

## UC1: User Registration and Login

**Scope:** User Registration and Login

**Description:** This use case describes the process of a user registering for a new account or logging into the platform using their email and password.

**Level:** User Goal

**Primary Actor:**

User

**Supporting Actors:**

Authentication System

**Pre-Conditions:**

- The user must have an active internet connection.
- The system must be operational.

**Main Scenario (Login):**

1. The user navigates to the login page.
2. The system prompts for email and password.
3. The user enters valid credentials.
4. The Authentication System validates the credentials.
5. The user is logged in successfully and redirected to the homepage.

**Alternative Scenario (Forgot Password):**

1. The user enters incorrect credentials three times.
2. The system locks the account temporarily and shows a "Forgot Password" button.
3. The user clicks "Forgot Password" and is prompted to enter their registered email.
4. The system sends a password reset link via email.
5. The user clicks the link, resets the password, and logs in with the new password.

**Post-Conditions:**

- The user is logged in.
  - The user can access all system features based on their role.
- 

## UC2: Book Listing

**Scope:** Book Listing

**Description:** This use case describes the process of users adding books to the platform with

detailed information.

**Level:** User Goal

**Primary Actor:**

User

**Supporting Actors:**

None

**Pre-Conditions:**

- The user must be logged in.
- The user has a book to list.

**Main Scenario:**

1. The user navigates to the "Add Book" section.
2. The system prompts the user to fill in book details (e.g., title, author, genre, condition).
3. The user uploads a photo of the book.
4. The system validates the entered details.
5. The book is successfully listed and made available for browsing by others.

**Post-Conditions:**

- The book is visible to other users on the platform.
  - The listing is stored in the system database.
- 

## **UC3: Book Search Browsing**

**Scope:** Advanced Search and Book Browsing

**Description:** This use case describes the process of users searching for books using filters and browsing through available listings.

**Level:** User Goal

**Primary Actor:**

User

**Supporting Actors:**

None

**Pre-Conditions:**

- The user must be logged in.

- The system must contain available book listings.

**Main Scenario:**

1. The user navigates to the "Search" or "Browse" section.
2. The system displays available books categorized by genre, condition, and location.
3. The user enters specific search criteria.
4. The system filters results based on the input and displays matching books.
5. The user views the book details or initiates an exchange request.

**Post-Conditions:**

- The user finds a book of interest or refines their search further.
- 

## **UC4: Exchange Management**

**Use Case Name:** Exchange Management

**Description:** This use case describes the process of users initiating and managing book exchanges.

**Level:** User Goal

**Primary Actor:**

Requesting User

**Supporting Actors:**

Recipient User, Courier/Delivery System

**Pre-Conditions:**

- Both users must be logged in.
- Books must be listed in the system.

**Main Scenario:**

1. The requesting user views a book and selects "Request Exchange."
2. The system prompts the requesting user to select a book to offer in return.
3. The system sends the exchange request to the Recipient User.
4. The Recipient User reviews the request and either accepts or declines it.
5. If accepted, the system initiates delivery coordination with the Courier/Delivery System.

**Alternative Scenario:**

1. The recipient user declines the exchange request.
2. The system notifies the requesting user about the decline.

3. The requesting user can select another book to offer or cancel the exchange request.

**Post-Conditions:**

- If accepted, the exchange is processed and tracked.
  - Both users provide feedback after the exchange.
- 

## **UC5: Provide Feedback**

**Scope:** Provide Feedback

**Description:** This use case describes the process of users leaving feedback for each other after completing a book exchange.

**Level:** User Goal

**Primary Actor:**

Requesting User, Recipient User

**Supporting Actors:**

None

**Pre-Conditions:**

- A completed exchange exists between the users.
  - The users are logged into the system.
- 

**Main Scenario:**

1. The user navigates to the "History" section.
  2. The system displays a list of completed exchanges.
  3. The user selects a completed exchange.
  4. The system prompts the user to provide feedback (rating and comment).
  5. The user enters the feedback and submits it.
  6. The system stores the feedback and updates the other user's profile with the new rating.
  7. The system confirms that feedback has been submitted successfully.
-

**Alternative Scenario:**

1. The user attempts to provide feedback for an exchange that has not been completed.
  2. The system displays a message: "Feedback can only be given for completed exchanges."
- 

**Post-Conditions:**

- Feedback is saved and reflected in the recipient's profile.
- The user can view their submitted feedback in the "Exchange History" section.