The library maintains a collection of books, each having a title, author, ISBN, and availability status. Members of the library can borrow books if they are available. Each member can borrow only up to 3 books at a time. When a member returns a book, it should become available again. Librarians can add new books to the collection and remove books that are outdated or lost. The system must allow the librarian to view the list of available books and see which books are currently checked out and who has borrowed them.

| **Library** | |
| --- | --- |
| ***Responsibilities:***  Maintains a collections of Books  Stores where Books are checked out to  Makes sure members can not checkout over 3 books | ***Collaborators:***  Librarian |

| **Book** | |
| --- | --- |
| ***Responsibilities:***  Stores the title, author, and ISBN  Maintains the status of whether it is checked out or not | ***Collaborators:*** |

| **Members** | |
| --- | --- |
| ***Responsibilities:***  Can checkout books up to a 3 books  Stores which books are checked out to a library member | ***Collaborators:***  Library  Librarian |

| **Librarian** | |
| --- | --- |
| ***Responsibilities:***  Check who has which books checked out  Be able to modify whether that be add or remove books from the library | ***Collaborators:***  Library  Book  CheckedOutCatalog  AvailableCatalog |

| **AvailableCatalog** | |
| --- | --- |
| ***Responsibilities:***  Shows which books are available to be checked out to members in the library | ***Collaborators:***  Book |

| **CheckedOutCatalog** | |
| --- | --- |
| ***Responsibilities:***  A list of Members who have checked out books and which ones they have  Stores when the books was checked out as well and when the member has to return them | ***Collaborators:***  Book |