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COEN 160

Final Project: Online Bookstore

Description:

We have designed and created a simulation of an online bookstore for our project. The books available have been taken from the selection provided on Amazon.com. The system allows the user to perform the use cases listed below, but provides similar functionality to the store provided by Amazon and many other book distributers. When an order gets placed, the user will have to put in dummy information for the sake of proving the functionality of the system, but real credit and debit card information should not be placed into the application, as well as real shipping information or password and account information similar to what you use in real life. Otherwise, run the “Sys” class given in the source code and you should be able to use it.

Use Cases:

Log in to Account

* Preconditions:
  1. User is not logged in to their account
* Steps:
  1. User locates “Log In” button in top right of screen
  2. User clicks said button
  3. User enters his/her username in the “username” field and password in the “password” field, and presses enter
  4. If username and password are correct, user is successfully logged in. Otherwise, user must attempt to log in again with the correct username and password
* Postconditions:
  1. User is logged into account

Logout of Account

* Preconditions:
  1. User is logged in to their account
* Steps:
  1. User locates “Logout” option at top of screen in top right corner
  2. User clicks “Logout” button
* Postconditions:
  1. User is now logged out of account

Create Account

* Preconditions:
  1. User needs a new account. If user is attempting to make an extra account, user must be signed out of all other accounts he/she has
* Steps:
  1. User locates and selects “Log in” in top right
  2. User locates and selects “Create Account” under the “password” field of the Log In screen
  3. User inputs a new username into the “username” field. If the username is unique to the system and is at least 3 characters long and at most 20 characters, the user will be allowed to continue. If one or both of those two cases fail, the user will attempt to retry and enter a proper username
  4. User inputs a password for this new username. If the password is not between 6 and 20 characters, the user will not be allowed to continue, and will force the user to retry the password creation process. Once they are successful, they will continue.
  5. The user will then create a “Secret Question” and “Answer” for the password reset process. As long as both are at least 6 characters long, the system will accept both. Otherwise, the user will be forced to retry the process.
  6. Once all of those fields are filled out and confirmed, the user will be able to press create account at the bototm of the screen.
* Postconditions:
  1. User has created an account, but is not logged in

Forgot Password

* Preconditions:
  1. User already has an account, but forgot their password and is not signed in
* Steps:
  1. User locates and selects “Log in” in top right
  2. User locates and selects “Forgot Password” under the “password” field of the Log In screen
  3. User enters their username and presses “continue”. If the username does not match one in the system, the system will return to the same screen so the user has the opportunity to retry that process.
  4. The user will then be prompted with their “Secret Question”. If their answer is not their “Answer” provided during account creation, they will not be allowed to continue with this process, and will be sent back to the home screen with an error message.
  5. If the user successfully enters their answer, they will be prompted to enter a new password that must match the conditions determined in the “Create Account” use case
  6. The user will then click the “change password” button.
* Postconditions:
  1. User is still logged out, but has changed their password

View Recent Orders

* Preconditions:
  1. User is logged in
* Steps:
  1. User locates and clicks “Your Account”
  2. User locates and clicks “View Recent Orders”
* Postconditions:
  1. User can view his/her recent orders, if he/she has made any

Change Account Settings

* Preconditions:
  1. User is logged in
* Steps:
  1. User locates and clicks “Your Account”
  2. User locates and clicks “Change Settings”
  3. User alters the values that he/she would like to change
* Postconditions:
  1. User now has altered their account and he/she are still signed in

Search for books

* Preconditions:
  1. None.
* Steps:
  1. User locates search field towards top of screen
  2. User enters search query into search field
  3. User presses “search” button
* Postconditions:
  1. User can now view search results, and can easily research through the same process

Display Catalog

* Preconditions:
  1. None
* Steps:
  1. User locates and clicks “View All Books”
* Postconditions:
  1. User can now view the entire catalog

View Book

* Preconditions:
  1. User is either viewing entire catalog or just made a search and is viewing the results
* Steps:
  1. User selects a book by clicking on the button on the book field
* Postconditions:
  1. User is now viewing the properties of that book

Add book to cart

* Preconditions:
  1. User is either viewing entire catalog, just made a search and is viewing the results, or is viewing a book
* Steps:
  1. User locates and clicks “Add to Cart”
* Postconditions:
  1. Book is now in user’s cart
  2. User stays on the screen he/she clicked the button “Add to Cart” on. They will be alerted that the book is now in their cart. To view Cart, they must proceed to the following use case

View Cart

* Preconditions:
  1. None
* Steps:
  1. User locates and clicks “View Cart”
* Postconditions:
  1. User can view his/her cart, if he/she has added any books to cart

Remove from cart

* Preconditions:
  1. User is on the “View Cart” screen, and has a book in his/her cart
* Steps:
  1. User locates book he/she would like to remove
  2. User locates and clicks “Remove from Cart” next to that book item
* Postconditions:
  1. The cart screen updates to its new contents, showing the user that the book is no longer in his/her cart

Checkout

* Preconditions:
  1. User has at least one book in his/her cart
* Steps:
  1. User locates and clicks “View Cart” if not on that screen already
  2. User locates and clicks “Checkout”
  3. If user is not signed into an account, they will be redirected to the login screen, where the user can sign in using the same control flow as the “Log In to Account” use case. If the user does not have an account, they can create an account from that screen, and retry this use case from the beginning.
  4. Once the user is signed into an account, the user will have to enter their personal information for shipping addresses and billing information
  5. Once the system checks the validity of those values, it will allow the user to press “Order Summary” at the bottom
  6. Order Summary will summarize the order into a more readable format, and then contain a button to edit the contents of the order, a button to edit the personal information and another to place the order. If the user selects place order, the order will be “placed” and the order summary will be stored in the background so it can be viewed by the “View Recent Orders” use case
* Postconditions:
  1. User has placed the order

Class Diagram:

