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CS 480 - 4/6/2016

**Project 2**

The bookstore folder contains the Eclipse project and the database file.

To begin the application, start in "Login.jsp" and the user will be greeted with a typical login page and an option to sign up if the user has not created an account. For this example, the following credentials are provided:

user: bob, password: pass
user: sam, password: admin1

where bob is a normal type user and sam is an administrator.

Upon clicking the "Submit" button, the user will be presented with either the ShowBooks.jsp page or AdminHome.jsp page depending on their permissions. It can be noted that nearly all the pages will display the username and a "logout" button. The logout button will end the user's session and bring them back to the Login.jsp page. Any orders that were not purchased at checkout, are stored on the database.

A normal user is limited to selecting and purchasing books. If they somehow gain access to any administrator page, they are directed to the 401.jsp page which displays a 401 error message and a link to the Login.jsp page.

An administrator is only limited to user management and statistic pages. After successfully logging in, the administrator is presented with a welcome screen and the option to manage users or view statistics. If the administrator selects the user management screen, he is presented a table of current users. He can choose to either add a new user (which will redirect to Registration.jsp), delete a user (this will redirect to DeleteUser.jsp), or modify the user's information (this will redirect to ModifyUser.jsp).

If the administrator decides to delete a user, it will direct to the DeleteUser.jsp and then direct back to the user management page. If the administrator chooses to modify the user's information, he is taken to ModifyUser.jsp where he can edit a form that contains pre-existing information (which are the results of the query based on the username of the user he wished to modify). Once he's satisfied with his changes, he can either continue to modify the changes or go back to the user management page.

If the administrator selects to view statistics, he will be taken to Statistics.jsp which gives him the option to view the order history of all users. If he selects this, he will be directed to OrderHistory.jsp where he can view all of the orders made by the users.

**Comments**

I borrowed code from the project 1 solutions to implement into my code so that I could progress into the actual project constraints itself.

The submitted project is also incomplete as I did not get a chance to finish working on the Statistics portion of the project entirely. The Registration.jsp page also had some issues, for instance, prior to implementing the administrator portion of the project, I was able to add a user and the necessary information. However, some issues in the code now no longer allows the administrator to add new users nor the any new users to sign up.

The statistics portion is also incomplete. The order history portion asks to parse the query using a username and date as a constraint, but I was unable to implement this properly. I also was unable to work on the order statistics entirely.

Overall, this project was slightly easier as I was able to take my understanding from the previous project and also continue my work. However, due to the workload that I currently have from several classes, the deadline (even with the extension) made it difficult for me to complete the project entirely.

I think the best way to have presented this project was to include the project segments on the syllabus (or include all of the project segments into one handout and assign deadlines for each segment).