BookHouse

Use-Case Specification

Version <1.0>

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Revision History

| **Date** | **Version** | **Description** | **Author** |
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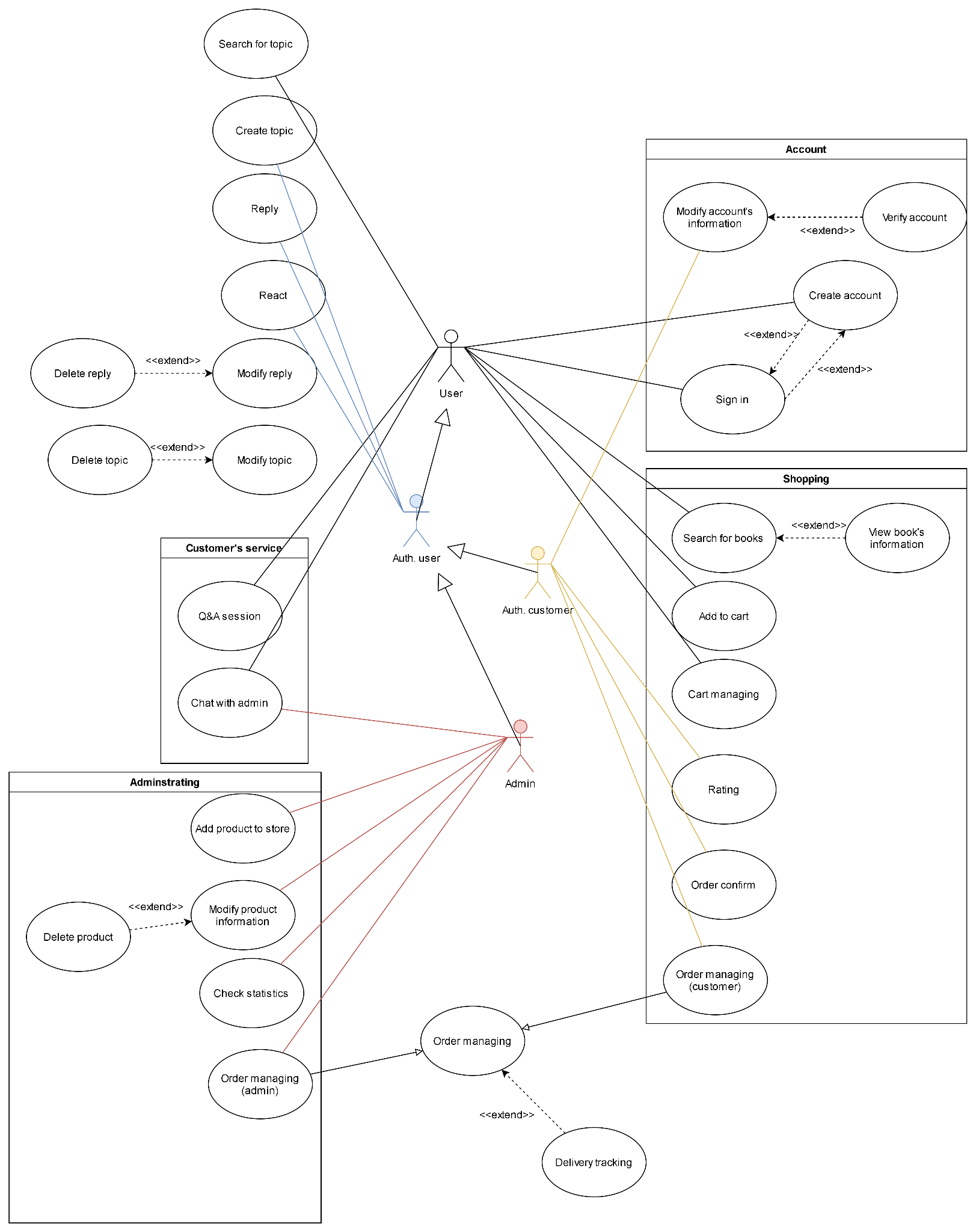
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# Use-case Model

* This is the link to the diagram if you want to see it more clearly: [usecases.drawio - diagrams.net](https://app.diagrams.net/#G1rlPwB5lrPe31NYkbJoO_M49wjFWuHBRc)



