

Overbooked Lending Library

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Description

Overbooked is a lending library application that allows the registered users to add the books that they wish to share with other users and request books from other registered users.



Features

- User Authentication
- Create Genres
- Add books under different genres
- Search books and view available books
- Request books



Planning - User Stories

- Users are able to log in, creating an account if necessary
- Once logged in , users may :
 - Create genres and add books to the genres with title,author and summary of the book
 - View available books
 - Search for books
 - Request books
- This site was built using bootstrap layouts, so it is easy to use on smartphones.



Planning - Database

Model classes / tables :

- User - represents generic users with an account
- Books - has book details
- Genres - has name along with one to many relationship with Books
- Book Requests - that has many to many relationship with User and Books.



Technology Stack

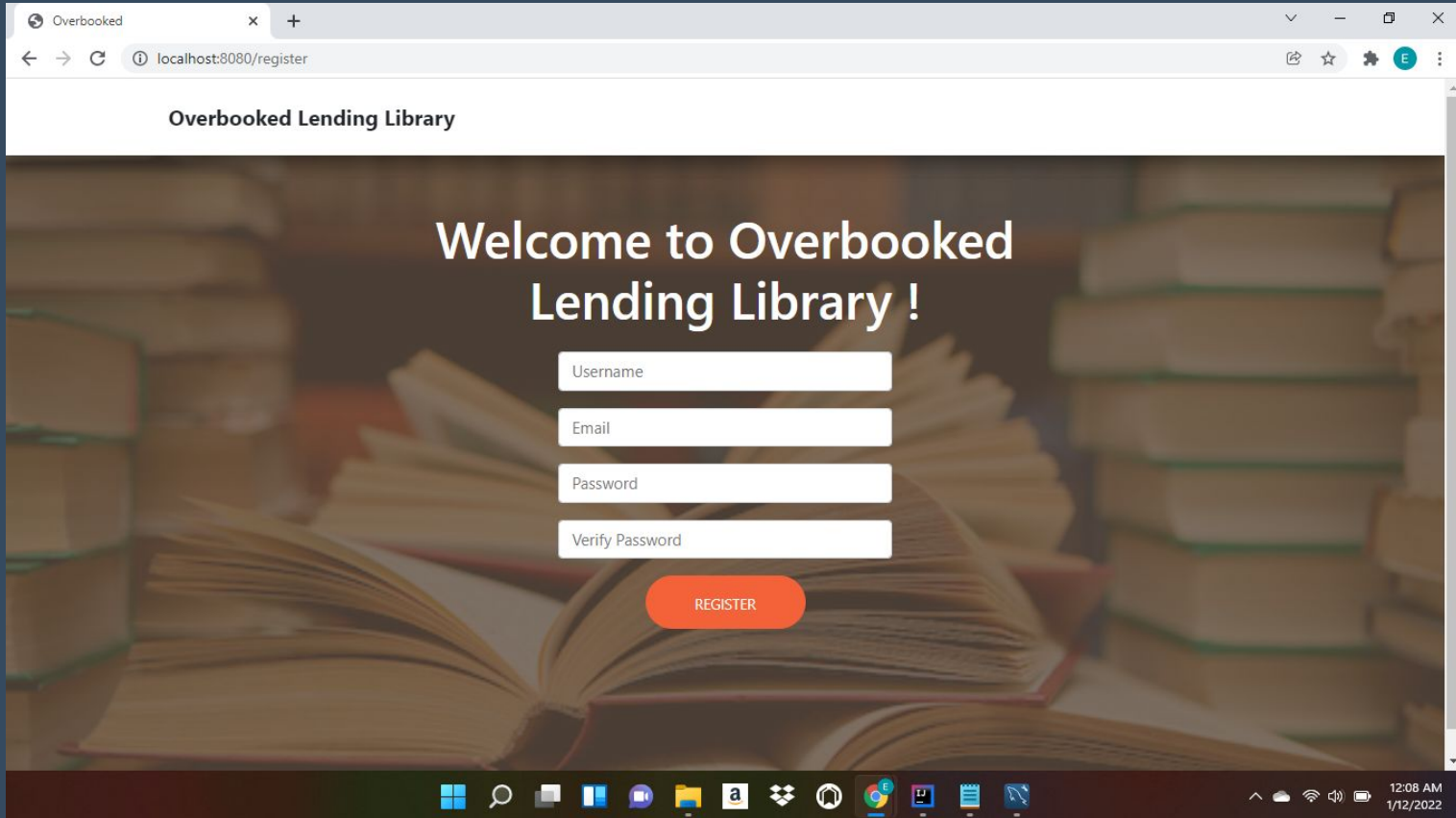
- Java
- SpringBoot
- Thymeleaf templates
- MySql
- BootStrap



