Librarian’s Design Document

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**Overview:**

We will be creating an application for a personal library. We will include a database with search and input capabilities. The app will be able to add books to the personal library database, search option to find books in the library, store metadata for the books and have a wish list. Metadata is information like genre, author, description keywords, illustrator. We will look at using the book’s ISBN too download their metadata such as genre author description keywords.

**Requirements:**

* Input books with title, author, illustrator.
* Search for book in personal library by author and title
* Use of API to gather information about the book.
* Stretch -Wish list
* Stretch – Photo of book’s ISBN for input.

**Overview of the design/approach:**

We will have a” book” class that will be the base class. It will have the data about the book such as author and title. A “shelf” will be an array of books. It will be sorted into categories. A book could potentially be in more than one shelf. The “Library” will be an array of “shelfs”. The library will be saved in the format of JSON. It will be saved in a local file, in the app’s directory. We will pull information from an API to gather information about the books.

**Library UI**

**Diagram

Description automatically generated**

**UML Diagrams**

**Diagram

Description automatically generated**