# Use-case Specifications

## Use-case: Create an account

| Use case Name | Create account. |
| --- | --- |
| Brief description | This use case describes how the Customer can create an account. |
| Actors | Customer |
| Basic Flow | 1. At the homepage, the user clicks on the sign-up button. 2. User fills in information to the form and submit. 3. The system displays the success message and sends verifying email or message at the same time. |
| Alternative Flows | **Alternative flow 1: Users enters invalid input**   1. From #2 of the basic flow, users enter invalid input. 2. The system displays messages on where the user needs to enter again. 3. Continue #2 of this flow until all fields in the form are valid. 4. Continue from #3 of the basic flow. |
| Pre-conditions | User goes to the homepage at ... |
| Post-conditions | The system displays a success message and goes back to the homepage after a few seconds. |

## Use-case: Sign in

| Use case Name | Sign in. |
| --- | --- |
| Brief description | This use case describes how the Customer and admin log-in to account |
| Actors | Customer, admin |
| Basic Flow | 1. At the homepage, the user clicks on the sign in button. 2. The screen for sign-in is displayed, user fills in username and password. 3. Back to the homepage, the user got into the account. |
| Alternative Flows | **Alternative flow 1: Users enters wrong username or password**   1. From #2 of the basic flow, users enter wrong username or password. 2. System displays messages to notify that the username or password is invalid. 3. Back to #2 of the basic flow. |
| Pre-conditions | User goes to the homepage at ... |
| Post-conditions | Back to the homepage, the user got into the account. |

## Use-case: Modify account’s information

| Use case Name | Modify account’s information |
| --- | --- |
| Brief description | This use case describes how the Customer can modify the information of the personal account. |
| Actors | Customer |
| Basic Flow | 1. At the homepage, the user clicks on the **avatar image button** or the **user name text view**. 2. User fills in information to the form and submit. 3. System displays the success changing message, saves to the database and updates the information of the account. |
| Alternative Flows | **Alternative flow 1: Users enters invalid input**   1. From #2 of the basic flow, users enter invalid information input. 2. System displays messages on where the user needs to enter again. 3. Continue #2 of this flow until all fields in the form are valid. 4. Continue from #3 of the basic flow.   **Alternative flow 2: Reload or terminate page before submitting**   1. Display notification message box to choose leave page or stay page. 2. If the user leaves the page, the profile will hold the latest version before submitting. |
| Pre-conditions | User goes to the profile page at ... |
| Post-conditions | System displays a success message and goes back to the profile page after a few seconds. |

## Use-case: Searching

| Use case Name | Searching |
| --- | --- |
| Brief description | This use case describes how to search for a specific product. |
| Actors | Customer |
| Basic Flow | 1. At the homepage, the user clicks on the searching input. 2. User fills in information (keyword) in the input. 3. The system displays the book’s information. |
| Alternative Flows | **Alternative flow 1: Users enters invalid input**   1. From #2 of the basic flow, users enter invalid input. 2. The system displays messages on where the user needs to enter again. 3. Continue #2 of this flow until all fields in the form are valid.   **Alternative flow 2: The query didn’t return any result**   1. Display notification message for the customer. |
| Pre-conditions | User goes to the homepage. |
| Post-conditions | The system displays the book’s information to satisfy the query. |

## Use-case: Add to cart

| Use case Name | Add to cart |
| --- | --- |
| Brief description | This use case describes how the Customer add products to cart |
| Actors | Customer |
| Basic Flow | 1. At the screen of the product, the user chooses the number of products and clicks on the “Add to cart” button. 2. The message “Add to cart successfully” is displayed. |
| Alternative Flows | **Alternative flow 1: Out of stock**  After #1, the system will check whether the number of products that customers add to the cart is in stock, if not, the system will display the message “Out of stock” |
| Pre-conditions | The screen of the product. |
| Post-conditions | System displays a success message and goes back to the screen of products. |