Demo



User Registration



The screenshot shows a web browser window with the title 'Overbooked' and a single tab. The address bar displays 'localhost:8080/register'. The page header is 'Overbooked Lending Library'. The main content area features a background image of stacked books with the text 'Welcome to Overbooked Lending Library !' centered. Below the text are four input fields: 'Username', 'Email', 'Password', and 'Verify Password'. An orange 'REGISTER' button is positioned below the input fields. The browser's taskbar at the bottom shows various application icons and the system clock indicating 12:08 AM on 1/12/2022.

Overbooked

localhost:8080/register

Overbooked Lending Library

Welcome to Overbooked
Lending Library !

Username

Email

Password

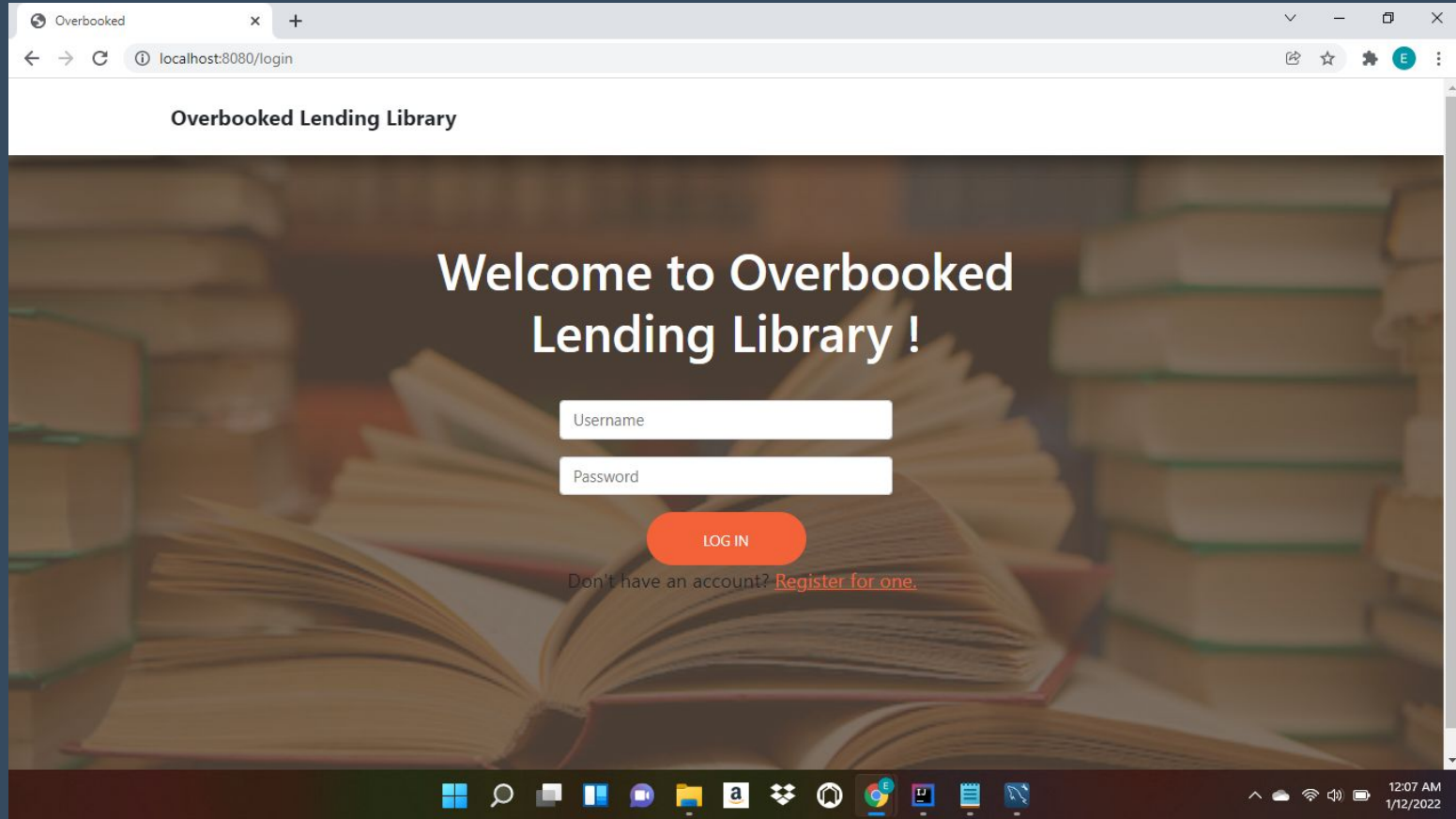
Verify Password

REGISTER

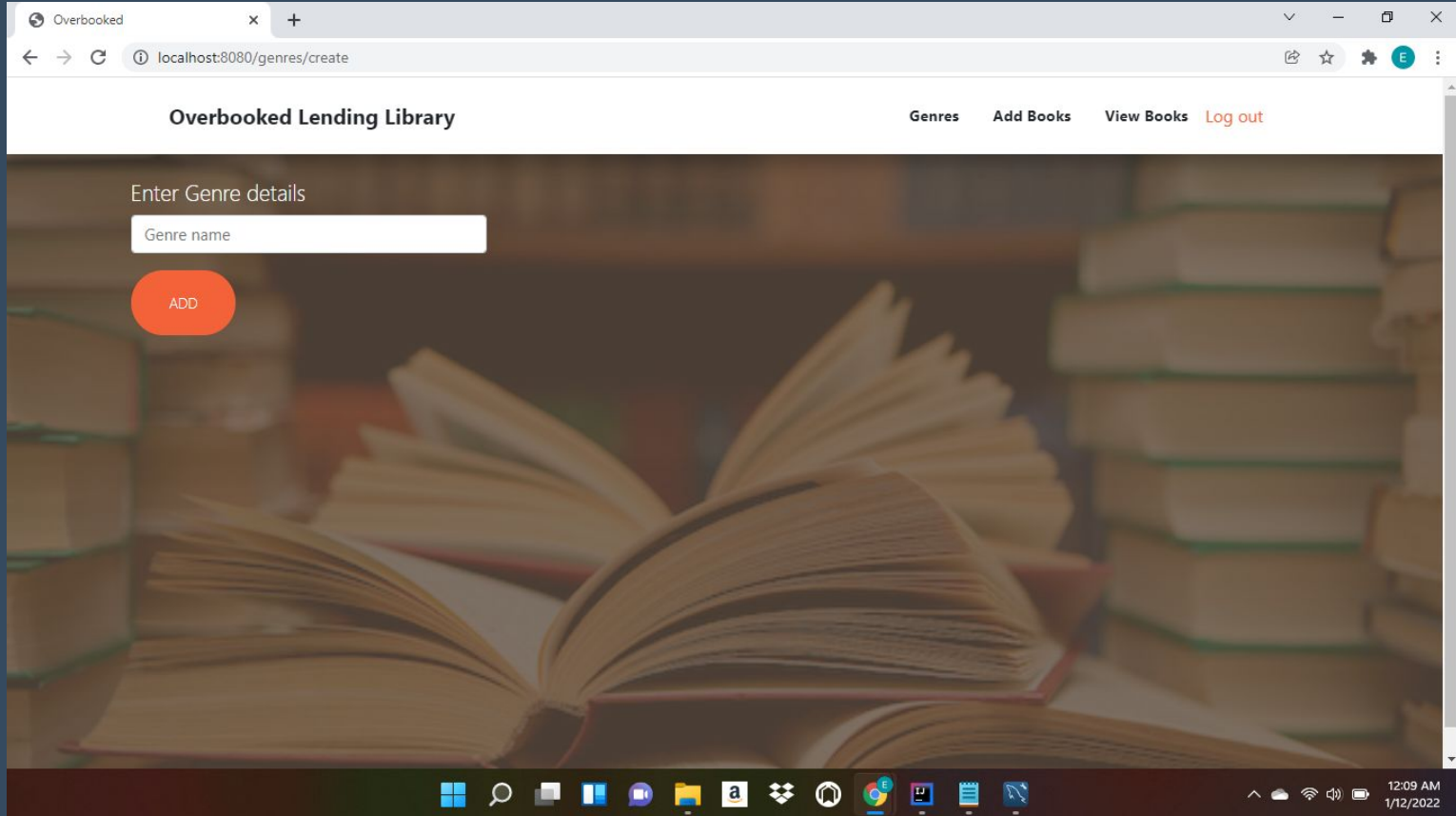
12:08 AM
1/12/2022



Login



Add Genre



Overbooked

localhost:8080/genres/create

Overbooked Lending Library

Genres Add Books View Books Log out

Enter Genre details

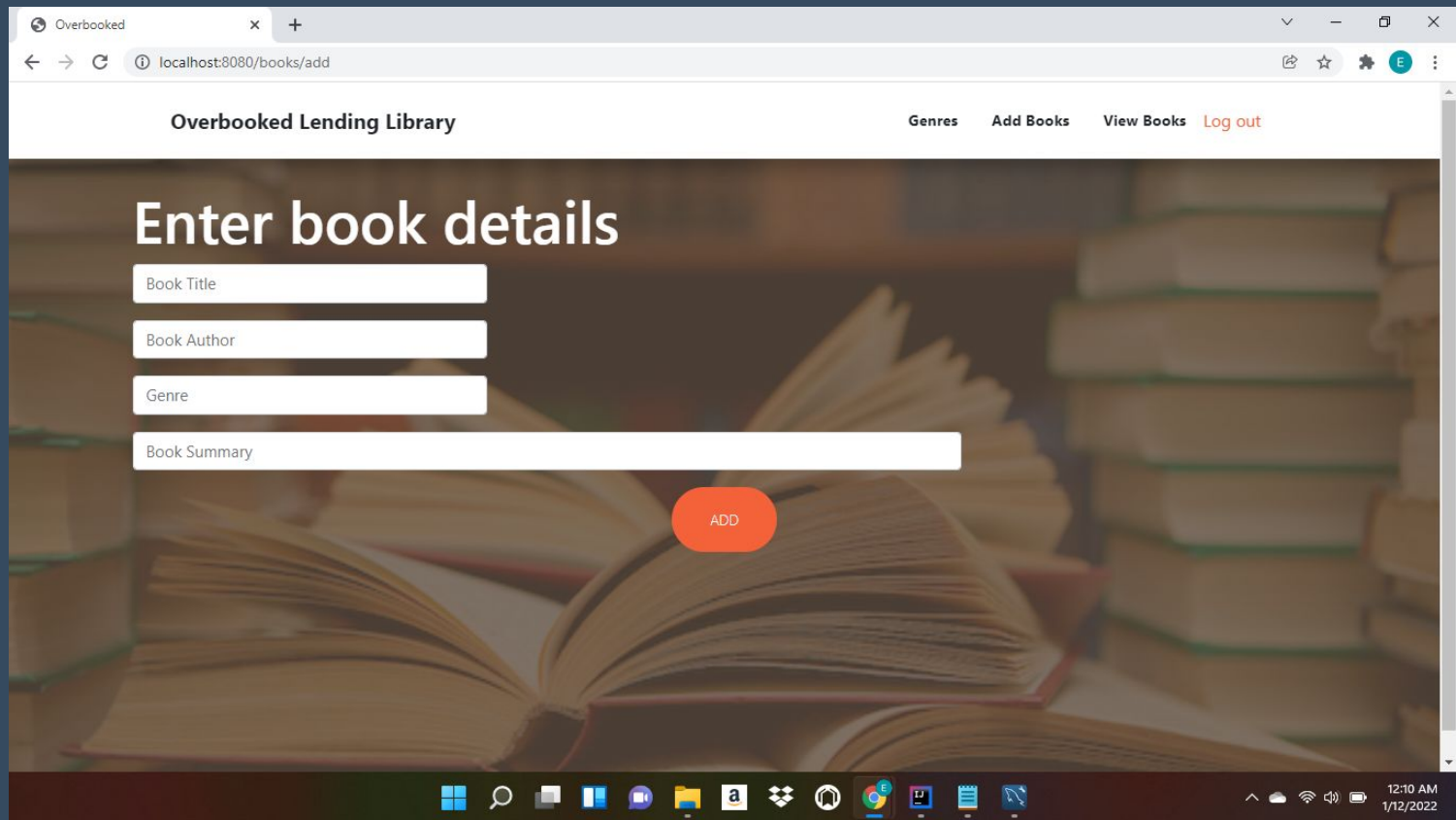
Genre name

ADD

Windows taskbar: 12:09 AM 1/12/2022



Add book



The screenshot shows a web browser window with the URL `localhost:8080/books/add`. The page title is "Overbooked Lending Library". The navigation bar includes links for "Genres", "Add Books", "View Books", and a "Log out" link. The main content area is titled "Enter book details" and features four input fields: "Book Title", "Book Author", "Genre", and "Book Summary". Below these fields is an orange "ADD" button. The background of the form is a blurred image of stacked books. The browser's taskbar at the bottom shows various application icons and the system clock indicating 12:10 AM on 1/12/2022.

Overbooked Lending Library

Genres Add Books View Books Log out

Enter book details

Book Title

Book Author

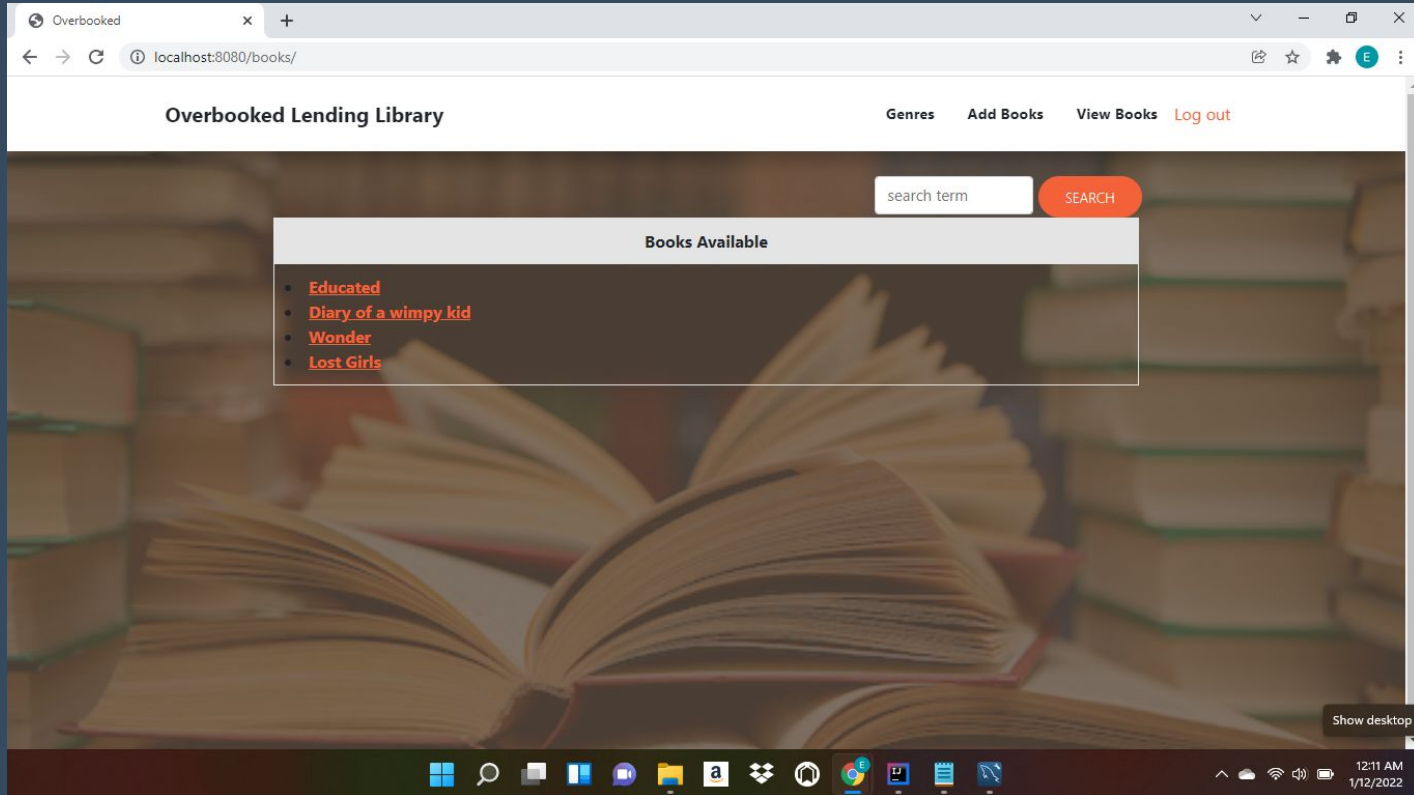
Genre

Book Summary

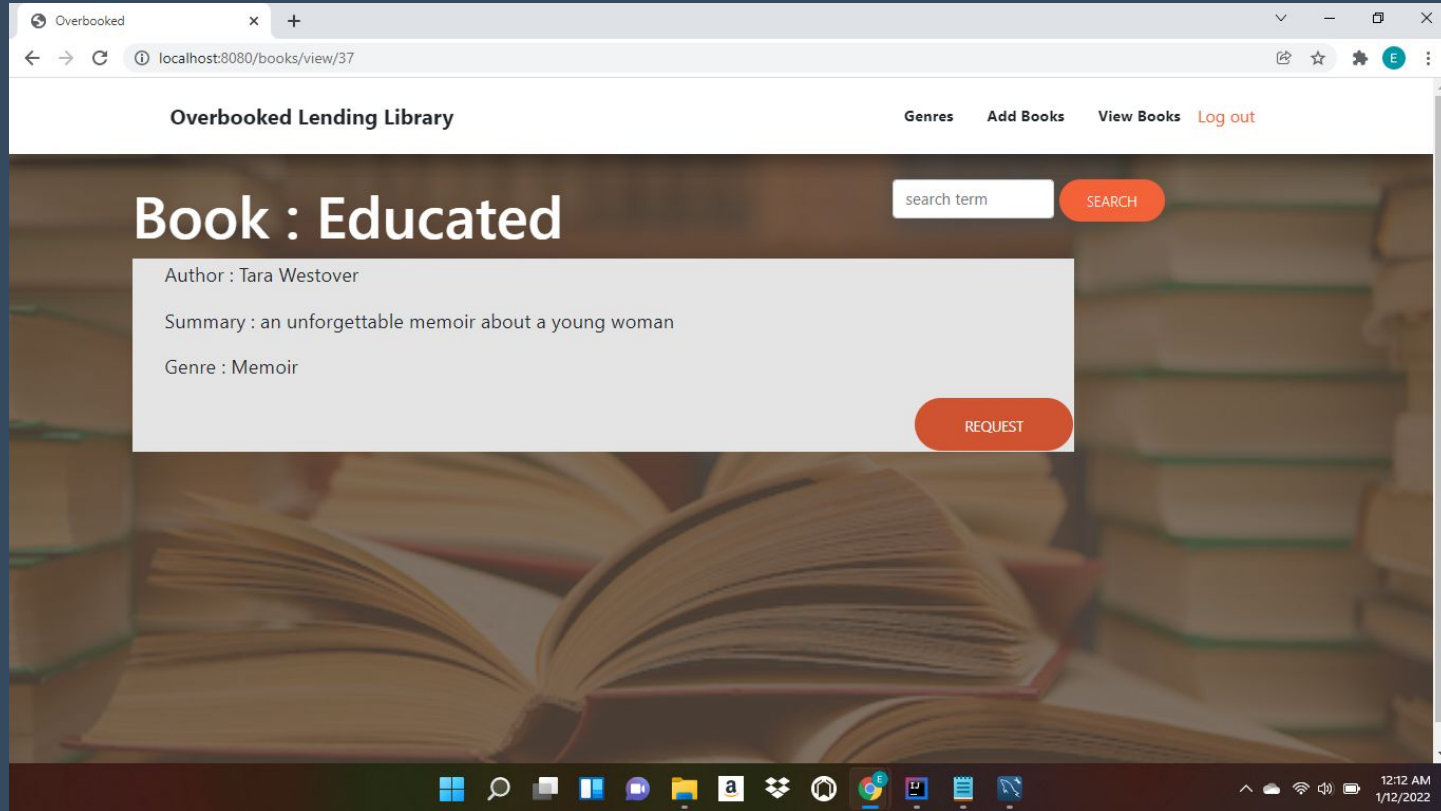
ADD



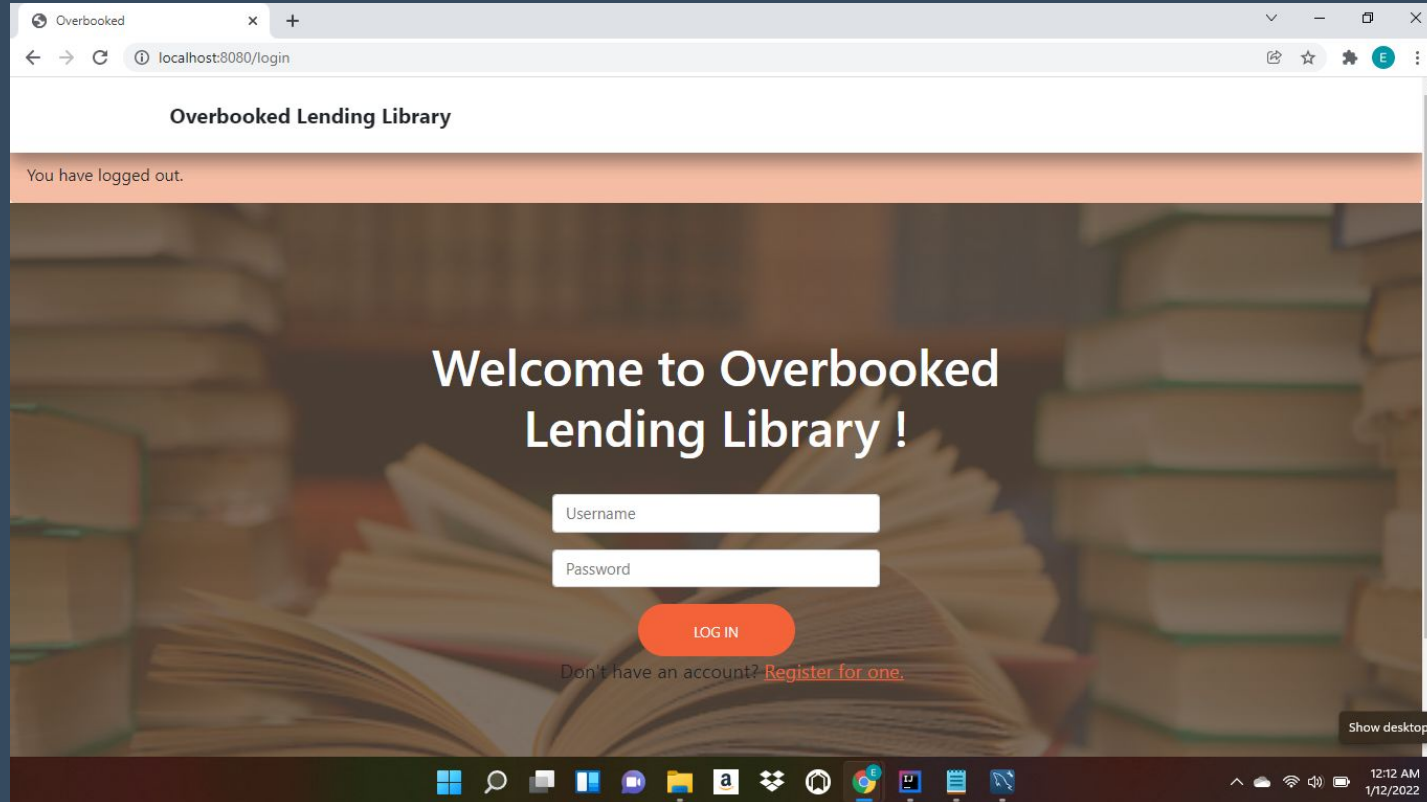
View books



Request Book



Log out



What I Learned

- Spring Security and Authentication filter
- Full-Text Indexes in MySQL
- Bootstrap
- Getting current user information from HTTP Session using HTTPServlet Requests and Responses.



What's Next

- Separate user privileges for admin and users.
- Email response confirming new user registration and book requests.
- Add availability key to books so that not more than one request is made on books.
- Encapsulating Author details from book model.

