OurBook+

Use-Case Specification

Version <1.0>

Revision History

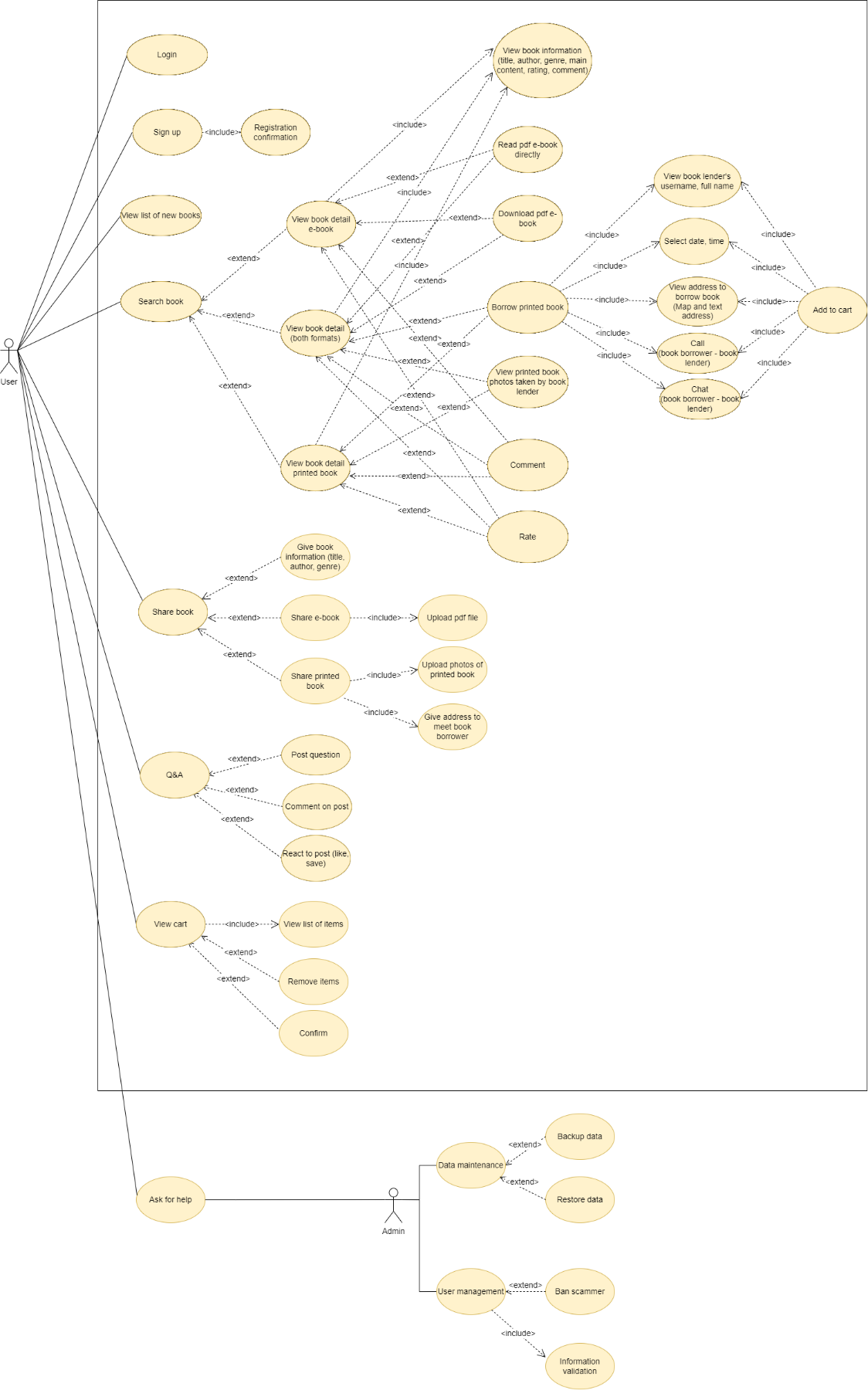
| **Date** | **Version** | **Description** | **Author** |
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| 23/Nov/2022 | 1.0 | **- Kỳ:**  + Use case diagram: view list of new books, search book, share book, Q&A, view cart and related use cases  + Use case specification: view list of new books, borrow printed book, view book lender’s information, select day, time to borrow and return the book, view address to borrow book, call with book lender, chat with book lender, add to cart, share book, give book information, share e-book, upload pdf file, share printed book, give address to meet book borrower, upload 4 photos of the printed book + fix Ask for help use case specification  **- Uyên:**  + Use case diagram: search book, share book, Q&A, view cart and related use cases  + Use case specification: search book, view book detail e-book, view book detail both formats, view book detail printed book, view book information, read pdf, download pdf, View printed book photos taken by book lender, Comment/Rate  **- Minh:**  + Use case diagram: signup, ask for help and related use cases, admin  + Use case specification: signup, ask for help and related use cases, use cases of admin; Q&A, post question, comment on post, react to post  **- Hoàng (not complete):**  + Use case diagram: login, view appointment and related use cases  + Use case specification: login, view appointment and related use cases, view cart, view list of items, remove items, confirm cart | Đinh Mỹ Kỳ  Nguyễn Minh Uyên  Trương Nhật Minh |
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# Use-case Model



# Use-case Specifications

**2.1 Use-case: Sign-up**

| Use case name | **Create a new account** |
| --- | --- |
| Brief description | This use case describes how a user can create a new account |
| Actors | User |
| Basic Flow | 1. At any page, users click the Login button. 2. Click on Signup in the last line 3. User type in full name, email, phone number, username, password. |
| Alternative Flows | **Alternative flow: Logged in user**  If the user is already logged in, this use case will be hidden and the user cannot use it. |
| Pre-conditions | User goes to the homepage. |
| Post-conditions | Users successfully create a new account. |

**2.2 View list of new books**

| Use case Name | **View list of new books** |
| --- | --- |
| Brief description | This use case describes how user can view list of new books at home page |
| Actors | User |
| Basic Flow | 1. At the homepage, user can view list of new books in any formats  2. By clicking on each of the book in this list, user can see the detail of the chosen book. |
| Alternative Flows |  |
| Pre-conditions | User is at the home page |
| Post-conditions | The user can view list of new books and click on each book to view that book’s detail |

**2.3 Use-case: Search book**

| Use case name | Search book |
| --- | --- |
| Brief description | This use-case describes how users can search for books. |
| Actors | User |
| Basic flow | 1. Type in the book's title or book’s author at the search bar. Users may choose to use filters to get a designed format (pdf or printed book) and genre. 2. Instead of using keywords, users may choose format or/and genre to get a list of books. |
| Alternative flows | **Alternative flow: Cannot find the book the user searched:**   Return to screen: “No books found” |
| Pre-conditions | The user must use the “Search book” use-case before. |
| Post-conditions | The user successfully searches for books and the list of books returned satisfies his/her choices and keywords. |

**2.4 Use-case: View book detail ebook**

| Use case name | View book detail ebook |
| --- | --- |
| Brief description | This use-case describes how users can view details of an ebook. |
| Actors | User |
| Basic flow | - The user can see book information  - 2 options: either to read or to download it.  - The user can choose to rate the book, post comments and reply to comments of the books. |
| Alternative flows |  |
| Pre-conditions | The user must click on the book in the list of book results. |
| Post-conditions | The user successfully views the details of the ebook, sees the options and picks his/her options. |

**2.5 View book detail both formats**

| Use case name | View book detail both formats |
| --- | --- |
| Brief description | This use-case describes how users can view details of a book which is available in both format (pdf and printed). |
| Actors | User |
| Basic flow | - The user can see the book information  - 3 options: either to read, download or borrow it.  - He/she can also click on each of the 4 photos to view the photos of printed book taken by book lender.  - The user can choose to rate the book, post comments and reply to comments of the books. |
| Alternative flows |  |
| Pre-conditions | The user must click on the book in the list of book results. |
| Post-conditions | The user successfully views details of the book in both formats, sees the options and picks his/her options. |

**2.6 View book detail printed book**

| Use case name | View book detail printed book |
| --- | --- |
| Brief description | This use-case describes how users can view details of a printed book. |
| Actors | User |
| Basic flow | - The user can see the book information  - 1 option: borrow.  - He/she can also click on each of the 4 photos to view the photos of printed book taken by book lender.  - The user can choose to rate the book, post comments and reply to comments of the books. |
| Alternative flows |  |
| Pre-conditions | The user must click on the book in the list of book results. |
| Post-conditions | The user successfully views details of the printed book, sees the options and picks his/her options. |

**2.7 View book information**

| Use case name | View book information |
| --- | --- |
| Brief description | This use-case describes how users can view information about the book. |
| Actors | User |
| Basic flow | The user can see the book’s cover, title, author(s), main content, and its rating. |
| Alternative flows |  |
| Pre-conditions | The user must click on the book list of book results. |
| Post-conditions | The user successfully views information about the book. |

**2.8 Read pdf**

| Use case name | Read pdf |
| --- | --- |
| Brief description | This use-case describes how users can read a pdf book. |
| Actors | User |
| Basic flow | The user can see the book’s content directly on our website. There are different options to read:  - Read 1 page by 1 page (scroll up/down)  - Read 2 pages at the time + Flip the pages (similar to reading printed book)  - Zoom in, zoom out |
| Alternative flows |  |
| Pre-conditions | The user must click on the option read in view book detail ebook or view book detail both formats. |
| Post-conditions | The user successfully reads the book online. |

**2.9 Download pdf**

| Use case name | Download pdf |
| --- | --- |
| Brief description | This use-case describes how users can download a pdf book. |
| Actors | User |
| Basic flow | The users can download the pdf file of the book to his/her device. |
| Alternative flows |  |
| Pre-conditions | The user must click on the option download in view book detail ebook or view book detail both formats. |
| Post-conditions | The user successfully downloads the book. |

**2.10 View printed book photos taken by book lender**

| Use case name | View printed book photos taken by book lender |
| --- | --- |
| Brief description | This use-case describes how users can view printed book photos taken by the book lender. |
| Actors | User |
| Basic flow | 1. User is viewing detail of printed book or book in both formats. 2. 4 photos: printed book’s cover, content, first page of first chapter, last page of last chapter 3. User clicks next or back to view the next or previous photo in preview mode (small size) 4. User clicks each of the 4 photos to view the chosen photo of printed book taken by book lender in the full size at the center of the screen. 5. User click next/back to view the next/previous photo |
| Alternative flows |  |
| Pre-conditions | - User must in view book detail printed book page or view book detail both formats page to view 4 photos of printed book in small size.  - User must click each of the 4 photos in small size to view these photos in large size at the center of the screen |
| Post-conditions | User successfully sees the photos taken by book lenders |

**2.11 Borrow printed book**

| Use case Name | **Borrow printed book** |
| --- | --- |
| Brief description | This use case describes how user can borrow printed book |
| Actors | User |
| Basic Flow | 1. Click on Search book at the top of the screen → go to Search book page.  2. At the Search book page, user searches for printed books or books in any format  3. Detail of book is shown  4. User clicks on borrow book button. A new page is open with many steps to borrow printed book: book information; select day, time to borrow; address to meet and borrow book; chat, call with book lender; and finally add to cart |
| Alternative Flows | **Alternative flow 1: The book is already in the user’s appointment**  From #4, user cannot make a new appointment (select new days, time) to borrow and return that book until tick done in appointment detail at home page + return the book to book lender after finish reading  User can still see other information but cannot change the appointment detail. |
| Pre-conditions | User is logged in, already viewed detail of printed book or book in both formats |
| Post-conditions | The user can view book detail of printed book, view all necessary information about how to borrow the book and select available day, time for their appointment. |

**2.12 View book lender’s information**

| Use case Name | **View book lender’s information** |
| --- | --- |
| Brief description | This use case describes how the user can view book lender’s information such as full name, username when they want to borrow a book. |
| Actors | User |
| Basic Flow | 1. At this borrow printed book page, user first see the book detail again.  2. Under the book’s detail is book lender’s full name and username. |
| Alternative Flows |  |
| Pre-conditions | User is logged in, already viewed detail of printed book or book in both formats, and is in borrow printed book page |
| Post-conditions | User can see book lender’s full name and username clearly, so it’s easier for user as book borrower to later communicate with book lender via call/chat and meet directly to borrow the book. |

**2.13 Select available days, time to borrow and return the book**

| Use case Name | **Select available days, time to borrow and return the book** |
| --- | --- |
| Brief description | This use case describes how the user can select available day, time to borrow the book |
| Actors | User |
| Basic Flow | 1. At this borrow printed book page, user first see the book detail again.  2. Under the book’s detail is book lender’s full name and username.  3. User can see list of days in calendar.  + Days in red color: someone borrows the book on that day  + Days in white color: available days to borrow  User can only choose day to borrow, day to return the book in the list of white-colored days. These 2 chosen days are colored with blue, and selected dates are also displayed in text.  4. User can see 5 options of time frame: 8AM, 9AM, 10AM, 1PM, 2PM  + Choose time to borrow the book  + Choose time to give back the book  These 2 chosen time frames are colored with orange, and selected times are also displayed in text. |
| Alternative Flows | **Alternative flow 1: User choose days in red color (not available days)**  1. From #3, user choose days in red color  2. The website will alert user that days in red color are not available to borrow  3. If user continue to choose that day to borrow, user will not be able to choose day to return the book and time to borrow, return the book.  4. User cannot borrow that printed book  **Alternative flow 2: User keep changing time to borrow and return the book**  1. From #3, user chooses time to borrow, time to return the book  2. User keeps changing to another time frame. This is permitted if user hasn’t added to cart yet, which means a new time frame is replaced  **Alternative flow 3: The book is in user’s cart but not confirmed yet + user select new days and time to borrow and give back the book**  1. From #3, user select new days, time.  2. New selected days, time will override the previously chosen days, time since user hasn’t confirmed borrowing that book yet.  **Alternative flow 4: The book is already in user’s appointment**  From #3, user cannot make a new appointment to borrow that book until tick done in appointment detail at home page + return the book to book lender after finish reading |
| Pre-conditions | 1. User is logged in  2. User already viewed detail of printed book or book in both formats, and is in borrow printed book page  3. The book is not in user’s appointment yet. |
| Post-conditions | User successfully select days, time frames to borrow and return the book.  Selected days: blue-colored days in calendar + days in text  Selected time: orange-colored time options + time in text |

**2.14 View address to meet book lender**

| Use case Name | **View address to meet book lender** |
| --- | --- |
| Brief description | This use case describes how the user can see the address to borrow book in both text and Google Map |
| Actors | User |
| Basic Flow | 1. At this borrow printed book page, user first see the book detail again.  2. Under the book’s detail is book lender’s full name and username.  3. User can see list of available days in calendar → select day to borrow and return the book  4. User can see 5 options of time frame → select time to borrow and return the book  5. User can see the address to borrow book in text first, and Google Map is displayed under this text (can zoom in, zoom out to show map) |
| Alternative Flows |  |
| Pre-conditions | User is logged in, already viewed detail of printed book or book in both formats, and is in borrow printed book page |
| Post-conditions | User can see the address to meet book lender and borrow in both text and Google Map. User can also zoom in, zoom out map, view map in full size by clicking on the Google Map address to show large map in new tab |

**2.15 Chat (book lender – book borrower)**

| Use case Name | **Chat (book lender – book borrower)** |
| --- | --- |
| Brief description | This use case describes how the user can chat with book lender to ship or ask further information about the book |
| Actors | User |
| Basic Flow | 1. At this borrow printed book page, user first see the book detail again.  2. Under the book’s detail is book lender’s full name and username.  3. User can see list of days in calendar → select day to borrow and return the book  4. User can see 5 options of time frame → select time to borrow and return the book  5. User can see the address to borrow book in text and Google Map  6. Clicking on chat → a chat window is popped up, user can chat with book lender. |
| Alternative Flows |  |
| Pre-conditions | User is logged in, already viewed detail of printed book or book in both formats, and is in borrow printed book page |
| Post-conditions | User can chat with book lender to ship or ask more information about the printed book he/she is going to borrow |

**2.16 Call (book lender – book borrower)**

| Use case Name | **Call (book lender – book borrower)** |
| --- | --- |
| Brief description | This use case describes how the user can chat with book lender to ship or ask further information about the book |
| Actors | User |
| Basic Flow | 1. At this borrow printed book page, user first see the book detail again.  2. Under the book’s detail is book lender’s full name and username.  3. User can see list of days in calendar → select day to borrow and return the book  4. User can see 5 options of time frame → select time to borrow and return the book  5. User can see the address to borrow book in text and Google Map  6. Book lender’s phone number is displayed in text. By clicking on call button  + User uses website on mobile phone: 2 options: ask user to use normal phone call, or call via app such as Zalo, Viber  + User uses website on desktop: ask user to call via any calling application such as Zalo, Viber |
| Alternative Flows | **Alternative flow: User uses website on mobile phone, and there is no calling app in the phone**  From #6, user can only call book lender using normal phone call since there is no calling app in the phone to use |
| Pre-conditions | User is logged in, already viewed detail of printed book or book in both formats, and is in borrow printed book page |
| Post-conditions | User can call book lender to ship or ask more information about the printed book he/she is going to borrow |

**2.17 Add to cart**

| Use case Name | **Add to cart** |
| --- | --- |
| Brief description | This use case describes how the user can add a printed book to cart to borrow |
| Actors | User |
| Basic Flow | 1. At this borrow printed book page, user first see the book detail again.  2. Under the book’s detail is book lender’s full name and username.  3. User can see list of days in calendar → select day to borrow and return the book  4. User can see 5 options of time frame → select time to borrow and return the book  5. User can see the address to borrow book in text and Google Map  6. Book lender’s phone number is displayed in text. By clicking on call button, user can use normal phone call or call via app such as Zalo, Viber.  7. User click on Add to cart button to add a printed book to his/her cart.  8. The website return to the view book detail page. The cart icon at the top right of the screen displays the number of printed book(s) in cart. |
| Alternative Flows | **Alternative flow 1: User’s appointment to borrow this book is invalid**  1. From #3, if user choose invalid days (red-colored days) to borrow / return the book, it’s invalid since someone borrows the book on those days  2. Any time chosen is invalid if days to borrow are invalid  3. The website will alert user to choose days again (choose available days in white color).  4. From #7, if user keeps adding the book to cart without changing days to borrow and return the book, user will not be able to add this book to cart.  **Alternative flow 2: The book is already in user’s appointment**  1. From #3, user choose days and time  2. User cannot make a new appointment and add to cart to borrow that book (step #7) until tick done in appointment detail at home page + return the book to book lender after finish reading  **Alternative flow 3: The book is in user’s cart but not confirmed cart yet + user select new days and time to borrow and give back the book**  1. From #3, user select new days, time.  2. New selected days, time will replace the previously chosen days, time since user hasn’t confirmed borrowing that book yet: show on calendar, time option and text  3. From #7, once user clicks on add to cart, the appointment days and time will be updated.  4. #8: Cart icon displays the number of item(s) in cart  **Alternative flow 4: Cart already had printed book(s)**  1. From #7, the system adds a printed book to list of items in cart if user clicks on Add to art button  2. The number of items in cart displayed at cart icon increases by one. |
| Pre-conditions | 1. User is logged in  2. User already viewed detail of printed book or book in both formats, and is in borrow printed book page  3. The book is not in user’s appointment yet / not in confirmed appointment. |
| Post-conditions | User successfully add a printed book to cart to borrow |

**2.18 Comment**

| Use case name | Comment |
| --- | --- |
| Brief description | This use-case describes how users can give comments and reply to comments of a specific book. |
| Actors | User |
| Basic flow | The user is able to choose whether to post a comment or to reply to a comment.  If choosing to post a comment, then the user has to write a description/thinking about the book. If choosing to reply to comments, the user clicks the reply button of the comment the user wants to reply to.   1. User clicks post comment/ reply, a box appears for the user to fill in. 2. The user enters his/ her opinion 3. The users click post then the comment will be posted. |
| Alternative flows |  |
| Pre-conditions | The user must click on the book in a list of books and choose a comment to comment or choose reply in a specific comment to reply to that comment. |
| Post-conditions | The user successfully posts their comment or reply. |

**2.19 Rate**

| Use case name | Rate |
| --- | --- |
| Brief description | This use-case describes how users can give rating to a specific book. |
| Actors | User |
| Basic flow | The user would have to rate on a scale of 1 to 5 stars. |
| Alternative flows |  |
| Pre-conditions | The user must click on the book in a list of books and then choose to rate. |
| Post-conditions | The user successfully posts their rating. |

**2.20 Share book**

| Use case Name | **Share book** |
| --- | --- |
| Brief description | This use case describes how user shares book to other users. Shared book can be e-book or printed book. User can only share 1 book at a time. |
| Actors | User |
| Basic Flow | 1. Click on Share book at the top of the screen → go to Share book page.  2. At the Share book page, user first give information about the book. Based on selection of book format, user will follow the instruction to share book to other users. |
| Alternative Flows |  |
| Pre-conditions | 1. User is logged in  2. User click on Share book at the top of the screen |
| Post-conditions | The user can prepare to share his/her book following the instruction on screen. |

| Use case Name | **Give book’s information** |
| --- | --- |
| Brief description | This use case describes how user give information about the book that he/she shares |
| Actors | User |
| Basic Flow | 1. At the Share book page, user first type in the book’s title  2. Type in book’s author  3. Choose book’s genre from list of genres  4. A cover photo of this book is automatically generated to later display to all users. |
| Alternative Flows |  |
| Pre-conditions | User is logged in, and at Share book page |
| Post-conditions | User successfully provides book’s information |

**2.21 Share e-book**

| Use case Name | **Share e-book** |
| --- | --- |
| Brief description | This use case describes how the user share e-book |
| Actors | User |
| Basic Flow | 1. At the Share book page, user first type in the book’s title  2. Type in book’s author  3. Choose book’s genre from list of genres  4. A cover photo of this book is automatically generated to later display to all users.  5. 2 options of book format for user to choose: e-book and printed book. Here user must choose e-book to share e-book |
| Alternative Flows | **Alternative flow 1: User choose option to share printed book option instead of e-book (choose wrongly)**  From #5, if choose the wrong option, user is asked to follow instructions of sharing printed book instead of sharing e-book. |
| Pre-conditions | User is logged in, and at Share book page |
| Post-conditions | User successfully choose to share e-book |

**2.22 Share printed book**

| Use case Name | **Share printed book** |
| --- | --- |
| Brief description | This use case describes how user can share printed book |
| Actors | User |
| Basic Flow | 1. At the Share book page, user first type in the book’s title  2. Type in book’s author  3. Choose book’s genre from list of genres  4. A cover photo of this book is automatically generated to later display to all users.  5. 2 options of book format for user to choose: e-book and printed book. Here user must choose printed book to share printed book |
| Alternative Flows | **Alternative flow 1: User choose option to share e-book option instead of printed book (choose wrongly)**  From #5, if choose the wrong option, user is asked to follow instructions of sharing e-book instead of sharing printed book. |
| Pre-conditions | User is logged in, and at Share book page |
| Post-conditions | User successfully choose to share printed book |

**2.23 Upload pdf file**

| Use case Name | **Upload pdf file** |
| --- | --- |
| Brief description | This use case describes how the user can upload pdf file of his/her e-book |
| Actors | User |
| Basic Flow | 1. At the Share book page, user first type in the book’s title  2. Type in book’s author  3. Choose book’s genre from list of genres  4. A cover photo of this book is automatically generated to later display to all users.  5. 2 options of book format for user to choose: e-book and printed book. Here user must choose e-book to share e-book  6. Click on Choose pdf file button →Browse files in user’s device  7. Click on Upload button → The progress bar will show whether the file is uploaded fully.  If successfully → Show complete message. |
| Alternative Flows | **Alternative flow 1: Pdf file of e-book is not uploaded successfully**  From #7, if pdf file cannot be uploaded, it will show error message |
| Pre-conditions | 1. User is logged in  2. User is at Share book page  3. User must choose to share e-book |
| Post-conditions | The user successfully upload pdf file of e-book to share that e-book to other users. |

**2.24 Upload photos of printed book**

| Use case Name | **Upload photos of printed book** |
| --- | --- |
| Brief description | This use case describes how user can upload photos of printed book for other users to preview when they see the book’s detail |
| Actors | User |
| Basic Flow | 1. At the Share book page, user first type in the book’s title  2. Type in book’s author  3. Choose book’s genre from list of genres  4. A cover photo of this book is automatically generated to later display to all users.  5. 2 options of book format for user to choose: e-book and printed book. Here user must choose printed book to share printed book  6. There are 4 photos (represented in 4 cards) need to taken and uploaded by user: cover photo, main content page, first page of first chapter, last page of last chapter  By clicking on each card, user uploads the corresponding required photo. After the photo is uploaded, the card will be replaced with photo of the uploaded photo. |
| Alternative Flows | **Alternative flow 1: User changes one of the photos (reupload the photo)**  1. From #6, if user already uploaded the photo for corresponding requirement and wants to change the photo, user can click on that photo again to browse file and choose another photo.  2. If a new photo is chosen, the card is replaced with this new photo, which means the system will take the new photo instead of the previously chosen photo. |
| Pre-conditions | 1. User is logged in  2. User is at Share book page  3. User must choose to share printed book |
| Post-conditions | The user successfully adds 4 photos of printed book. These photos will be later viewed by other users who are interested in the book. |

**2.25 Give address to meet book borrower**

| Use case Name | **Give address to meet book borrower** |
| --- | --- |
| Brief description | This use case describes how user give address to meet book borrower. This address is not necessarily the user’s home address but can be anywhere to meet and give book to borrower conveniently. The address must be typed in. |
| Actors | User |
| Basic Flow | 1. At the Share book page, user first type in the book’s title  2. Type in book’s author  3. Choose book’s genre from list of genres  4. A cover photo of this book is automatically generated to later display to all users.  5. 2 options of book format for user to choose: e-book and printed book. Here user must choose printed book to share printed book  6. User needs to take 4 photos of printed book as requirement and uploads them.  7. User types in the address to meet book borrower. This can be any address to give book to borrower conveniently. |
| Alternative Flows |  |
| Pre-conditions | 1. User is logged in  2. User is at Share book page  3. User must choose to share printed book |
| Post-conditions | The user successfully gives address to meet book borrower. This address will be later viewed by users who want to borrow the book when they are in borrow printed book page. |

**2.26 Use-case: Q&A**

| Use case name | Q&A |
| --- | --- |
| Brief description | This use case describes how users can interact with others. |
| Actors | User |
| Basic Flow | 1. At any page, users click the “Q&A” button. 2. Users choose 1 of the options. |
| Alternative Flows |  |
| Pre-conditions | User must logged in |
| Post-conditions | Users successfully choose their options. |

**2.27 Use-case: Post question**

| Use case name | Give question |
| --- | --- |
| Brief description | This use case describes how users can give questions. |
| Actors | User |
| Basic Flow | 1. At the Q&A screen, the user clicks the “give questions” option. 2. Users give questions to the lender or lended book’s owner. |
| Alternative Flows |  |
| Pre-conditions | Users must use the “Q&A” use case before. |
| Post-conditions | Users successfully give questions. |

**2.28 Use-case: Comment on post**

| Use case name | Comment on post |
| --- | --- |
| Brief description | This use case describes how users can post comments. |
| Actors | User |
| Basic Flow | 1. At the Q&A screen, the user clicks the “post comments” option. 2. Users comment on post |
| Alternative Flows |  |
| Pre-conditions | Users must use the “Q&A” use case before. |
| Post-conditions | Users successfully post comments. |

**2.29 Use-case: React to post (like, save)**

| Use case name | React to post |
| --- | --- |
| Brief description | This use case describes how users react to post (like, save post) |
| Actors | User |
| Basic Flow | 1. At the Q&A screen, the user clicks the “post comments” option. 2. Users react to post |
| Alternative Flows |  |
| Pre-conditions | Users must use the “Q&A” use case before. |
| Post-conditions | Users successfully react to post |

**2.30 Use-case: Ask for help**

| Use case name | Ask for help |
| --- | --- |
| Brief description | This use case describes how users can chat with admin to ask for how to use different features if they get stuck. Admin also uses this feature to chat and assist users. |
| Actors | Admin, User |
| Basic Flow | At the bottom right of all screens, user can click on Ask for help to open the chat window and chat with admin. |
| Alternative Flows |  |
| Pre-conditions | User is in any page |
| Post-conditions | Users successfully get answers from admin. Admin can assist users. |

**2.31 Use-case: Data maintenance**

| Use case name | Data maintenance |
| --- | --- |
| Brief description | This use case describes how admin can maintain data |
| Actors | Admin |
| Basic Flow | Admin click on the data maintenance button in the admin's homepage. |
| Alternative Flows |  |
| Pre-conditions | Admin must be logged in and at the admin’s homepage. |
| Post-conditions | Admin choose between 2 options: backup and restore. |

**2.32 Use-case: Backup data**

| Use case name | Backup data |
| --- | --- |
| Brief description | This use case describes how admin can backup data |
| Actors | Admin |
| Basic Flow | Admin creates a backup for the current book’s data. |
| Alternative Flows |  |
| Pre-conditions | Admin must be at the data maintenance page. |
| Post-conditions | Admin successfully backup data. |

**2.33 Use-case: Restore data**

| Use case name | Restore data |
| --- | --- |
| Brief description | This use case describes how admin can restore data |
| Actors | Admin |
| Basic Flow | Admin restore data using a backup file. |
| Alternative Flows |  |
| Pre-conditions | Admin must be at the data maintenance page. |
| Post-conditions | Admin successfully restore data. |

**2.34 Use-case: User management**

| Use case name | User management |
| --- | --- |
| Brief description | This use case describes how admin manages users. |
| Actors | Admin |
| Basic Flow | At the admin’s homepage, admin clicks on the user management button. |
| Alternative Flows |  |
| Pre-conditions | Admin must be at the admin’s homepage. |
| Post-conditions | Admin successfully goes into the user management page. |

**2.35 Use-case: Ban scammer**

| Use case name | Ban scammer |
| --- | --- |
| Brief description | This use case describes how the admin can ban scammers. |
| Actors | Admin |
| Basic Flow | At the admin’s user management page, click on the ban users button. |
| Alternative Flows |  |
| Pre-conditions | Admin must be at the user’s management page. |
| Post-conditions | Admin successfully bans a user. |

**2.36 Use-case: Information validation**

| Use case name | Information validation. |
| --- | --- |
| Brief description | This use case describes how admin validates a user’s information. |
| Actors | Admin |
| Basic Flow | 1. At the admin’s user management page, click on the user list. 2. Click on a user to see their information. 3. Validate their information. 4. If it’s wrong, require user to update their information. |
| Alternative Flows |  |
| Pre-conditions | Admin must be at the admin’s user management page. |
| Post-conditions | Admin successfully validates user’s information. |