Harvard Extension School

Cambridge, MA 02138 Spring Term, 2017

Part 2 - Assignment 2 (Spring Security)

CSCI E-57
Java Enterprise Development and the Spring Framework

Submitted to: Dr. Vitaly Yurik Professor

Submitted by:

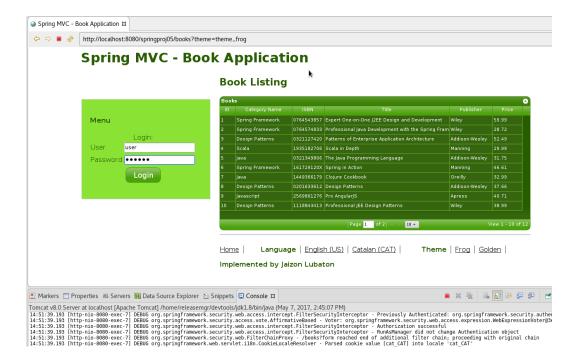
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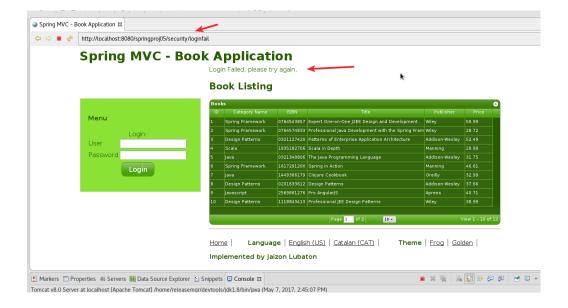
Introduction

Spring security is one of the most important modules of the Spring Framework, and we added this feature to the web application that we previously created in Part 2 – Assignment 1. I also prepared a video to supplement this document https://youtu.be/OS5RX2ayq6k.

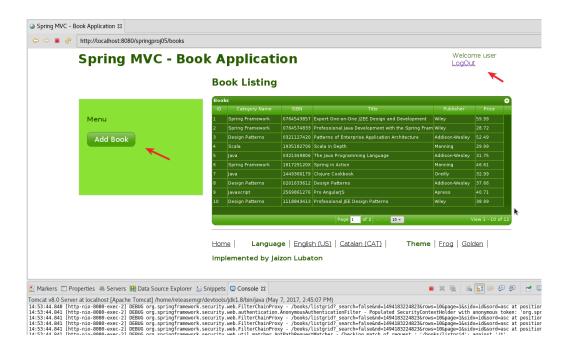
1. The initial screen of the application is accessible to the public, and no user is logged in. The login form is displayed and prompts the user to log in.



2. The user entered a wrong password, and the error message "Login failed, please try again." is displayed. The new URL is http://localhost:8080/springproj05/security/loginfail.



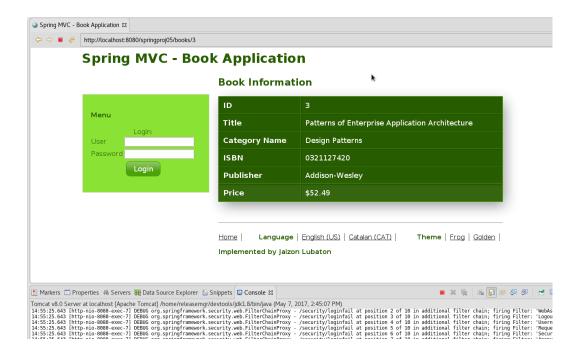
3. The user made a second attempt to login and was successful. The login form disappeared, then the username is displayed at the top right corner with the logout link.



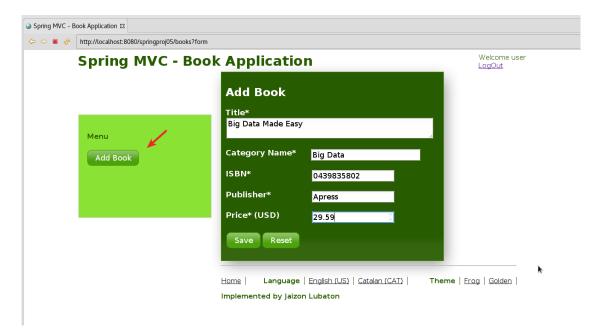
4. The user is logged in, and clicking a record in the grid table will show a more detailed view of the book. Note the "Add Book" and "Edit Book" buttons are both visible.



