
ALT+F4

**Read & Relay
Use-Case Specification**

Version 1.0

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Revision History

Date	Version	Description	Author
13/11/23	1.0	First version of the Use-case Specification Document	Entire team

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1. Use-case Model



2. Use-case Specifications

2.1 Use-case: Login

Use-case Name	Login
Brief description	This use-case describes when the user wants to log into the platform. Its primary purpose is to authenticate users and ensure that only authorized individuals can interact with the platform's resources via user credentials (email and password).
Actors	Book buyer, book seller
Basic Flow	<ol style="list-style-type: none"> 1. User navigates to the application's login page. 2. System presents the login form, requesting username and password. 3. User enters valid credentials (username and password). 4. The user presses the “Login” button to submit the credentials. 5. The system verifies the validity of user information

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	6. The user is redirected to the home page.
Alternative Flows	Alternative flow 1: Invalid Credentials <ol style="list-style-type: none"> 1. The system notifies the user and the user is prompted to re-enter the correct username and password. 2. Continue step 4 in the basic flow.
Pre-conditions	<ol style="list-style-type: none"> 1. The user has not logged in, and goes to the login page from the navigation bar. 2. The user has a valid account in the system
Post-conditions	The user successfully logs into the platform.

2.2 Use-case: Create a new account

Use-case Name	Create a new account
Brief description	This use-case describes how the user can create a new account to access the platform's main features—buying and selling books, as well as saving information on favorite books and book reviews.
Actors	Book buyer, book seller
Basic Flow	<ol style="list-style-type: none"> 1. At the signup page, the system requires the user to enter information for the new account (email address, password, full name, etc.). 2. The system verifies the validity of user information. 3. The system creates the user account. 4. The user is taken to the home page.
Alternative Flows	Alternative flow 1: The email address the user entered is already in use. <ol style="list-style-type: none"> 1. In the step 2, the provided email address is already registered, the system notifies the user. 2. Users are prompted to use a different email address or attempt to log in if they forgot their password. 3. Continue step 2 in the basic flow Alternative flow 2: The password confirmation does not match the password. <ol style="list-style-type: none"> 1. In step 3, if the password and password confirmation do not match, the system notifies the user. 2. User is prompted to re-enter the password and password confirmation. 3. User corrects the password and password confirmation. 4. Continue step 2 in basic flow
Pre-conditions	The user has not logged in, and visits the signup link from the login page.
Post-conditions	The user successfully creates an account and its profile.

2.3 Use-case: Like books

Use-case Name	Like books
Brief description	This use-case describes how the user can “like” a book (adding it to the Favorite section of their profile).
Actors	Book buyer
Basic Flow	<ol style="list-style-type: none"> 1. At the details page of a specific book, the user presses “Like” for that book. 2. The system adds the book to the user's Favorite section.

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Alternative Flows	None
Pre-conditions	The user is viewing a book's detail.
Post-conditions	The user successfully adds the book to the Favorite section of their profile.

2.4 Use-case: Review books

Use-case Name	Review books
Brief description	This use-case describes how the user can write reviews for books. (Note: Book reviews only concern the content of the book for buying considerations, not the physical quality of the book)
Actors	Book buyer
Basic Flow	<ol style="list-style-type: none"> At the details page of a specific book, the user writes their review into the Review field and presses Submit. The system adds the review into the Reviews section of the book's detail page.
Alternative Flows	None
Pre-conditions	The user is viewing a book's detail.
Post-conditions	The user successfully reviews a book.

2.5 Use-case: Delete items

Use-case Name	Delete items
Brief description	This use-case describes how the user can delete items from the cart.
Actors	Book buyer
Basic Flow	<ol style="list-style-type: none"> User accesses the cart to view their items. User chooses the item they wish to remove by selecting the corresponding checkbox. The system removes selected items and updates the display. User receives confirmation; can continue shopping or proceed to checkout.
Alternative Flows	None
Pre-conditions	<ol style="list-style-type: none"> Items exist in the cart. User already logs in.. Valid items selected (cannot remove with no item selected).
Post-conditions	<ol style="list-style-type: none"> Visual confirmation. Update cart.

2.6 Use-case: Add items

Use-case Name	Add items
Brief description	This use-case describes how the user can add items from the cart.
Actors	Book buyer
Basic Flow	<ol style="list-style-type: none"> User chooses the item to access items pages. User clicks on the "Add to Cart" button associated with the selected product. User has the option to adjust the quantity of the selected item in the cart.

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	4. The system updates the cart icon or provides a visual cue to indicate that the product has been added.
Alternative Flows	Alternative flow 1: Out-of-Stock item <ol style="list-style-type: none"> In step 2, if an item is out of stock, the system notifies the customer. Customers can choose a replacement item, remove the out-of-stock item, or cancel the addition of items to the cart.
Pre-conditions	<ol style="list-style-type: none"> Items are in-stock. User already logs in.
Post-conditions	<ol style="list-style-type: none"> Visual confirmation. Update cart.

