

# **CISS 243 Final Project Design**

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## **Program Description**

I will build a web app that will store an individual's reading list. It will deliver several features to the user including, but not limited to, displaying books that have already been read, display a wishlist of books to read, several statistics based on collected data, and suggest a random book from the wishlist to read. There will be several pages to display the data and several more for the user to interact with the database. The user will be able to add new books to the database and mark whether it has been read or not. The user will be able to search through their list of books based on several criteria.

One goal that a user may have is to store a list of the books they want to read in one easy to access location. My app would solve that by allowing the user access to this list anywhere that they can access a browser. My app will also contain other features such as book suggestions to make picking that next book even easier.

Another goal that a user might have is to keep track of books that they've already read so that they can reference it at any time. My app would solve this by providing access to the list through the internet. My app will also contain features such as showing the user statistics and other information based on their reading history that will give the user a deeper understanding of their reading history.

## **List of Pages**

Login Page: This page will allow a user to log in with credentials

Landing Page: This will be the first page the user sees after logging in. It will display what book the user is currently reading as well as a table of the books in the users wish list. The section that displays the user's current book will instead suggest a random book from the users wish list (The random book may be moved to its own section if too difficult to implement the switch). The user will be able to mark the current book as completed from here.

Add To Wishlist Page: This page will allow the user to add new books to their wishlist. The user will be able to select from a pre-populated list of books and preview their details before adding it to the wishlist.

Edit/Add A New Book Page: If the user cannot find the desired book in the pre-populated list, they can come to this page and add it. There will be select boxes to choose from authors, series', and genres that have been previously added but the user can add any new information to those categories as needed here as well. Adding a book this way will add it to the pre-populated list AND the current users wishlist (This feature could be expanded in a future update. See Future Features Item #1 below). The user will also be able to edit the books in the global list from here as well (This feature could be expanded in a future update. See Future Features Item #2 below)

View Previously Read Books Page: This page will allow a user to see all the books they have completed as well as several other calculated statistics about their reading data.

### **Future Features**

Below is a list of ideas for updating the app. Although these features could add tremendous value to the project, they have been deemed out of scope and will not be included in the initial release of the application.

1. Expand the Add A Book Feature to have a layer of security. Users will be able to add a new book to their personal wishlist immediately, but the book will need admin approval before becoming globally available. To accomplish this, update the Book table to include an approval status field and a user field to ID the user that requests the addition. The user will be able to access anything approved or anything they have pending approval. An admin then be able to curate the book list.
2. Expand the Edit A Book feature to have a layer of security. Users would not be able to edit any book that is already approved. The user will be able to edit any pending books they have. An admin will be able to edit any book. To accomplish this, leverage the additional features layed out in Feature #1 above.

Again, these Future Features are OUT OF SCOPE of the project I intend to turn in and have only been included here for my future reference.