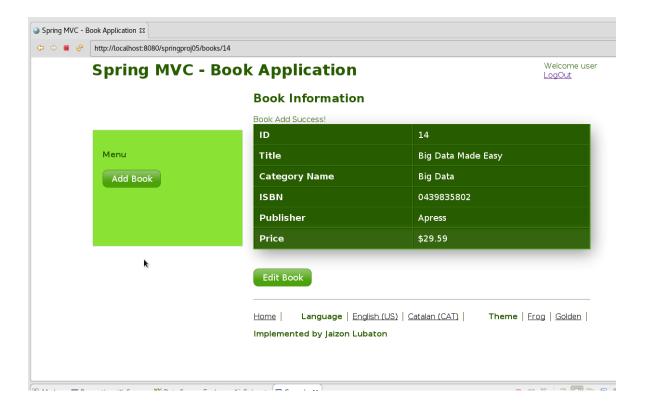
5. After clicking log out, let us again view the previously displayed page, and we see the login page is again visible, but the "Add Book" and 'Edit Book" buttons disappeared. It is because the user is not logged in.



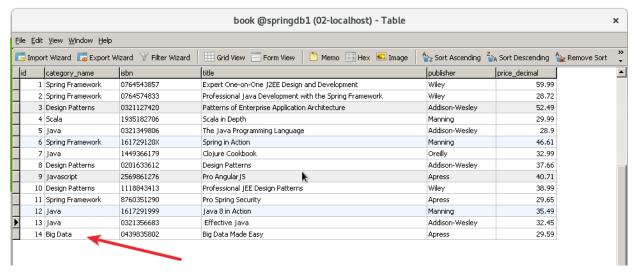
6. We again login to the web application and "New Book" button is visible and let's click it. Let us try adding a new book titled "Big Data Made Easy," then click save.



7. The new book was saved by the web application.

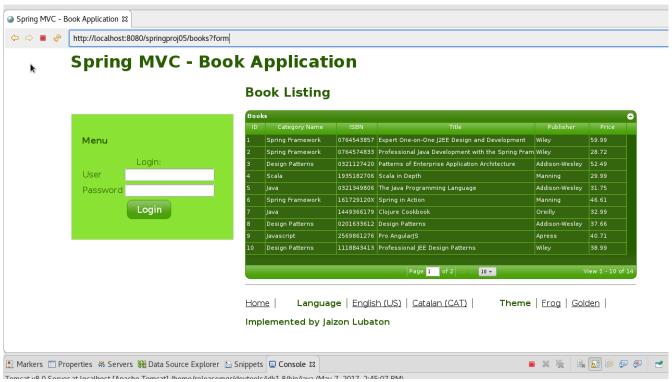


8. We can confirm the addition of the new record, "Big Data Made Easy" by checking it in the database.

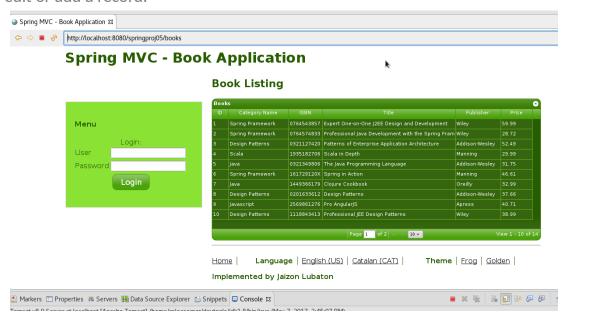


Demonstration the Use of Annotation to Secure Controller Methods

9. To test the Controller method security, In the browser address bar, we type http://localhost:8080/springproj05/book?form.

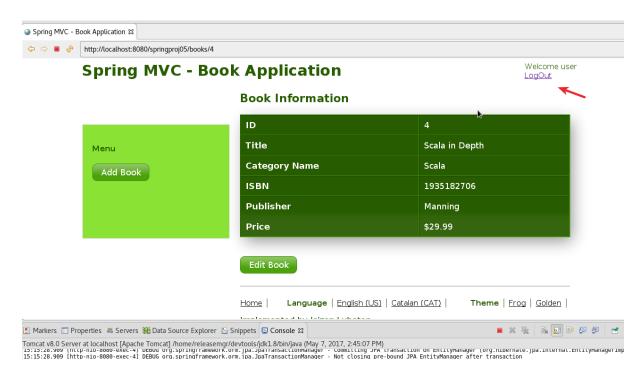


10. However, after typing the URL shown above, we are redirected to the URL http://localhost:8080/springproj05/books. This event demonstrates that anonymous users cannot edit or add a record.

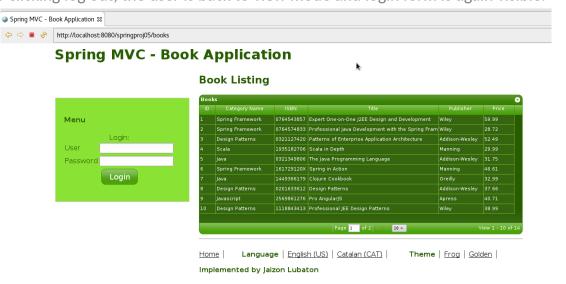


Using the Logout Link

11. When the user is logged in, the log out link appears at the right most corner, as shown in the picture below.



12. After clicking log out, the user is back to view mode and login form is again visible.



Thank You,
Jaizon Lubaton