## Use-case: Rating

| Use case Name | Rating. |
| --- | --- |
| Brief description | This use case describes how a customer can rate a product they bought. |
| Actors | Customer. |
| Basic Flow | 1. From the product information page, users click on the “add rating” button. 2. The customer chooses a rating, adds a comment (optional), and clicks submit. 3. The system adds the rating to the rating session. |
| Alternative Flows | **Alternative flow 1: Users enters invalid input**   1. From #2 of the basic flow, users enter invalid input. 2. The system displays messages on where the user needs to enter again. 3. Continue #2 of this flow until all fields in the form are valid.   **Alternative flow 2: User cancel rating**   1. From #2 of the basic flow, the user clicks on the “X” button. 2. The rating window closes. |
| Pre-conditions | The user signed in, user bought the product, and received the product |
| Post-conditions | The rating is displayed in the product page if the user submitted the form. |

## Use-case: Add product to store

| Use case Name | Add product. |
| --- | --- |
| Brief description | This use case describes how the Admin can add a product to the cart. |
| Actors | Admin. |
| Basic Flow | 1. At the homepage, the admin clicks on the **add\_product button**. 2. Admin adds more products and information to the form. 3. The system displays the adding success message after storing the product in the database. |
| Alternative Flows | **Alternative flow 1: Users enters invalid input**   1. From #2 of the basic flow, the admin enters invalid input. 2. The system displays messages on where the admin needs to enter again. 3. Continue #2 of this flow until all fields in the form are valid.   **Alternative flow 2:**   1. Can’t store product information in the database. 2. Show error message to the customer. 3. Return to the #2 flow. |
| Pre-conditions | The user goes to the homepage of the admin. |
| Post-conditions | The system displays a success message and shows a back button to the admin’s homepage. |

## Use-case: Modify product information

| Use case Name | Modify product information. |
| --- | --- |
| Brief description | This use case describes how the Admin can modify the information of the product. |
| Actors | Admin |
| Basic Flow | 1. At the homepage, the user clicks on the **modify\_product button**. 2. The user chooses the product that needs to be modified. 3. User fills in information to the form and submit. 4. The system displays the success message, saves it to the database, and updates the information of the product. |
| Alternative Flows | **Alternative flow 1: Users enters invalid input**   1. From #3 of the basic flow, users enter invalid information. 2. The system displays messages on where the user needs to enter again. 3. Continue #2 of this flow until all fields in the form are valid. 4. Continue from #3 of the basic flow. |
| Pre-conditions | The user goes to the product page at ... |
| Post-conditions | The system displays a success message and goes back to the product page after a few seconds. |

## Use-case: Delete product

| Use case Name | Delete account. |
| --- | --- |
| Brief description | This use case describes how the Admin can delete a product of the store. |
| Actors | Admin |
| Basic Flow | 1. At the product page, the user clicks on the delete product button next to the product view frame. 2. The system displays the verification message with 2 options: accept or not accept. 3. If the user chooses the accept option, the system displays the success message and deletes the product. 4. If the user chooses the not accept option, the system will come back to the product page. |
| Alternative Flows | **Alternative flow 1: Interrupted Internet Connection**   1. From #3 of the basic flow, the Internet connection is interrupted. 2. The system displays the problem messages on the top of the product page. 3. The system recovers the latest version of the log of the database, undo the uncompleted transition and redo the completed transition to the affected database. 4. Return to the product page. |
| Pre-conditions | The user goes to the product page at ... |
| Post-conditions | System displays a success message and goes back to the product page after a few seconds. |

## Use-case: Check statistics

| Use case Name | Check statistics. |
| --- | --- |
| Brief description | This use case describes how the Admin can check the statistics of the store. |
| Actors | Admin |
| Basic Flow | 1. At the homepage, the user clicks on the **statistics button**. 2. The user chooses what statistics to see. 3. The system displays the statistics. |
| Alternative Flows | **None** |
| Pre-conditions | The user is an Admin and signed in. |
| Post-conditions | The system displays the statistics. |

## Use-case: Order confirm (customer)

| Use case Name | Order confirm (customer) |
| --- | --- |
| Brief description | This use case describes how the customer can delete a product of the store. |
| Actors | Admin |
| Basic Flow | 1. At the product page, the user clicks on the delete product button next to the product view frame. 2. The system displays the verification message with 2 options: accept or not accept. 3. If the user chooses the accept option, the system displays the success message and deletes the product. 4. If the user chooses the not accept option, the system will come back to the product page. |
| Alternative Flows | **None** |
| Pre-conditions | The user goes to the product page at ... |
| Post-conditions | The system displays a success message and goes back to the product page after a few seconds. |