

Use Case Name	View All Books
Actor	Developer
Goal	See the full list of books added by the community
Preconditions	User is on the main page
Postconditions	Book list is displayed
Main Flow	<ul style="list-style-type: none"> <li>• Developer visits the home page</li> <li>• System retrieves all books from DB</li> <li>• System displays books in a list format</li> </ul>
Alternate flow	A1. Database connection error → system displays an error message

Use Case Name	Add a Book
Actor	Developer
Goal	Add a new book to the community library
Preconditions	Developer is logged in
Postconditions	New book is stored and visible in the list
Main Flow	<p>Developer clicks "Add Book"</p> <ul style="list-style-type: none"> <li>• Fills in title, author, category, etc.</li> <li>• Submits the form</li> <li>• System validates inputs</li> <li>• System saves the book to DB with user ID</li> <li>• Confirmation message is shown</li> </ul>
Alternate flow	<p>A1. Missing required field → System shows validation errors</p> <p>A2. DB error → System shows error message</p>

Use Case Name	Edit a Book
Actor	Developer
Goal	Update book info they added
Preconditions	Developer is logged in and owns the book
Postconditions	Book details are updated
Main Flow	<p>Developer clicks "Edit" on a book they added</p> <ul style="list-style-type: none"> <li>• Edits the fields</li> <li>• Submits form</li> <li>• System validates inputs</li> <li>• System updates the DB</li> <li>• Confirmation message shown</li> </ul>
Alternate flow	<p>A1. Developer tries to edit someone else's book → Access denied message</p> <p>A2. Validation or DB failure → Error message shown</p>

Use Case Name	Delete a Book
Actor	Developer
Goal	Remove a book they added
Preconditions	Developer is logged in and owns the book
Postconditions	Book is deleted from the database
Main Flow	<p>Developer clicks "Delete" on their book</p> <ul style="list-style-type: none"> <li>• System shows confirmation dialog</li> <li>• Developer confirms</li> <li>• System deletes the book</li> <li>• System refreshes list</li> </ul>

Alternate flow	A1. Book doesn't belong to developer → Error: "Not authorized" A2. DB error → Show error message

Use Case Name	Filter/Sort Books
Actor	Developer
Goal	Sort or filter books based on criteria
Preconditions	Book list is visible
Postconditions	List is refreshed based on filters
Main Flow	Developer selects filter or sort options (e.g., by category or status) <ul style="list-style-type: none"> <li>• System fetches filtered/sorted list</li> <li>• Updated list is displayed</li> </ul>
Alternate flow	A1. No books match criteria → Display "No results found"

Use Case Name	Search for Books
Actor	Developer
Goal	Find books by title or author
Preconditions	Developer is on book list page
Postconditions	Matching books are shown
Main Flow	Developer types a search query <ul style="list-style-type: none"> <li>• Clicks "Search" or presses enter</li> </ul>

	<ul style="list-style-type: none"> <li>• System filters list based on query</li> <li>• Matching books shown</li> </ul>
Alternate flow	A1. No matches → “No books found” message shown

Use Case Name	Borrow a Book
Actor	Developer
Goal	Mark a book as currently being read
Preconditions	Developer is logged in
Postconditions	Book is added to developer’s reading list
Main Flow	Developer clicks “Borrow” on a book <ul style="list-style-type: none"> <li>• System logs the borrow date</li> <li>• Status updated to “In Progress”</li> <li>• Confirmation shown</li> </ul>
Alternate flow	A1. Book already borrowed → Show “Already in reading list”

Use Case Name	Return a Book
Actor	Developer
Goal	Mark a book as finished
Preconditions	Developer has borrowed the book
Postconditions	Book status updated to “Finished”
Main Flow	Developer clicks “Return” <ul style="list-style-type: none"> <li>• System marks the book as “Finished”</li> <li>• System records return date</li> <li>• Confirmation shown</li> </ul>

Alternate flow	A1. Book was never borrowed → Show error: "Not in your reading list"
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Use Case Name	View Book Stats
Actor	Developer
Goal	See statistics like most borrowed books
Preconditions	Developer is logged in
Postconditions	Stats are displayed
Main Flow	<p>Developer opens the stats page</p> <ul style="list-style-type: none"> <li>• System fetches data (top 10, categories, borrow count)</li> <li>• System displays charts or lists</li> </ul>
Alternate flow	<p>A1. No borrow data yet → "No stats available" shown</p> <p>A2. DB error → Display fallback message</p>