Design for a Library:

| Book(Needed to store information about each book (title, author, ISBN) and track its availability status) | |
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| - Store book details (title, author, ISBN, availability status)  - Update its availability status when borrowed or returned | - **LibraryDatabase**(To be part of the library's collection)  - **Member**(When being borrowed or return) |

| Member(Needed to manage borrowing limits and track which books a member has borrowed) | |
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| - Maintain a list of currently borrowed books (up to 3)  - Borrow available books and return books when finished. | - **LibraryDatabase**(To verify borrowing limits and update book status)  - **Book**(To borrow and return specific books) |

| Librarian(Needed to perform management operations like adding/removing books and viewing system information) | |
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| - Add new books to the collection.  - Remove outdated or lost books  - View lists of available and borrowed books | - **LibraryDatabase** (To access information about the collection)  - **Book** (To add new books or remove existing ones)  - **Members** (To view which members have borrowed which books) |

| LibraryDatabase(Needed to coordinate interactions between books, members, and librarians while enforcing business rules) | |
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| - Maintain the complete collection of books  - Track borrowed books and who has them. | - **Book** (To maintain the collection and update availability)  - **Member** (To enforce borrowing rules and track borrowed books)  - **Librarian** (To provide administrative functions) |