

Booklist

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Description

Booklist addresses the needs of the avid reader who can't remember what they want to read, what they read, and how they reacted to the books they read. The program uses Java, Thymeleaf, CSS, and HTML. It allows users to add book titles and authors to a list, view the entire list of books read and unread, and view by rating or unread lists.



Features

- New users are able to signup for an account
- Returning users login
- Once logged in, users can:
 - Add books
 - Edit books
 - Delete books



Planning - User Stories

Users can login to their own account. Users can add, edit, and delete books in their own list. Users can rate books or indicate they are unread, change the rating, and view books by rating category. Users can logout when finished, saving their lists until the next session.



Planning - Database

Model classes / tables:

- User - represents generic user class (via one-to-many relationship)
- Books – has list of books and book ratings returned by user
- BookRating – has ratings of books (via many-to-many relationship)



Technology Stack

- Java
- Spring Boot with Thymeleaf templates
- Bootstrap (version 4)
- MySQL



Demo



What I Learned

- Bootstrap version 4
- New technique (for example, connecting to an API or creating an admin dashboard) This is the most complicated project I have built, with both one-to-many and many-to-many relationships and front-end styling.
- Creating a user account and viewing user-specific content by user was new. I learned how to use cookies in Java and use exceptions.



What's Next

- Add an API so users can search for books to read. I don't know how to do this, so I need to find tutorials to help.
- More Bootstrap practice so I can make a fancier user interface. W3Schools has a course on this.
- Get comfortable using version control, branches, and managing merge conflicts. Many of my roadblocks were due to lack of knowledge of how to use version control in IntelliJ.
- Once there are more than a dozen books, the list needs to be organized. I want to be able to view books alphabetically by author. I don't know how to do this, so I need to do some reading on Java and MySQL.

