

Use Case UC1: Borrow Book

Scope: Library Management System

Level: User Goal

Primary Actor: Library Member

Stakeholders and Interests:

- Library Members: Efficiently borrow books and manage loans.
- Librarians: Maintain resources and facilitate borrowing processes.
- Library System Administrators: Ensure system reliability and accurate book availability data.

Preconditions:

- Member has a valid library card.
- System is accessible and functioning.
- Desired books are available.

Postconditions: Member successfully borrows selected books.

Main Success Scenario:

1. Member logs into the system.
2. Member searches for books by title, author, or subject.
3. System displays available books matching criteria.
4. Member selects multiple books.
5. System shows book details, including location and loan period.
6. Member confirms intention to borrow.
7. System updates book status to "borrowed" and records loans.
8. System provides due dates and renewal options.
9. Member receives confirmation of borrowing transaction.
10. Member exits system with selected books.

Extensions:

3-5a. Unavailable books:

1. System checks for similar books or holds a request.
2. System informs Member of similar books or hold option.
3. Member chooses similar books or places a hold.

6-7a. Exceeds borrowing limit:

1. System alerts Member about limit.
2. Member returns books or requests extension if eligible.
3. System allows borrowing for remaining books if Member adjusts loans.

Special Requirements:

- Real-time book availability updates.
- Integration with notification system for due date reminders.

Technology and Data Variations:

- Support for multiple branches and shared resources.
- Mobile app integration.

Frequency: Frequent, as Members regularly borrow books.

Miscellaneous: Ensure compliance with library loan policies. Provide help resources and customer support for assistance with the borrowing process.