Book Alley

Use-Case Specification: Browse books

Version 2.0

Revision History

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Use-Case Specification: Browse books

# Use-Case Name

## Brief Description

The browse book use case for Book Alley enables users to explore a wide range of book available on the website, view details information and purchase the book that they like

# Flow of Events

## Basic Flow

1. The user is presented with the home page
2. The system retrieves a list of available books from the database and displays them including their titles, authors, and covers.
3. The user can scroll through the list of book to explore more
4. The user can apply filters (e.g., by genre, author, price) to narrow down the book selection.
5. The user can select a specific book to view its detail
6. The user is presented with options to continue shopping or proceed to checkout.

## Alternative Flows

### Unauthenticated user access

1. If the user is not authenticated, they can still browse books but may have limited functionality (e.g., unable to add to cart or wish list until they log in).

### Sorting and filtering

1. The user presented with the homepage
2. The user can choose the genre filter at the left bar and the Newest/Oldest filter on the top to look for book that they want

# Special Requirements

## Multi-language support

* Ensure that the multi-language support covers not only the book metadata but also the user interface, including buttons, labels, and error messages.
* Allow users to easily switch between languages without losing their current session or applied filters.

## Accessibility

* Comply with accessibility standards such as WCAG (Web Content Accessibility Guidelines) to make the website accessible to users with disabilities.
* Include features such as alternative text for images, keyboard navigation, and screen reader compatibility.

## Performance

* Implement image optimization techniques to reduce load times without compromising quality.
* Use lazy loading for images and prioritize the loading of essential content first.

## Security

* Implement HTTPS to secure data transmission between the user's device and the server.
* Encrypt sensitive user information, such as passwords and payment details, using industry-standard encryption algorithms.
* Regularly update and patch server software to address potential security vulnerabilities.

## Regular backup

* Schedule automated regular backups of both book data and user preferences.
* Store backups in a secure location, separate from the production environment, to ensure data recovery in the event of system failures or data loss.

# Preconditions

## Internet connectivity

* The user's device should have a working internet connection to access the website

## User authentication

* Provide secure login mechanisms, such as two-factor authentication, to enhance the protection of user accounts.
* Implement account recovery processes, such as email verification or security questions, to assist users in regaining access to their accounts if needed.

## Previous user interaction

* If the users have previously interacted with the website (e.g browsing, purchasing) then the website can generate personalized recommendations.

## Product availability

* Regularly update the inventory to ensure that all books displayed are in stock and available for purchase.
* Implement a system to temporarily remove or mark books as "out of stock" when necessary, providing accurate information to users.

## No conflicting processes

* The user has not already initiated a different process within the website that conflicts with the browsing functionality (e.g., placing an order, viewing order history, accessing account settings).

## No error

* Conduct regular usability testing to identify and address potential sources of errors, ensuring a smooth and error-free browsing experience.
* Implement effective error handling mechanisms, providing informative error messages and guidance on how users can resolve issues when they occur.

# Postconditions

## Filtered book list display

* Provide the user with options to further refine or modify the applied filters directly from the displayed book list, allowing for dynamic adjustments without returning to the main filter selection page.

## User preferences retention

* Enable users to customize and manage their saved preferences, ensuring a seamless experience across different sessions and devices.
* Provide an option for users to export or import their preferences, making it convenient for them to replicate their personalized settings on multiple devices or after clearing browser data.

## Successful book details view

* Include intuitive navigation options on the book details page, allowing users to easily return to the previous list of books or explore related content.
* Implement a "Recently Viewed" section to help users revisit books they have previously clicked on, encouraging them to continue exploring the website.

## Direct interaction options

* Provide visual confirmation when a user adds a book to their shopping cart or wish list, reinforcing the successful execution of the action.
* Enable users to manage their shopping cart and wishlist directly from the browse page, allowing them to review or modify their selections without navigating away.

## Product tags displayed

* If the user view the books detail then the tags of that books are displayed and the user can click on those tags to view other books with the same tag

## Activity logging

* Enhance user engagement by incorporating a feature that dynamically updates tag suggestions based on the user's browsing history and preferences.
* Allow users to customize their tag preferences, enabling them to prioritize certain tags or exclude others from their recommendations.

# Extension Points

## Review and rating

* Allow users that have bought the book to provide reviews and ratings to enable other users to make an informed decision based on those reviews
* Implement a comment section within reviews to allow users to engage in discussions about specific aspects of the book, fostering a sense of community and providing additional context to potential buyers.

## Personalized recommendation

* Implement an algorithm for personalized book recommendations to enhance user experience by suggesting books based on browsing history and preferences.

## Social media integration

* Enable users to create and share curated lists of their favorite books, allowing them to showcase their reading preferences and recommendations to their social network.
* Implement social login options, making it easy for users to connect their social media accounts to their profile on the platform, streamlining the sharing process.

## Book preview

* Integrate a feature that allows users to bookmark the last page they read during a book preview, providing a seamless transition to the full version of the book if they decide to purchase.
* Implement a feedback mechanism for users to rate the quality and length of book previews, helping publishers and authors understand what users find most valuable in making a purchase decision.