Book Alley

Use-Case Specification: Manage books

Version 2.0

Revision History

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
| 14/11/2023 | 1.0 | Initial | Dang Ha Huy |
| 17/11/2023 | 2.0 | Review | Dang Ha Huy |
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Use-Case Specification: Manage books

# Use-Case Name

## Brief Description

The manage books use case in Book Alley enables sellers to manage their books inventory such as add new book to sell, update information of their current book

# Flow of Events

## Basic Flow

1. The seller logs into the e-commerce website using their credentials.
2. Upon successful login, the seller is directed to their dashboard.
3. The seller can view their current inventory of books in the product page.
4. Seller selects the option to add a new book or update current books in the inventory.
5. If the seller chooses the option to add a new book the seller enters book details (title, author, translator, price, etc.).
6. The seller submits the information to add the book to their inventory.
7. If the seller chooses the option to update current books then the seller selects a book from their inventory.
8. Edits details such as price, quantity, or other relevant information.
9. Submits the changes to update the book details.

## Alternative Flows

### Invalid login

1. If the seller enters invalid credentials, an error message is displayed.
2. The seller is prompted to enter valid login details.

### Book information error

1. If there are errors in the book information entered during addition or update, the system displays an error message.
2. The seller is prompted to correct the errors before submitting the information.

### Out of stock

1. If the seller tries to update the quantity of a book to a value that exceeds the available stock, an error message is displayed.
2. The seller is prompted to enter a valid quantity.

### Confirmation book removal

1. When the seller chooses to remove a book, a confirmation prompt is displayed.
2. The seller must confirm the removal to prevent accidental deletions.

# Special Requirements

## Security measures

* Implement robust authentication and authorization mechanisms to ensure that only authorized sellers can access and manage their book inventory securely. This includes secure login processes and controlled access to sensitive information.

## Backup and recovery protocols

* Establish regular data backup procedures for the book inventory to mitigate the risk of data loss due to system failures. Additionally, implement a reliable recovery mechanism to restore data in the event of accidental deletion or corruption, ensuring data integrity and continuity.

## Scalability

* Design the system with scalability in mind to accommodate the expanding number of books and sellers. This involves efficient database design and optimization for optimal performance as the system grows.

## User-friendly interface

* Develop an intuitive and user-friendly interface for managing books, prioritizing ease of navigation and action execution. This ensures that sellers can interact with the system seamlessly, reducing the likelihood of errors or confusion.

## Audit trail

* Incorporate an audit trail feature within the system to log all significant actions performed by sellers, including additions, updates, and removals of books. This audit trail serves as a crucial tool for tracking changes and resolving potential disputes, enhancing transparency and accountability in the system.

## 

# Preconditions

## Internet connectivity

* For seamless website access, the user's device must maintain a reliable and active internet connection.

## Seller is logged in

* Access to the book management functionality is contingent upon the seller being authenticated and logged into the system.

## System availability

* The website must consistently be operational and available, ensuring uninterrupted access for users.

## Valid book information

* When adding or updating a book, the entered information must be accurate and comply with predefined formats and constraints. This includes ensuring valid titles, positive quantities, and adherence to other specified criteria.

## Sufficient permissions

* The logged-in seller must possess the requisite permissions to perform actions such as adding, updating, or removing books from their inventory, ensuring a secure and controlled environment.

# Postconditions

## Book addition confirmation

* Upon successful addition, the added book must promptly appear in the seller's inventory with the specified details, ensuring real-time updates.

## Book update validation

* Following a successful update, the system should immediately reflect the changes in the book's details within the seller's inventory, maintaining accuracy and consistency.

## Book removal validation

* After successfully removing a book, the book should promptly disappear from the seller's inventory, ensuring that it is no longer visible or accessible.

## Notification system

* The system should generate appropriate notifications or messages for the seller, indicating the success or failure of each action (addition, update, removal) to keep them informed.

## Data consistency assurance

* Post each operation, the system must ensure data consistency, preventing scenarios where the data is left in an inconsistent or incomplete state, thus maintaining the integrity of the book inventory.

## Secure log out

* Upon completing book management tasks, the seller can securely log out of the system, ensuring the termination of the session in a manner that prioritizes security and user privacy.

# Extension Points

## Bulk operations

* Enhance system capabilities to enable sellers to conduct bulk operations, such as simultaneous addition, updating, or removal of multiple books. This could involve functionalities like uploading a CSV file or utilizing a similar import/export mechanism for efficient management.

## Advanced search and filters

* Augment the search functionality to incorporate advanced filters, empowering sellers to search and filter books based on diverse criteria such as category, publication date, and ratings, enhancing the precision of book searches.

## Seller analytics

* Introduce analytics and reporting features within the system to provide sellers with valuable insights into their book performance. This includes tracking sales trends, customer preferences, and revenue generated, facilitating informed decision-making.

## Integration with external systems

* Enable seamless integration with external systems, such as third-party shipping services or accounting software, to streamline processes and offer additional functionalities, enhancing the overall efficiency of book management.

## Internationalization and localization

* Extend system support to include internationalization and localization features, allowing sellers to manage books in multiple languages and currencies. This ensures adaptability to diverse markets and provides a more inclusive platform.

## Integration with social media

* Incorporate features that enable sellers to share information about their books directly from the seller dashboard on social media platforms. This integration enhances marketing efforts and promotes broader visibility for the seller's book offerings.