

# 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



# Login

List	Rating Categories	Logout
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Username

Password

Login

[Add New User](#)



# My Books

List	Rating Categories		Logout
<u>Title</u>	<u>Author Name</u>	<u>Rating</u>	<u>Edit Entry</u>
Anne of the Island	LM Montgomery	To Be Read	<a href="#">Edit</a>
A Christmas Carol	Dickens	Loved it! Would read again.	<a href="#">Edit</a>
20,000 Leagues Under the Sea	Jules Verne	Loved it! Would read again.	<a href="#">Edit</a>
Moby Dick	Melville	Couldn't finish it	<a href="#">Edit</a>
Mary Berry's Cookbook	Mary Berry	To Be Read	<a href="#">Edit</a>

[Add A Book](#) | [Remove Book From List](#)

# Edit Books: Moby Dick ( id = 46 )

List

Rating Categories

Logout

Name

Author Name

Melville

Full-screen Snip

Rating

Couldn't finish it

Edit Book

# My Books

List	Rating Categories		Logout
<u>Title</u>	<u>Author Name</u>	<u>Rating</u>	<u>Edit Entry</u>
Anne of the Island	LM Montgomery	To Be Read	<a href="#">Edit</a>
A Christmas Carol	Dickens	Loved it! Would read again.	<a href="#">Edit</a>
20,000 Leagues Under the Sea	Jules Verne	Loved it! Would read again.	<a href="#">Edit</a>
Moby Dick	Melville	Hated it	<a href="#">Edit</a>
Mary Berry's Cookbook	Mary Berry	To Be Read	<a href="#">Edit</a>

[Add A Book](#) | [Remove Book From List](#)

# Books in Category Hated it

List		Rating Categories		Logout
<u>Title</u>	<u>Author Name</u>	<u>Rating</u>	<u>Edit Entry</u>	
Moby Dick	Melville	Hated it	<a href="#">Edit</a>	

[Add A Book](#) | [Remove Book From List](#)

Full-screen Snip

Username

Please enter a username with 5-15 characters.

Email (optional)

Full-screen Snip

Password

Please enter a password.

Verify Password

add user



# Login

[List](#)[Rating Categories](#)[Logout](#)

Username

Password

[Full-screen Snip](#)

New User has been created. Please log in.

[Login](#)[Add New User](#)

# 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.

