



Use case Preconditions & Post-conditions

01. Publish Articles

Preconditions: The user is logged in and has publishing permissions; the article content is prepared and validated.

Post-conditions: The article is added to the library, viewable, and open for user ratings and reviews.

02. Edit Articles

Preconditions: The user is logged in with editing rights for the article in question.

Post-conditions: The edited article is updated, and changes are recorded.

03. Delete Articles

Preconditions: The user has deletion rights for the article.

Post-conditions: The article is removed from the library, and associated data may be archived or deleted.

04. Librarian Issues Book

Preconditions: The librarian has the appropriate privileges, the book is available, and the borrower has a valid library account.

Post-conditions: The book is marked as checked out, the due date is set, and borrower history is updated.

05. Edit Book Details

Preconditions: The Librarian is logged in with editing permissions, and the book to be edited exists in the library's inventory.

Post-conditions: The book details are successfully updated.

06. Remove Book Details

Preconditions: The Librarian is logged in with deletion permissions, and the book to be removed exists in the library's inventory.

Post-conditions: The book is removed from the library's inventory.

07. Add Book Details

Preconditions: The Librarian is logged in with adding permissions, and the book details are prepared and validated.

Post-conditions: The book is added to the library's inventory.

08. Create Library ID

Preconditions: A new user is registering for a library account with valid information.

Post-conditions: A unique library ID is generated for the user, and they are registered in the library system.

09. Login

Preconditions: The user provides valid login credentials.

Post-conditions: The user gains access to their library account.

10. User Account Creation:

Preconditions: The user provides valid registration information.

Post-conditions: A new user account is created and can be used to access library services.

11. Edit Profile Information

Preconditions: The user is logged in and chooses to edit their profile details.

Post-conditions: The user's profile information is successfully updated.

12. Reset Password

Preconditions: The user requests a password reset and follows the verification process.

Post-conditions: The user's password is reset, and they can log in with the new credentials.

13. Reserve a Book

Preconditions: The user is logged in, the book is available, and reservation is allowed.

Post-conditions: The book is reserved for the user, and they receive a notification when it's available for checkout.

14. Review & Rate Articles

Preconditions: The user is logged in and accesses an article.

Post-conditions: The user can provide a review and rating for the article.

15. View Fine Amount

Preconditions: The user is logged in, has fines, and selects the option to view fine details.

Post-conditions: The user can see the details of fines they owe.

16. Review Book

Preconditions: The user is logged in and accesses a book.

Post-conditions: The user can provide a review for the book.

17. View Book Inventory

Preconditions: The user is logged in and accesses the library's book inventory.

Post-conditions: The user can browse and search the available books.

18. Request Book

Preconditions: The user is logged in and requests a book.

Post-conditions: The book request is recorded, and the user is notified when the book is available for pickup.