

Use Case Diagram

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Actors:

User : Represents a general user who can access and use the library application.

Customer: Represents a customer-type user who can perform actions such as borrowing, returning, and extending books, signing up and signing in, and viewing the dashboard.

Librarian: Represents a librarian-type user who manages the library system, including returning and extending users' books, adding, updating, and deleting books, and viewing the dashboard.

Use Cases & Actions

Account Management:

1. **Select Language:** User chooses the preferred language for the website
2. **SignUp:** Create a new user account
3. **SignIn:** User can log on their account
4. **View Dashboard:** View user profile page
5. **Update Email Address:** Change user's email address
6. **Log out:** Logs user out of their account

Book Management (user):

1. **Search Book by Title:** Look up books with title keyword
2. **View Book Details:** Shows user more details about a book
3. **Reserve Book:** Lets user reserve a book
4. **Return Book:** Returns book after reservation
5. **Get Notification:** Notifies user when a reservation is near due
6. **Get Penalty:** Gives the user a penalty when not returning book in time
7. **Delete Account:** Deletes user account

Book Management (Librarian)

1. **View Overdue Books:** Views books past due for return

2. **Update Book:** Updates book information
3. **Delete Book:** Deletes book
4. **Extend Reservation:** Extends book reservation
5. **View Extend and Return Books:** Views extended books and returns them to the system
6. **Add Book:** Adds a new book to the system