2.7 Use-case: Edit cart

Use-case Name	Edit cart
Brief description	Enable users to perform actions such as adding, removing items from the shopping cart, and updating quantities with flexibility.
Actors	Book buyer
Basic Flow	<ol style="list-style-type: none"> User accesses the cart to view their items. Users can modify the quantity of a product in the cart using the increase/decrease buttons or enter the requirements for items or add/remove items in the cart. The system updates the cart and sends confirmation.
Alternative Flows	Alternative flow 1: The user wants to increase the quantity of an item but it is out of stock <ol style="list-style-type: none"> In step 2, if an item is out of stock, the system notifies the customer. The user edits the quantity of the product again. Continue step 3 in the basic flow.
Pre-conditions	<ol style="list-style-type: none"> Items are in-stock. User already logs in.
Post-conditions	<ol style="list-style-type: none"> Visual confirmation. Update cart.

2.8 Use-case: Filter Searches

Use-case Name	Filter Searches
Brief description	This use case describes the process of a user applying filters to refine search results.
Actors	Book buyer
Basic Flow	<ol style="list-style-type: none"> The user employs the search bar to input the product name. The user selects the filter icon. The user chooses the filter tag to apply.
Alternative Flows	None
Pre-conditions	<ol style="list-style-type: none"> The user is required to initiate a search. The results of the search must constitute a list that is not empty.
Post-conditions	Search results are updated based on the applied filters.

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2.9 Use-case: Checkout

Use-case Name	Checkout
Brief description	This use case describes the process of a customer completing the purchase of selected items
Actors	Book buyer
Basic Flow	<ol style="list-style-type: none"> 1. The user thoroughly reviews all products in their cart. 2. The user selects the desired products for their order. 3. The user presses “Buy” to create an order.
Alternative Flows	None
Pre-conditions	The user has items in their shopping cart.
Post-conditions	The user successfully checks out their cart.

2.10 Use-case: Payment

Use-case Name	Payment
Brief description	This use case outlines the process of a customer making a payment for an order.
Actors	Book buyer
Basic Flow	<ol style="list-style-type: none"> 1. The system calculates the total order cost, including taxes and shipping fees. 2. The user selects a payment method (e.g., credit card, PayPal). 3. The system redirects to the Payment Gateway for payment processing. 4. Payment Gateway securely processes the payment information. 5. Payment Gateway sends a confirmation to the system. 6. The system records the payment and updates the order status.
Alternative Flows	Alternative flow 1: Payment Failure <ol style="list-style-type: none"> 1. System notifies the customer about the failed payment and prompts for an alternative payment method. 2. If the user choose another payment method, continue step 4 in basic flow
Pre-conditions	<ol style="list-style-type: none"> 1. Customers have items in their shopping cart. 2. Customers have reviewed and confirmed the order. 3. The system has calculated the total order cost, including taxes and shipping.
Post-conditions	<ol style="list-style-type: none"> 1. Payment is successfully processed. 2. Order Processing System records the payment. 3. Order status is updated

2.11 Use-case: Send Order

Use-case Name	Send Order
Brief description	Enable users to buy products in cart by sending a buying order to the sellers.
Actors	Book buyer
Basic Flow	<ol style="list-style-type: none"> 1. The user confirms all the products in the order. 2. The user presses “Send Order” to submit the order. 3. The system sends the buying order to the seller.

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Alternative Flows	Alternative flow 1: The user want to cancel the order 1. In step 1, if the user does not want to accept orders anymore, they can navigate back to the checkout screen and take other actions.
Pre-conditions	1. Customers are logged into the online shopping system. 2. The customer has successfully completed the checkout process and selected the payment method.
Post-conditions	Order is processed and recorded in the system.

2.12 Use-case: Post Products

Use-case Name	Post Products
Brief description	This use case describes the process of a seller posting a new product for sale.
Actors	Book seller
Basic Flow	<ol style="list-style-type: none"> 1. The user navigates to the "Post Product" section. 2. The user provides details about the product, including title, description, category, images and price. 3. The user reviews the provided information and images. 4. The user clicks the "Post Product" button. 5. The system validates the provided information. 6. The product becomes visible in product listings.
Alternative Flows	Alternative flow 1: Incomplete Information <ol style="list-style-type: none"> 1. In step 4, if the provided information is incomplete or incorrect, the system notifies the seller. 2. Seller is prompted to provide the missing or correct information before proceeding. 3. If the provided information is valid, continue step 6 in basic flow
Pre-conditions	The user already logged into the website
Post-conditions	The new product is listed on the website

2.13 Use-case: Browse books

Use-case Name	Browse books
Brief description	This use case describes the process of a user viewing a list of all available products on the platform.
Actors	Book buyer
Basic Flow	<ol style="list-style-type: none"> 1. The user navigates to the "View All Products" section. 2. The system retrieves and displays a paginated list of available products from the Database. 3. The user scrolls through the list of products. 4. The user can click on a specific product to view more details.
Alternative Flows	None
Pre-conditions	The user is in the "View All Products" section of the platform.
Post-conditions	The user is presented with a comprehensive list of all available products.