

Test Case Template

Company Name and Logo

JUNKYARD

Testing Team

Test Case Template

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1. Test Information

1.1. Test type

Functional Test

1.2. System Under Test

System name: Book Store

Version: 1.0

1.3. Test Personnel

Name: Mira Yolova Date: 28.12.2018 Time/h: 12:00

Name: Kaloyan Manolov Date: 28.12.2018 Time/h: 12:00

2. Test Summary

2.1. Results

Total number of test cases:	60
Total number of test cases passed:	28
Total number of test cases failed:	31
Total number of bugs found:	31

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3. Test Cases

3.1. Home Page

3.1.1. Get book details for book from the front page

Special Instructions: *NONE*

Test Case ID	TC_FUNCT_FRONT_PAGE_BOOK	
Description	Tests whether the books showcased on the front page are programmed correctly.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open home page.	The website's home page is loaded
2	Click on book "Web Database Development: Step by Step".	Show book details for specified book.
3	Check title string and description match the ones on the front page	Title strings and descriptions match
Test verdict	Passed	

3.1.2. Get book details for book from the front page 2

Special Instructions: *NONE*

Test Case ID	TC_FUNCT_FRONT_PAGE_BOOK2	
Description	Tests whether the books showcased on the front page are programmed correctly.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	

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Test Step ID	Test Step Description	Expected Result
1	Open home page.	The website's home page is loaded
2	Click on book "A Sharp Combination".	Show book details for specified book.
3	Check title string and description match the ones on the front page	Title strings and descriptions match
Test verdict	Failed	

Comments: Title string of the selected book is actually "C# - Programming with the Public Beta".

The description shown concerns a third book "A Preview of C#", that doesn't have anything to do with the other two. There is also a typo in the description, as "A Preview of C#" is not put in quotes, which diminishes UX.

3.1.3. Get book details for book from the front page while not logged in

Special Instructions: *NONE*

Test Case ID	TC_FUNCT_FRONT_PAGE_BOOK_NOT_LOGGED	
Description	Tests whether the system's authorisation works correctly.	
Applicable for	Chrome	
Initial Conditions	The user is not logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open home page.	The website's home page is loaded
2	Click on book "MySQL & PHP From Scratch".	The login menu is shown.
Test verdict	Passed	

Comments: The test is automated -> *BookDetailsUserNotLogged.groovy*

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3.1.4. Check front page proper UI 1Special Instructions: *NONE*

Test Case ID	TC_FRONT_PAGE_UI1	
Description	Tests whether the front page provides an easy to use interface.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open home page.	The website's home page is loaded
2	Click on the "Next" button on the bottom of the page.	The user is able to click on the "Next" button without needing to scroll down.
Test verdict	Failed	

3.1.5. Check front page proper UI 2Special Instructions: *NONE*

Test Case ID	TC_FRONT_PAGE_UI2	
Description	Tests whether the front page provides an easy to use interface.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open home page.	The website's home page is loaded
2	Observe sidebar book descriptions.	All books on the sidebar of the front page are provided with a description.
Test verdict	Failed	

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Comments: The middle book “1001 Web Site Construction Tips and Tricks” is annotated by its price, while the other books are provided with a description by what they’re about. This creates a bad UX.

3.1.6. Check front page proper UI 3**Special Instructions:** *NONE*

Test Case ID	TC_FRONT_PAGE_UI3	
Description	Tests whether the front page provides an easy to use interface.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open home page.	The website's home page is loaded
2	Click on a book image from the “Recommended Titles” bar.	The description for that book is shown
3	Click “Home”.	The website's home page is once again loaded
4	Click on a book image from the right sidebar.	The description for that book is shown
Test verdict	Failed	

Comments: In the “Recommended Titles” section of the main page, the book images are clickable and their titles aren’t, while on the sections of the right sidebar of the home page it is the reverse. This results in a counterintuitive UI and bad UX.

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3.2. Sign in

3.2.1. Login as regular user

Special Instructions: *NONE*

Test Case ID	TC_FUNCT_LOGIN_REGULAR_USER	
Description	Tests whether the login works for a non-administrative user.	
Applicable for	Chrome	
Initial Conditions	The user is not logged in. A user with credentials guest/guest exists in the book system.	
Test Step ID	Test Step Description	Expected Result
1	Open the sign in page.	The website's sign-in page is loaded.
2	Enter guest/guest for user credentials.	The password is not entered as plaintext.
3	Click "Login".	The user is logged in as "guest"
Test verdict	Failed	

Comments: The book store system crashes with an ungraceful error, which shows part of the implementation. This is bad both for usability and security. Also on the login page, there are hardcoded user credentials, including such for an administrative user nonetheless! This exemplifies a critical security flaw.

3.2.2. Login as administrator

Special Instructions: *NONE*

Test Case ID	TC_FUNCT_LOGIN_ADMIN_USER	
Description	Tests whether the login works for a non-administrative user.	
Applicable for	Chrome	

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Initial Conditions	The user is not logged in. An administrative user with credentials admin/admin exists in the book system.	
Test Step ID	Test Step Description	Expected Result
1	Open the sign in page.	The website's sign-in page is loaded.
2	Enter admin/admin for user credentials..	The password is not entered as plaintext.
3	Click "Login".	The user is logged in as "admin"
4	Click "Administration".	The user is shown the administration menu
Test verdict	Inconclusive	

Comments: While the test passed the first few times it was run, later on the admin user stopped having administrative privileges, very likely as a result of test 3.2.XX

3.2.3. Login with non-existing user**Special Instructions:** NONE

Test Case ID	TC_FUNCT_LOGIN_USER_NOT_EXIST	
Description	Tests whether the login correctly handles incorrect input	
Applicable for	Chrome	
Initial Conditions	The user is not logged in. A user with username pesho7 does not exist in the book system.	
Test Step ID	Test Step Description	Expected Result
1	Open the sign in page.	The website's sign-in page is loaded
2	Enter pesho7/pesho7 for user credentials.	The password is not entered as plaintext.
3	Click "Login".	The system shows an incorrect login info message
Test verdict	Passed	

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Comments: The test is automated -> *LoginNonExistingUser.groovy***3.2.4. Login with incorrect password****Special Instructions:** *NONE*

Test Case ID	TC_FUNCT_LOGIN_WRONG_PWD	
Description	Tests whether the login correctly handles incorrect password.	
Applicable for	Chrome	
Initial Conditions	The user is not logged in. A user with username gosho and password which does not equal "password" exists in the system	
Test Step ID	Test Step Description	Expected Result
1	Open the sign in page.	The website's sign-in page is loaded.
2	Enter gosho/password for user credentials.	The password is not entered as plaintext.
3	Click "Login".	The system shows an incorrect login info message.
Test verdict	Passed	

3.3. Registration**3.3.1. Register new account****Special Instructions:** *NONE*

Test Case ID	TC_FUNCT_REGISTER_ACC
Description	Tests the registration function
Applicable for	Chrome
Initial Conditions	The user is not logged in. No user with name specified below exists in the

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	system.	
Test Step ID	Test Step Description	Expected Result
1	Open the registration page.	The website's registration page is opened.
2	Enter gosho/gosho for username and password, and non-blank data for the rest of the required fields.	Data is entered successfully, password is not shown in plaintext
3	Click "Register".	A new user is created with credentials gosho/gosho.
4	Click sign in.	The sign in page is opened
5	Enter gosho/gosho for username and password.	Password is not shown in plaintext
6	Click login.	User is logged in successfully with the account gosho
Test verdict	Passed	

3.3.2. Register new account without first name, last name or emailSpecial Instructions: *NONE*

Test Case ID	TC_FUNCT_REGISTER_ACC_MISSING_REQUIRED	
Description	Tests the required fields of the registration function	
Applicable for	Chrome	
Initial Conditions	The user is not logged in. No user with name specified below exists in the system.	
Test Step ID	Test Step Description	Expected Result
1	Open the registration page.	The website's registration page is opened
2	Enter gosho/gosho for username and password, and non-blank data for the rest of the required fields,	Data is entered successfully, password is not shown in plaintext

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	while leaving the "First Name" field blank.	
3	Click the "Register" button.	An error message is shown, saying that a required field has not been filled.
4	Repeat the first three steps for "Last Name" and "Email" fields.	An error message is shown, saying that a required field has not been filled.
Test verdict	Passed	

3.3.3. Register new account with an invalid email**Special Instructions:** *NONE*

Test Case ID	TC_FUNCT_REGISTER_ACC_INVALID_EMAIL	
Description	Tests the validation checks of the registration function	
Applicable for	Chrome	
Initial Conditions	The user is not logged in. No user with name specified below exists in the system.	
Test Step ID	Test Step Description	Expected Result
1	Open the registration page.	The website's registration page is opened
2	Enter gosho/gosho for username and password, and non-blank data for the rest of the required fields, while specifically entering an invalid email address (not in the XXX@YYY.ZZZ format).	Data is entered successfully, password is not shown in plaintext
3	Click the "Register" button.	An error message is shown, saying that the email that has been entered is not a valid email address
Test verdict	Failed	

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3.3.4. Register new account with an existing username**Special Instructions:** *NONE*

Test Case ID	TC_FUNCT_REGISTER_ACC_USER_EXISTS	
Description	Tests the validation checks of the registration function	
Applicable for	Chrome	
Initial Conditions	The user is not logged in. A user with name specified below exists in the system.	
Test Step ID	Test Step Description	Expected Result
1	Open the registration page.	The website's registration page is opened
2	Enter gosho/gosho for username and password, and non-blank data for the rest of the required fields (gosho is already a registered user in the system).	Data is entered successfully, password is not shown in plaintext
3	Click the "Register" button.	An error message is shown, saying that the user we are trying to register already exists in the system
Test verdict	Passed	

Comments: The test is automated -> *RegisterExistingUsername.groovy***3.3.5. Register new account with mismatched passwords****Special Instructions:** *NONE*

Test Case ID	TC_FUNCT_REGISTER_ACC_PWDS_NOT_MATCH	
Description	Tests the validation checks of the registration function	
Applicable for	Chrome	
Initial Conditions	The user is not logged in. A user with name specified below does not exist in	

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	the system.	
Test Step ID	Test Step Description	Expected Result
1	Open the registration page.	The website's registration page is opened
2	Enter gosho/gosho for username and password, and non-blank data for the rest of the required fields, while entering mismatching passwords in the "Password" and "Confirm Password" fields.	Data is entered successfully, password is not shown in plaintext
3	Click the "Register" button.	An error message is shown, saying that the "Password" and "Confirm Password" fields do not match
Test verdict	Passed	

3.3.6. Register new account while logged in as another userSpecial Instructions: *NONE*

Test Case ID	TC_FUNCT_REGISTER_ACC_LOGGED_IN	
Description	Tests the validation checks of the registration function	
Applicable for	Chrome	
Initial Conditions	The user is logged in. A user with name specified below does not exist in the system.	
Test Step ID	Test Step Description	Expected Result
1	Open the registration page.	An error message or redirection page is shown, saying that you cannot register a user while logged in
Test verdict	Failed	

Comments: The system allows you to register a new user while logged in as another user.

Furthermore, when you attempt to register a new user while logged in, this allows you to overwrite

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already existing users, including administrative ones. After you register the “new” user, you are automatically logged in as the new user, something that does not happen when using the normal registration procedure. This effectively allows you to wreak havoc into the whole book system, and delete (by overwriting) whichever existing accounts you want. Another interesting interaction, is that whenever you register a new user while logged in, the credentials for the current user you are logged in change to an unspecified value.

3.4. Edit Profile**3.4.1. Change password****Special Instructions:** *NONE*

Test Case ID	TC_FUNCT_EDIT_PASSWORD	
Description	Tests whether a user’s password can be changed correctly	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Click on “Shopping Cart”	The shopping cart screen opens
2	Click on user’s username	The edit profile screen opens
3	In the “Password” field enter a password string that differs from the user’s current password.	Password is not shown in plaintext
4	In the “Confirm Password” field enter the same password as above	Password is not shown in plaintext
5	Click on “Update”	The user’s password is updated
6	Click on “Sign in”	Sign in screen is opened
7	Click on “Logout”	User is logged out of the system
8	Enter the same username with the new password	Password is not shown in plaintext
9	Click on “Login”	User is logged in successfully

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Test verdict	Failed
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Comments: The test fails on step 4, since there isn't a "Confirm Password" field in the edit profile screen. This is bad for usability and security, since a simple typo while writing the new password means that the user will be locked out of their account. Another usability flaw that this test shows, is that the only way to reach the edit profile screen, is by first going to the shopping cart page, despite the two functionalities not being related in any way.

3.4.2. Change first name, last name, or email**Special Instructions:** *NONE*

Test Case ID	TC_EDIT_PERSONAL_DATA	
Description	Tests whether a user's personal data can be edited correctly	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Click on "Shopping Cart"	The shopping cart screen opens
2	Click on user's username	The edit profile screen opens
3	In the "First Name" field, change the value to "test".	
4	Click on "Update"	The user's first name is updated successfully
5	Repeat the first four steps for "Last Name" and "Email"	The information in those fields is updated successfully as well
Test verdict	Failed	

Comments: The test fails on step 4, because the book system requires you to update your password as well, every time you want to update your profile. This is an unwarranted interaction, and therefore creates a bad UX.

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3.4.3. Change bank account info**Special Instructions:** *NONE*

Test Case ID	TC_EDIT_BANK_ACCOUNT	
Description	Tests whether a user's bank account info can be edited correctly	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Click on "Shopping Cart"	The shopping cart screen opens
2	Click on user's username	The edit profile screen opens
3	In the "Credit Card Type" field, select "Visa". In the "Credit Card Number" field, change the value to "123"	
4	Click on "Update"	The user's bank account data is updated successfully.
5	Click on "Shopping Cart"	The shopping cart screen opens
6	Check that the bank account data is not shown in plaintext	
Test verdict	Failed	

Comments: The test fails on step 4, because the book system requires you to update your password as well, every time you want to update your profile. The test notably also fails on step 6, because the bank account data is shown in plaintext, an absolutely critical security flaw.

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3.5. Shopping

3.5.1. Add negative quantity of books

Special Instructions: *NONE*

Test Case ID	TC_FUNCT_NEGATIVE_QUANTITY	
Description	Tests the functionality of adding negative quantity of books in the shopping cart.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open book detail page for book "Beginning Active Server Pages 3.0".	The book detail page for "Beginning Active Server Pages 3.0" is loaded.
2	Choose quantity -1.	
3	Click button "Add to Shopping Cart".	The system is supposed to deny the wanted change.
Test verdict	Failed	

Comments: The book "Beginning Active Server Pages 3.0" is added to the shopping cart with quantity -2. The total price for the book is a negative number -> -63.97.

3.5.2. Add item to shopping cart

Special Instructions: *NONE*

Test Case ID	TC_FUNCT_ADD_ITEM	
Description	Tests the functionality of adding books to the shopping cart.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	

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Test Step ID	Test Step Description	Expected Result
1	Open book detail page for book "Web Development with Java Server Pages".	The book detail page for "Web Development with Java Server Pages" is loaded.
2	Choose quantity 3.	
3	Click button "Add to Shopping Cart".	Three books "Web Development with Java Server Pages" should be added to the shopping cart.
Test verdict	Failed	

Comments: The book "Web Development with Java Server Pages" is added to the shopping cart with quantity 2.

However, when the quantity of a book is 1, the right number is displayed in the shopping cart.

The test is automated -> *AddBook.groovy*

3.5.3. Add book with floating number

Special Instructions: *NONE*

Test Case ID	TC_FUNCT_FLOAT_BOOKS	
Description	Tests the functionality of adding a book that has floating number for quantity in the shopping cart.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open book detail page for book "Beginning ASP Databases".	The book detail page for "Beginning ASP Databases" is loaded.
2	Choose quantity 1.5.	
3	Click button "Add to Shopping Cart".	The system is supposed to deny the wanted change.
Test verdict	Passed	

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Comments: The test is automated -> *AddBookFloatingNumber.groovy***3.5.4. Add string for quantity****Special Instructions:** *NONE*

Test Case ID	TC_FUNCT_STRING_QUANTITY	
Description	Tests the functionality of adding a string for the quantity for a book.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open book detail page for book "Beginning ASP Databases".	The book detail page for "Beginning ASP Databases" is loaded.
2	Choose "a" for quantity .	
3	Click button "Add to Shopping Cart".	The system is supposed to deny the wanted change.
Test verdict	Passed	

3.5.5. Total price for a book**Special Instructions:** *NONE*

Test Case ID	TC_FUNCT_TOTAL_PRICE_BOOK	
Description	Tests if the calculations of the total price for a book in the shopping cart are correct.	
Applicable for	Chrome	
Initial Conditions	The user is logged in. Two books "Mastering ColdFusion 4.5" are added in the shopping cart.	
Test Step ID	Test Step Description	Expected Result

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1	Open shopping cart page.	The shopping cart page is loaded.
2	Check total for the book "Mastering ColdFusion 4.5".	Total for the book "Mastering ColdFusion 4.5" should be 79.98.
Test verdict	Failed	

Comments: Total for the book "Mastering ColdFusion 4.5" is 79.99. The same problem occurs when the user adds a negative quantity of a book. However, in that case the total price for the book is decreased with 0.01.

The test is automated -> *TotalPriceBook.groovy*

3.5.6. Total price in shopping cart

Special Instructions: NONE

Test Case ID	TC_FUNCT_TOTAL_PRICE	
Description	Tests if the calculations of the total price in the shopping cart are correct.	
Applicable for	Chrome	
Initial Conditions	The user is logged in. Two books "Mastering ColdFusion 4.5" are added in the shopping cart.	
Test Step ID	Test Step Description	Expected Result
1	Open shopping cart page.	The shopping cart page is loaded.
2	Compare "Total" for the shopping cart with "Total" for the book "Mastering ColdFusion 4.5".	They should be equal.
Test verdict	Failed	

Comments: "Total" for the shopping cart is 80.18, while "Total" for the book "Mastering ColdFusion 4.5" is 79.99.

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3.5.7. Add same book multiple times**Special Instructions:** *NONE*

Test Case ID	TC_FUNCT_MULT_SAME_BOOK	
Description	Tests the functionality of adding the same book multiple times in the shopping cart.	
Applicable for	Chrome	
Initial Conditions	The user is logged in. One book "Programming Perl (3rd Edition)" is added in the shopping cart.	
Test Step ID	Test Step Description	Expected Result
1	Open shopping cart page.	The shopping cart page is loaded.
2	Add one book "Programming Perl (3rd Edition)" to shopping cart.	The quantity of the book "Programming Perl (3rd Edition)" is equal to 2.
Test verdict	Failed	

Comments: The quantity for the book "Programming Perl (3rd Edition)" is not equal to 2. Instead, a new row for the book appears with the quantity 1.

3.5.8. Update book**Special Instructions:** *NONE*

Test Case ID	TC_FUNCT_UPDATE_BOOK	
Description	Tests the functionality of updating the quantity of a book in the shopping cart.	
Applicable for	Chrome	
Initial Conditions	The user is logged in. One book "Programming Perl (3rd Edition)" is added in the shopping cart.	
Test Step ID	Test Step Description	Expected Result
1	Open shopping cart page.	The shopping cart page is loaded.

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2	Click on "Details".	Details for the book "Programming Perl (3rd Edition)" should be displayed.
3	Change quantity from 1 to 2.	
4	Click "Update" button.	The new quantity should be 2.
Test verdict	Failed	

Comments: The quantity for the book "Programming Perl (3rd Edition)" is 3.

The test is automated -> *UpdateBook.groovy*

3.5.9. Cancel change for book

Special Instructions: *NONE*

Test Case ID	TC_FUNCT_CANCEL_BOOK	
Description	Tests the functionality of cancelling the wanted change for the quantity of a book in the shopping cart.	
Applicable for	Chrome	
Initial Conditions	The user is logged in. