

Book Review Web Application

LEDJO PILUA

University of New York Tirana, Department of Computer Science

Advanced Java

Instructor
Elton Ballhysa

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DESCRIPTION

For this project we are required to develop a book review website. The prototype should allow users to access the website and check on books & their details, as well as review them.

Functional Requirements:

1. Users must login to the website using email and password. (standard user or admin)
2. After login, standard users can check their profile, edit their data and save.
3. After login, standard users can view details about books (book title, author, genre, reviews, description, publisher, released date)
4. Standard users can leave reviews (0-5) and comment as well.
5. After leaving a review, standard users can check their reviews on “My reviews” section.
6. On “My review” users can delete their reviews.
7. Users can search on books by their title, author, genre, rating or a combination of all.
8. After login, admin user can check on other users, update their data, delete users or create users.
9. After login, admin user can check on books, update book details, delete books or add books.
10. All users can logout.

SOLUTION

In function of this assignment, we have used the following frameworks:

- Java Server Faces (JSF)
- Java Persistence API (JPA)

Also, we have used EclipseLink for the GlassFish server as an interface of the Java Persistence API. This implementation has helped us to organize and maintain the project effectively. The design pattern that we kept in mind while creating the website is the Model view Controller (MVC), thus the usage of JSF was much easier.

Making a good and convenient user interface was another aspect that we considered, therefore we have used HTML, CSS and JavaScript to accomplish this.

The project consists on packages, which are explained as below:

- **The Beans Package:** includes all classes that link the communication with the view pages.
- **The API Package:** includes classes than contain the public API requests.
- **The DAO Package:** includes all classes that link the communication with database storage.
- **The Model Package:** includes the business entity classes.
- **The Utility Package:** includes general utility classes, which are used by other packages on the system.
- **The Source Package:** includes all classes that are responsible for the control of the project.

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My
Reviews

Uendi
Hoxha

Logout

Books

Title	Release	Synopsis	Genre	Author	Score	Action
The Myth of Sisyphus	03/01/2021	The Myth of Sisyphus is a 1942 philosophical essay by Albert Camus. The English translation by Justin O'Brien was first published in 1955. Influenced by philosophers such as Søren Kierkegaard, Arthur Schopenhauer, and Friedrich Nietzsche, Camus introduces his philosophy of the absurd.	Philosophy	Albert Camus	5	View Review
The General of the Dead Army	02/18/2021	The General of the Dead Army is a 1963 novel by the Albanian writer Ismail Kadare. It is the author's most critically acclaimed novel. Kadare was encouraged to write the book by Drago Siliqi, literary critic and director of the state-owned publishing house Naim Frashëri.	Novel, Fiction	Ismail Kadare	4	View Review
A Farewell to Arms	03/04/1999	A Farewell to Arms is a novel by American writer Ernest Hemingway, set during the Italian campaign of World War I. First published in 1929,	Novel, War story	Ernest Hemingway	0	View Review

title

author

genre

rating

Search

Figure 2 Index Page - standard user

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My
Reviews

Uendi
Hoxha

Logout

My Reviews

Review	Action
<div>MOVIE: The Myth of Sisyphus VOTE: 5 stars</div> <div>Uendi Hoxha: good!</div>	Delete
<div>MOVIE: The General of the Dead Army VOTE: 5 stars</div> <div>Uendi Hoxha: worth reading!</div>	Delete

Figure 1 My Reviews

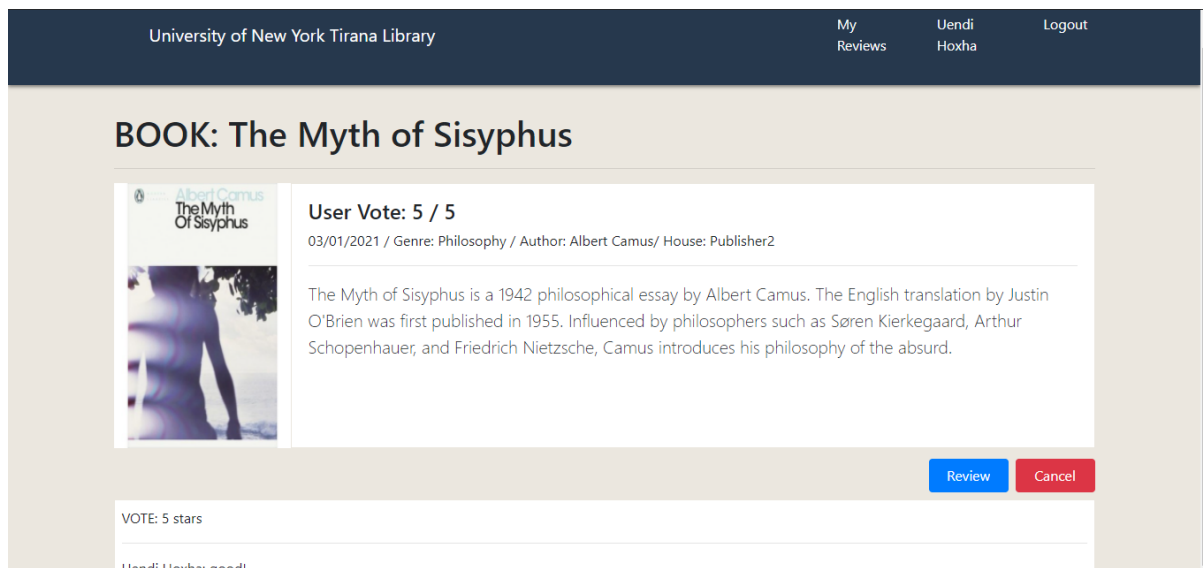


Figure 5 Review Book

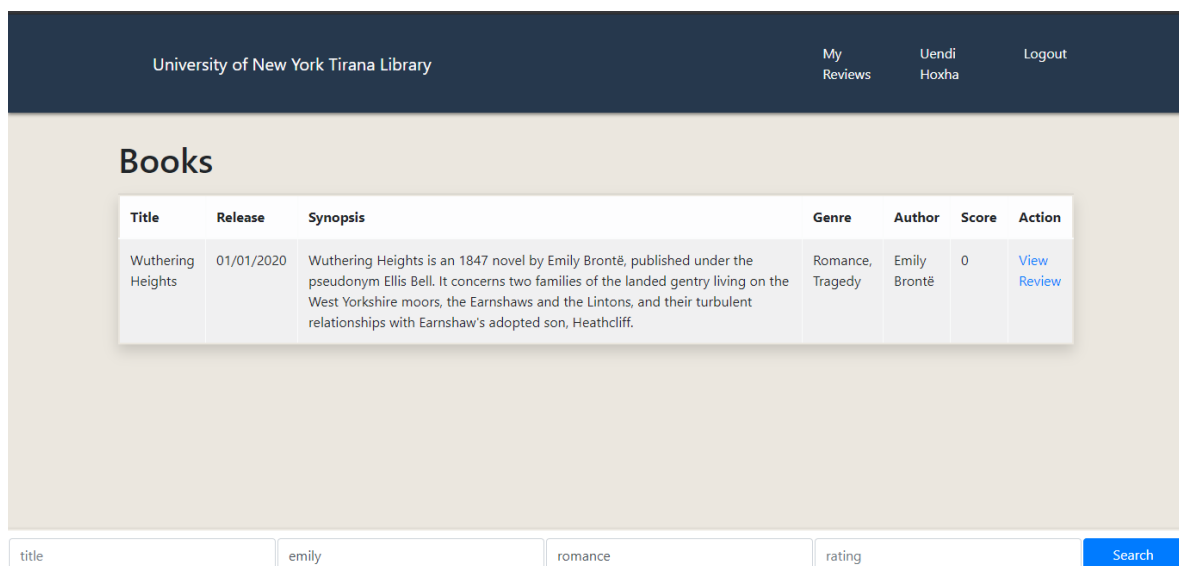


Figure 4 Searching combined

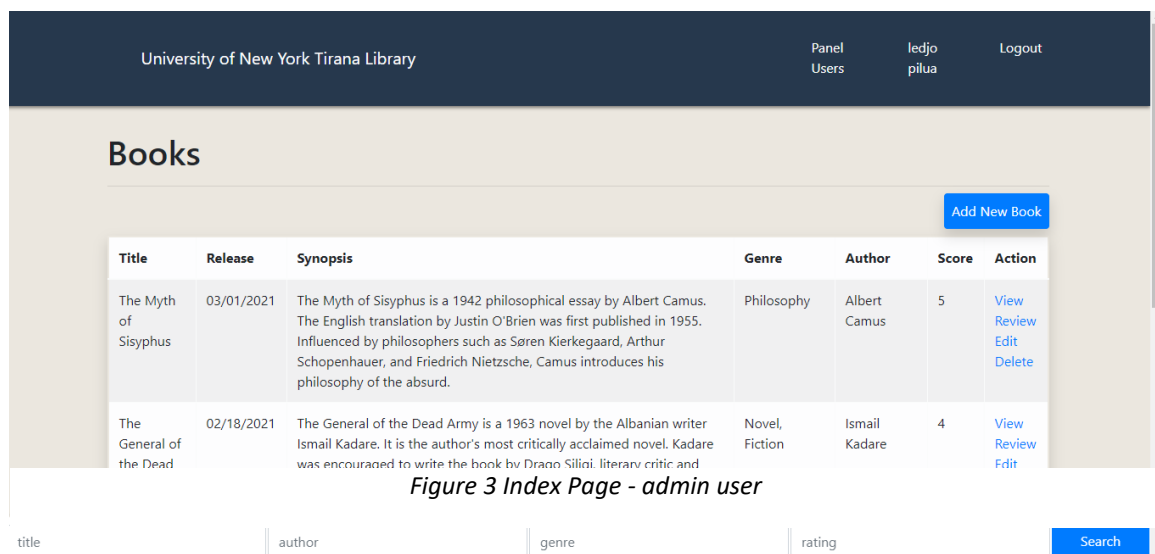


Figure 3 Index Page - admin user

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Panel Users

ledjo pilua

Logout

New Book

Title

Release Date

Synopsis

Thumbnail

Genre

Author

house

Create

Cancel

Figure 8 Add a new book

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Panel Users

ledjo pilua

Logout

Modifying Existing Book

Title

Release Date

Synopsis

Thumbnail

Genre

Rating

The Myth of Sisyphus

03/01/2021

The Myth of Sisyphus is a 1942 philosophical essay by Albert Camus. The English translation by Justin O'Brien was first published in 1955. Influenced by philosophers such as Søren Kierkegaard, Arthur

https://www.adrionltd.com/81616-large_default/the-myth-of-sisyphus.jpg

Philosophy

R

Save

Cancel

Figure 7 Edit book data

Users

Add New User

User	Action
<div>Name: Elon</div> <div>SurName: Musk</div> <div>Email: elon@gmail.com</div>	<div>Delete</div> <div>Update</div>
<div>Name: Uendi</div> <div>SurName: Hoxha</div> <div>Email: uendi@gmail.com</div>	<div>Delete</div> <div>Update</div>

Figure 6 Admin controls on users