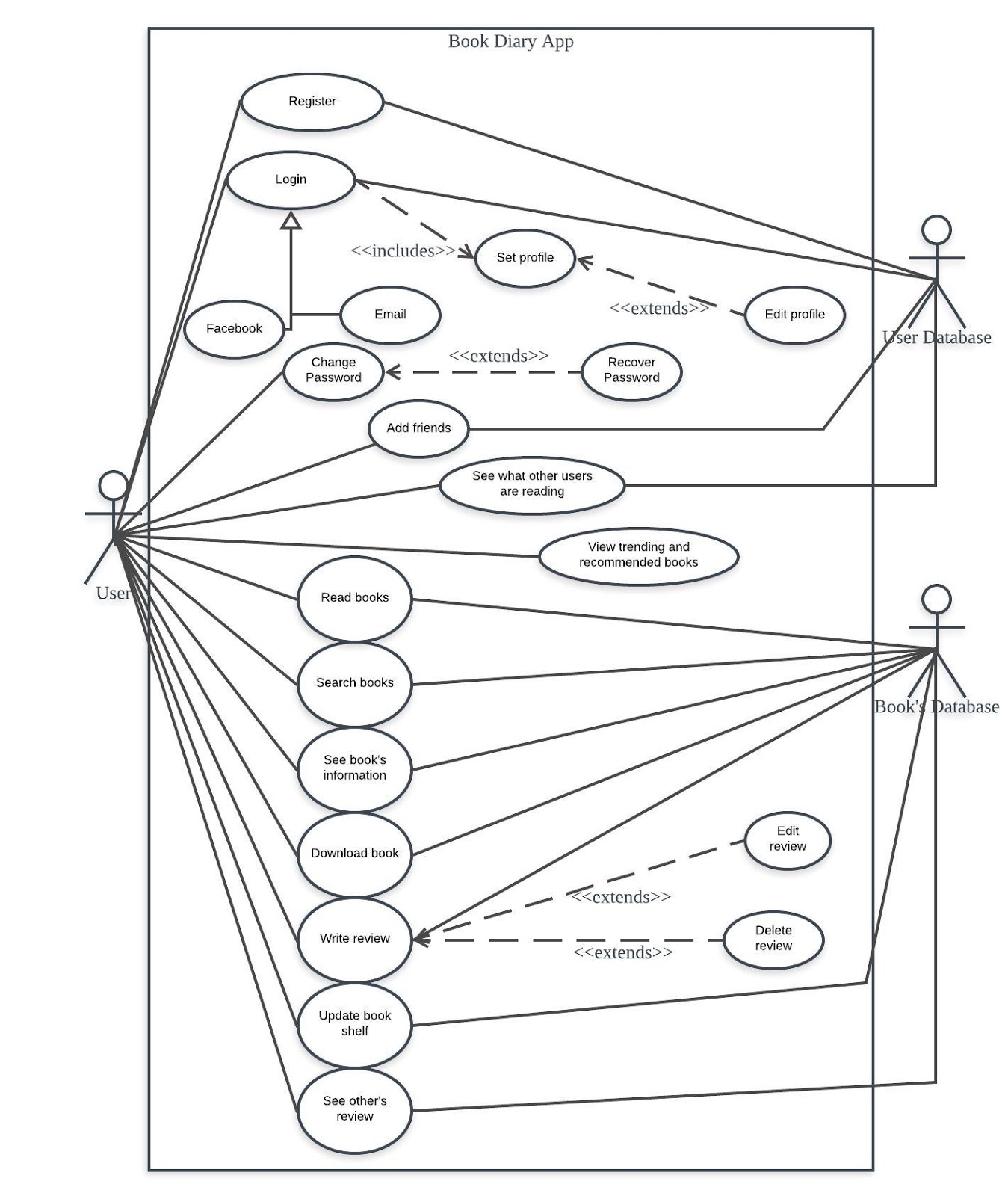
**Initial use case model, consisting of use case diagram and use case descriptions:**

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | L.001 | | |
| Use Case Name: | Register a member | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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|  |  |
| --- | --- |
| Actor: | User (Initiating Actor), User System |
| Description: | User enters his/her email account and basic information for the first time to register User System. |
| Preconditions: | 1. User has Internet connection. 2. User has downloaded the app. 3. Light is running. 4. User has an email account. |
| Postconditions: | 1. User can use his/her email account to login the app. |
| Priority: | High |
| Frequency of Use: | Once per user |
| Flow of Events: | 1. User runs Light. 2. User System shows options to register or login. 3. User clicks on "Register" button. 4. User System requests for a username, an email, a password, and a confirm password. 5. User enters the information accordingly. 6. User System checks the passwords to ensure password matching. 7. If the two passwords match, User System searches the email in the Database of User System. 8. If the email is not present in the Database of the User System, User System will send a confirmation link on successful registration to user’s email. 9. User receives an email for confirmation of successful registration. 10. User clicks on the link provided in the email to confirm registration. 11. User is granted access to the app. |
| Alternative Flows: | L.001.AC.1: If the passwords do not match.   1. User System displays red label stating that passwords do not match. 2. User returns to step 5.   L.001.AC.2: If the email is already present in User’s Database   1. User System displays red label stating that email has been used. 2. User returns to step 5. |
| Exceptions: | L.001.EX.1: User does not click on the confirmation link   1. Registration fails.   L.001.EX.2: User clicks on "login" button while registering  1. User is brought to Use Case BD002. |
| Includes: | None. |
| Special Requirements: | 1. User System must send an email for confirmation to user within 5 minutes. 2. The database of User System must search the whole database within 40 seconds to check the presence of email. |
| Assumptions: | 1. User must have a personal account to store data in the Light. |
| Notes and Issues: | None. |

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| --- | --- | --- | --- |
| Use Case ID: | L.002 | | |
| Use Case Name: | Login Light by email | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), User System |
| Description: | Existing user logs in the Light by email account |
| Preconditions: | 1. User has Internet connection. 2. User has registered to the User System. |
| Postconditions: | 1. User have access to use the function of Light. |
| Priority: | High |
| Frequency of Use: | Once per day |
| Flow of Events: | 1. User runs Light. 2. User System displays options to register or login. 3. User clicks on the "Login" button. 4. User System displays options to login via email or Facebook. 5. User clicks on "Login via Email" button. 6. User System requests for an email and a password. 7. User enters his email and password accordingly. 8. User System checks for email in the database of User System 9. If the email exists in the database, User System will compare passwords inputted by the user with the database of User System. 10. If the passwords match with User’s Database, user will be given access to Light. |
| Alternative Flows: | L.002.AC.1: If email does not exist in User’s Database   1. User System displays red label stating that email does not exist. 2. User returns to step 7.   L.002.AC.2: If the passwords do not match   1. User System displays red label stating that passwords do not match. 2. User returns to step 7. |
| Exceptions: | L.002.EX.1: User clicks on "Register" button while logging in.   1. User is brought to Use Case BD001.   L.002.EX.2: User has entered the wrong password for 3 times.   1. User System displays button asking if the user wants to reset his/her passwords. 2. If user clicks on "Yes" button, user is brought to Use Case L.005. |
| Includes: | L.017 |
| Special Requirements: | 1. User System must search the whole database within 40 seconds to check the presence of email.   1. User System must check the input passwords within 10 seconds. |
| Assumptions: | 1. User must have a personal account to store data in the Light. |
| Notes and Issues: | None. |

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| --- | --- | --- | --- |
| Use Case ID: | L.003 | | |
| Use Case Name: | Login Light by Facebook | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), User System |
| Description: | User logs in the Light by using Facebook account |
| Preconditions: | 1. User has Internet connection. 2. User has a Facebook account. |
| Postconditions: | 1. User have access to use the function of Light. |
| Priority: | High |
| Frequency of Use: | Once per day |
| Flow of Events: | 1. User runs Light. 2. User System displays options to register or login. 3. User clicks on the "Login" button. 4. User System displays options to login via email or Facebook. 5. User clicks on "Login via Facebook" button. 6. User System requests for Facebook username and password. 7. User enters his Facebook username and password accordingly. 8. User System builds connection with Facebook to check for user’s Facebook login information. 9. If the login information is correct, user will be given access to the function of Light. |
| Alternative Flows: | L.003.AC.1: If Facebook is installed within user’s phone   1. User System asks for user’s permission to access user’s Facebook account. 2. If allowed, user is directly logged in to Light.   L.003.AC.2: If Facebook login information is wrong   1. User System displays red label stating that the username/passwords entered are incorrect. 2. User returns to step 7. |
| Exceptions: | L.003.EX.1: User clicks on "Register" button while logging in.   1. User is brought to Use Case L.001.   L.003.EX.2: User has entered the wrong password for 3 times.   1. User System displays button asking if the user wants to reset his/her Facebook password. 2. If user clicks on "Yes" button, user is brought to Facebook’s password recovery. |
| Includes: | L.017 |
| Special Requirements: | 1. User System must connect to Facebook's API within 40 seconds. |
| Assumptions: | User may not have an email account to register. |
| Notes and Issues: | The connection with Facebook must be resolved. |

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| --- | --- | --- | --- |
| Use Case ID: | L.004 | | |
| Use Case Name: | Change Password | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), User System |
| Description: | User changes his/her passwords of his/her account in Light. |
| Preconditions: | 1. User has internet connection. 2. User has logged in. |
| Postconditions: | 1. User’s password successfully changed. |
| Priority: | Medium |
| Frequency of Use: | Once per month |
| Flow of Events: | 1. User clicks on "Change Password" button. 2. User System requests for both old password and new password. 3. User enters his/her old and new passwords. 4. User System checks the input old password with the password in the database. 5. If old passwords match, User System changes user’s password from old to new ones in the database. |
| Alternative Flows: | L.004.AC.1: User enters wrong old password.   1. User System displays red label stating the old password is incorrect. 2. User is brought to step 3. |
| Exceptions: | L.004.EX.1: User has entered wrong old password for 3 times   1. User System displays red label stating that user has reached the upper limit of trying a password per day. 2. The account is locked and User System displays red label asking whether user wants to recover his/her password. 3. User is brought to Use Case L.005. |
| Includes: | None. |
| Special Requirements: | 1. User System must check the input passwords within 10 seconds.  2. User System must count the number of user's wrong input.  3. User System must warn user the account is locked within 1 second after the third time trying. |
| Assumptions: | User needs to update his/her password per month to keep his/her account safe. |
| Notes and Issues: | None. |

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| --- | --- | --- | --- |
| Use Case ID: | L.005 | | |
| Use Case Name: | Recover Password | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), User System |
| Description: | User recovers his/her password in the database of User System. |
| Preconditions: | 1. User has internet connection. 2. User has entered the wrong password for 3 times in login page. 3. This use case extends Use Case L.004. |
| Postconditions: | 1. User’s password successfully recovered. |
| Priority: | High |
| Frequency of Use: | Once per year |
| Flow of Events: | 1. User clicks on "Forget Password" button. 2. User System emails reset password link to user’s email. 3. User clicks on the reset password link. 4. User enters his/her new password inside the reset password link. 5. User System saves user’s new password in the database of User System. |
| Alternative Flows: | None. |
| Exceptions: | L.005.EX.1:User does not click on the reset link  1. The reset process fails.  2. User's account is locked. |
| Includes: | None. |
| Special Requirements: | 1. User System must send an email for reset to user within 5 minutes. 2. User System must update user's new password within 30 seconds. |
| Assumptions: | The email is able to verify the user's identity. |
| Notes and Issues: | None. |

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| --- | --- | --- | --- |
| Use Case ID: | L.006 | | |
| Use Case Name: | Search books | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), Book System |
| Description: | User searches for books in Book Database according to his/her input keyword |
| Preconditions: | 1. User has internet connection. 2. User has logged in Light. 3. User has entered the search bar. |
| Postconditions: | 1. Book System displays list of books matching the input keyword in the ranked order of more matching keywords and larger number of downloads. |
| Priority: | High |
| Frequency of Use: | Once per 2 days |
| Flow of Events: | 1. User enters the keywords of the wanted book to search bar. 2. Book System displays a list of books matching the input keyword in the ranked order, with book cover on the left and title on the right. |
| Alternative Flows: | L.006.AC.1: No book's title matches the input keywords.   1. Book System displays a label stating "No book is found". 2. User is brought to step 1. |
| Exceptions: | None. |
| Includes: | None. |
| Special Requirements: | 1. Book System must search the whole database within 5 minutes.  2. Book System must rank the list of related books in the order of more matching keywords and larger number of downloads within 5 minutes. |
| Assumptions: | Book Database is able to search the keyword efficiently. |
| Notes and Issues: | The time should be shortened. |

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| --- | --- | --- | --- |
| Use Case ID: | L.007 | | |
| Use Case Name: | View book’s detailed information | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), Book System |
| Description: | User looks into a particular book’s detailed information |
| Preconditions: | 1. User has logged in Light. 2. User has internet connection. 3. User has selected a book. |
| Postconditions: | 1. The system displays a particular book’s information (author, date of publish, publishing office, title, ISBN, page, summary, reviews and other books similar to this one). |
| Priority: | Medium |
| Frequency of Use: | Once per 2 days |
| Flow of Events: | 1. User chooses a book by clicking on the book's cover. 2. Book System displays that particular book’s information and details. |
| Alternative Flows: | None. |
| Exceptions: | L.006.EX.1: Book Database does not have enough information of a book.  1. User quits the information page. |
| Includes: | None. |
| Special Requirements: | 1. Book System must display the information of a book within 20 seconds. |
| Assumptions: | The books in the Book Database have specific information. |
| Notes and Issues: | None. |

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| --- | --- | --- | --- |
| Use Case ID: | L.008 | | |
| Use Case Name: | Read books | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), Book System |
| Description: | User reads the content of a particular book. |
| Preconditions: | 1. User has internet connection. 2. User has logged in. 3. User has selected a book. |
| Postconditions: | 1. Book System displays the pages of a book. 2. User is able to switch between different pages. |
| Priority: | High |
| Frequency of Use: | Twice per day |
| Flow of Events: | 1. User chooses a book from the bookshelf or the search bar. 2. Book System displays "Read" button for the book. 3. User clicks on the "Read" button to start reading the book. 4. Book System displays the content of the book. 5. User clicks on the left to read the next page and right to read the previous page. |
| Alternative Flows: | L.008.AC.1: The book page reaches the end.  1. Book System displays a label stating that user has finished the book.  L.008.AC.2: User quits reading.  1. The reading progress is stored in user's account. |
| Exceptions: | L.008.EX.1: Internet disconnects when user reads the book.  1. The unloaded pages cannot shown on the screen. |
| Includes: | None. |
| Special Requirements: | 1. Book System must be able to change pages within 2 seconds according to user's screen touch. |
| Assumptions: | None. |
| Notes and Issues: | The animation of pages turning is needed. |

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| --- | --- | --- | --- |
| Use Case ID: | L.009 | | |
| Use Case Name: | Download books | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), Book System |
| Description: | User downloads the content of a particular book in his/her phone. |
| Preconditions: | 1. User has internet connection. 2. User has logged in. 3. User has selected a book. |
| Postconditions: | 1. Book System downloads the content of a particular book in pdf format in user's phone. 2. User is able to read the downloaded books without Internet. |
| Priority: | Medium |
| Frequency of Use: | Once per week |
| Flow of Events: | 1. User chooses a book from the bookshelf or the search bar. 2. Book System displays the "Download" button for the book. 3. User clicks on the "Download" button to download the book. 4. Book System downloads the content of the book in pdf format. 5. The book is stored in the phone. |
| Alternative Flows: | None. |
| Exceptions: | L.009.EX.1: Internet disconnects when user downloads the book.  1. The download stops.  2. The download continues when Internet reconnects and user clicks on "Download" again. |
| Includes: | None. |
| Special Requirements: | 1. Book System must start download within 1 seconds when user clicks on "Download" button. |
| Assumptions: | User should be able to read books without Internet. |
| Notes and Issues: | None. |

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| --- | --- | --- | --- |
| Use Case ID: | L.010 | | |
| Use Case Name: | Update personal bookshelf | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), Book System |
| Description: | User updates his/her personal bookshelf. |
| Preconditions: | 1. User has internet connection. 2. User has logged in. 3. User has added some books on his/her bookshelf. |
| Postconditions: | 1. Book System updates user’s bookshelf information (currently reading and finished reading). 2. Book System places the books on the bookshelf in the rank of most recently read. |
| Priority: | Low |
| Frequency of Use: | Once per day |
| Flow of Events: | 1. User chooses a new book from the bookshelf or the search bar. 2. Book System displays the "Add" button for the book. 3. User clicks on the "Add" button to add the book to the bookshelf. 4. Book System adds the book to user's personal bookshelf. 5. Book System places the newly-added book on the top of his/her bookshelf. |
| Alternative Flows: | L.010.AC.1: User starts reading a book on his/her bookshelf.   1. Book System updates book’s attribute to "Current Reading". 2. Book System displays the attribute "Current Reading" on the book cover. 3. Book System places the "Current Reading" book on the top of his/her bookshelf.   L.010.AC.2: User finishes reading a book on his/her bookshelf.   1. User finishes reading the last page of a book. 2. Book System updates book’s attribute to "Finish Reading". |
| Exceptions: | L.010.EX.1: Internet disconnects when user adds the book.  1. The book are not added to the bookshelf successfully. |
| Includes: | None. |
| Special Requirements: | 1. Book System must add the new book to the personal bookshelf within 1 seconds.  2. Book System must rearrange the order of books on the bookshelf according to the rank of most recently read within 10 seconds. |
| Assumptions: | User has access to the recent added or read books on the top of the bookshelf. |
| Notes and Issues: | None. |

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| --- | --- | --- | --- |
| Use Case ID: | L.011 | | |
| Use Case Name: | Write reviews | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), Book System |
| Description: | User writes his/her reviews on a particular book. |
| Preconditions: | 1. User has internet connection. 2. User has logged in. 3. User has started reading a book. |
| Postconditions: | 1. Book System adds user’s review to the Book's Database. |
| Priority: | Medium |
| Frequency of Use: | Once per 2 days |
| Flow of Events: | 1. User chooses a book to read. 2. Book System displays a "Review" section of the book. 3. User enters his/her reviews on the book in the input box. 4. User clicks on "Submit" button to upload his/her reviews. 5. Book System stores the reviews to Book's Database. 6. Book System displays user’s reviews of the book with username. |
| Alternative Flows: | None. |
| Exceptions: | L.011.EX.1: User does not click on "Submit" button.  1. Book System saves the review automatically every 5 seconds.  2. Book System stores the unfinished reviews to Book's Database.  3. Book System displays user’s reviews of the book with username.  4. User is able to edit it again by User Case L.012. |
| Includes: | None. |
| Special Requirements: | 1. Book System must save the review drafts automatically every 5 seconds.  2. Book System must upload the review to Book's Database within 20 seconds. |
| Assumptions: | User expresses their thoughts after reading books. |
| Notes and Issues: | The frequent saving method is able to store drafts well. |

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| --- | --- | --- | --- |
| Use Case ID: | L.012 | | |
| Use Case Name: | Edit reviews | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), Book System |
| Description: | User edits his/her review on a particular book based on his/her previous review. |
| Preconditions: | 1. This use case is extending use case L.011. 2. User has logged in. 3. User has internet connection. 4. User has started reading a book. 5. User has written his/her review to this book. |
| Postconditions: | 1. Book System store the updated user’s reviews to the Book’s Database. |
| Priority: | Medium |
| Frequency of Use: | Once per 2 days |
| Flow of Events: | 1. User chooses a book that he/she has started reading. 2. Book System displays a "Review" section of the book. 3. User clicks on the "Review" button. 4. User deletes or adds his/her reviews on the book in the input box. 5. User clicks on the "Submit" button to upload the edited vision of review. 6. Book System saves the modified reviews to Book’s Database. 7. Book System displays user’s new reviews. |
| Alternative Flows: | None. |
| Exceptions: | L.012.EX.1: User does not click on "Submit" button.  1. Book System saves the review automatically every 5 seconds.  2. Book System stores the unfinished reviews to Book's Database.  3. Book System displays user’s reviews of the book with username.  4. User is able to edit it again. |
| Includes: | None. |
| Special Requirements: | 1. Book System must save the review drafts automatically every 5 seconds.  2. Book System must upload the review to Book's Database within 20 seconds. |
| Assumptions: | User updates his/her review on the same book. |
| Notes and Issues: | The frequent saving method can well save the drafts of reviews. |

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| --- | --- | --- | --- |
| Use Case ID: | L.013 | | |
| Use Case Name: | Delete reviews | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), Book System |
| Description: | User deletes his/her review on a particular book from the Book's Database. |
| Preconditions: | 1. This Use Case extends Use Case L.011, 2. User has logged in. 3. User has internet connection 4. User has started reading a book. 5. User has written his/her reviews to this book. |
| Postconditions: | 1. Book System deletes user’s reviews from the Book’s Database. |
| Priority: | Medium |
| Frequency of Use: | Once per month |
| Flow of Events: | 1. User chooses a book that he/she has written a review on it. 2. Book System displays a "Review" section of the book. 3. User clicks on the "Review" button. 4. User clicks on the "Delete" button of the review section. 5. Book System deletes user’s review from the Book’s Database. 6. Book System no longer view user’s review on a particular book. |
| Alternative Flows: | None. |
| Exceptions: | L.013.EX.1: User clicks on the "Cancel" button.  1. User cancels the deleting process.  2. The review is stored in the Book's Database. |
| Includes: | None. |
| Special Requirements: | 1. Book System must delete the review from database within 3 seconds. |
| Assumptions: | Some records should be able to be erased. |
| Notes and Issues: | There should be a way to recover the deleted review. |

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| --- | --- | --- | --- |
| Use Case ID: | L.014 | | |
| Use Case Name: | See other users’ review | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), Book System |
| Description: | User looks at other users' reviews on a particular book. |
| Preconditions: | 1. User has logged in. 2. User has internet connection. 3. There are users who have written reviews on some books. |
| Postconditions: | 1. Book System displays all reviews on a particular book |
| Priority: | Medium |
| Frequency of Use: | Once per 2 days |
| Flow of Events: | 1. User chooses a book. 2. Book System displays a "Review" section of the book. 3. User clicks on the "Review" button. 4. Book System displays all reviews made by other users. |
| Alternative Flows: | None. |
| Exceptions: | L.014.EX.1: No reviews made on that particular book.   1. Book System displays label stating there is no review on this book. 2. Book System displays label asking the user to be the first one to review on that particular book. |
| Includes: | None. |
| Special Requirements: | 1. Book System must display all the reviews of a book within 5 seconds. |
| Assumptions: | User is able to view others' thoughts on the book. |
| Notes and Issues: | None. |

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| --- | --- | --- | --- |
| Use Case ID: | L.015 | | |
| Use Case Name: | Add Friends | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), User System |
| Description: | User adds a new friend in Light |
| Preconditions: | 1. User has logged in. 2. User has internet connection. |
| Postconditions: | 1. User System adds new friend to user’s Friend List. |
| Priority: | Low |
| Frequency of Use: | Once per week |
| Flow of Events: | 1. User searches for a friend. 2. User System displays the "Add Friends" button under the information of the friends. 3. User clicks on the "Add Friends" button to add a friend. 4. User System sends a request message of adding a friend to the friend. 5. The friend clicks on "Accepted" button to build friendship between 2 users. 6. User System adds two friends' information to both of their Friend Lists in the User's Database. |
| Alternative Flows: | L.015.AC.1: The friend rejects the request of adding a friend.  1. User System sends the rejection back to user.  2. The friendship is not connected between the two users. |
| Exceptions: | L.015.EX.1: The request does not receive an answer.  1. The friendship is not connected between the two users. |
| Includes: | None. |
| Special Requirements: | 1. User System must send a request of making a friend to another user within 40 seconds.  2. User System must send an answer of making a friend back to user within 40 seconds. |
| Assumptions: | Connection in Light is able to share thoughts on the reading. |
| Notes and Issues: | Friends can be found by connection with Facebook. |

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| --- | --- | --- | --- |
| Use Case ID: | L.016 | | |
| Use Case Name: | View what other users are reading | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| --- | --- |
| Actor: | User (Initiating Actor), User System |
| Description: | User views his/her friends' reading history in Light |
| Preconditions: | 1. User has logged in, 2. User has internet connection. 3. The friend is in user’s Friend List |
| Postconditions: | 1. User System displays user’s friends' reading history |
| Priority: | Low |
| Frequency of Use: | Once per month |
| Flow of Events: | 1. User searches for a friend in his/her Friend List. 2. User System displays the "History" button to display the friend’s reading history. 3. User clicks on the "History" button to view friend’s reading history. 4. User System displays a friend’s reading history to user. |
| Alternative Flows: | None. |
| 1. Exceptions: | L.016.EX.1: User enters a wrong name of his/her friend.  1. User System displays label stating "There is no such friend."  2. User returns to Step 1.  L.016.EX.2: Friend has not read any books in Light.  1. User System displays label stating "No book has been read yet." |
| Includes: | None. |
| Special Requirements: | 1. User System must search a friend's name in the Friend List within 30 seconds.  2. User System must display the reading history of a friend within 5 seconds. |
| Assumptions: | None. |
| Notes and Issues: | None. |

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| Use Case ID: | L.017 | | |
| Use Case Name: | Set initial user’s profile | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| Actor: | User (Initiating Actor), User System |
| Description: | User set his initial profile after registering in Light. |
| Preconditions: | 1. User has registered in Light. 2. User has internet connection. 3. User System has access to Camera or Photo in user's phone. |
| Postconditions: | 1. User System saves user’s initial profile and information in the database. |
| Priority: | Low |
| Frequency of Use: | Once per year. |
| Flow of Events: | 1. User System requests for user’s profile (picture, name, favourite subjects of books and preferred languages). 2. User enters his/her information accordingly in the input box. 3. User System saves user’s profile information in the user database. 4. User System updates user's information to his/her home page. |
| Alternative Flows: | None. |
| Exceptions: | L.017.EX.1: User does not enter all the information needed for a complete profile.  1. User System automatically saves the input information.  2. User System leaves the unfinished information as NULL.  3. User can edit his/her profile later by User Case L.018. |
| Includes: | None. |
| Special Requirements: | 1. User System must upload the user's information within 3 minutes. |
| Assumptions: | User is able to present his/her profile to other users to make friends. |
| Notes and Issues: | Photos can be selected from Camera or local photos. |

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| Use Case ID: | L.018 | | |
| Use Case Name: | Update user’s profile | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| Actor: | User (Initiating Actor), User System |
| Description: | User updates his profile and information to store in the database. |
| Preconditions: | 1. This Use Case extends Use Case L.017 2. User has logged in. 3. User has internet connection. |
| Postconditions: | 1. User System updates user’s profile (picture, name, favourite subjects of books and preferred languages) in Light. |
| Priority: | Low |
| Frequency of Use: | Once per year |
| Flow of Events: | 1. User clicks on the "Edit" button on his/her profile. 2. User System receives requests from user. 3. User updates his/her preferred information on new profile picture, name, favourite subjects and preferred languages. 4. User System updates user’s profile information in the User's Database. 5. User System uploads user's new profile on his/her home page. |
| Alternative Flows: | None. |
| Exceptions: | L.017.EX.1: User does not enter all the information needed for a complete profile.  1. User System automatically saves the input information.  2. User System leaves the unfinished information as NULL.  3. User can edit his/her profile later. |
| Includes: | None. |
| Special Requirements: | 1. User System must upload the user's latest information within 3 minutes. |
| Assumptions: | Personal information needs to be updated. |
| Notes and Issues: | None. |

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| Use Case ID: | L.019 | | |
| Use Case Name: | View trending and recommended books | | |
| Created By: | Jeko Lonardo | Last Updated By: | Zhang Shengjing |
| Date Created: | 30/08/2018 | Date Last Updated: | 12/09/2018 |

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| Actor: | User (Initiating Actor), Book System |
| Description: | User sees the list of trending and recommended books. |
| Preconditions: | 1. User has logged in. 2. User has internet connection. 3. User has selected some preferred books or 4. User has selected his/her preferred subjects. |
| Postconditions: | 1. Book System displays the list of trending and recommended books for user. |
| Priority: | High |
| Frequency of Use: | Twice per day |
| Flow of Events: | 1. User clicks on the "Recommendation" button to view some trending and recommended books. 2. Book System displays some trending and recommended information about books that user will prefer to read according to his/her previous reading history or searching history. |
| Alternative Flows: | L.019.AC.1: User is not interested in recommended books.  1. User closes the recommended lists. |
| Exceptions: | L.019.EX.1: User does not have reading history.  1. Book System recommends the most popular and most downloaded books to user. |
| Includes: | None. |
| Special Requirements: | 1. Book System displays the list of trending and recommended books within 5 minutes. |
| Assumptions: | Recommendation List is able to make user read more on their interested topic. |
| Notes and Issues: | None. |