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| Book | |
| Responsibility:   * Knows if it's borrowed. * Provide methods to mark the book as borrowed or returned. | Collaborators:   * Library |

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**Class-Responsibility-Collaborator (CRC) Analysis for Library System**

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| Member | |
| Responsibility:   * Request to borrow a book (only if available and within the 3-book limit). * Return a borrowed book to update its availability. | Collaborators:   * Library |

**Class: Book**

Maintain awareness of its current borrowed status.

**Class: Member**

Represents a library user who can borrow up to 3 books at a time.

**Class: Librarian**

Acts as an administrator to manage the collection and generate system reports.

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| Class: Librarian | |
| Responsibility:   * Add new books to or remove outdated/lost books from the library. * Retrieve lists of available books and see which books are checked out with associated members. | Collaborators:   * Library |

**Class: Library**

Serves as the central system coordinating book storage, borrowing, and returning operations.

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| Class: Library | |
| Responsibility:   * Store and manage the collection of Book objects. * Handles borrow and return operations, including enforcing borrowing limits and tracking which member has which book. | Collaborators:   * Book * Member * Librarian |