**Identified Classes**

1. **Book**
   * Represents a book in the library.
   * Needed to store details like title, author, ISBN, and availability.
2. **Member**
   * Represents a library member who can borrow books.
   * Keeps track of borrowed books (max 3) and manages returns.
3. **Librarian**
   * Manages book collection by adding/removing books.
   * Monitors book availability and borrowing records.
4. **Library**
   * Manages the overall collection of books.
   * Provides services for book searches, availability, and tracking borrowed books.

**Class Responsibilities**

1. **Book**
   * Store and retrieve book details (title, author, ISBN, availability).
   * Update availability status when borrowed/returned.
2. **Member**
   * Borrow up to 3 books if available.
   * Return books and update availability.
3. **Librarian**
   * Add and remove books from the collection.
   * View and manage borrowed book records.
4. **Library**
   * Maintain a list of books and their availability.
   * Facilitate borrowing, returning, and searching for books.

**Class Collaborations**

1. **Book** collaborates with:
   * **Member**: A book’s availability changes when a member borrows or returns it.
   * **Library**: The library stores and manages all books.
2. **Member** collaborates with:
   * **Book**: Members borrow and return books.
   * **Library**: The library manages borrowing limits and book availability.
3. **Librarian** collaborates with:
   * **Library**: The librarian manages book records in the library.
   * **Book**: Librarians add and remove books.
4. **Library** collaborates with:
   * **Book**: Stores and manages book data.
   * **Member**: Tracks borrowed books and borrowing limits.
   * **Librarian**: Allows book management operations.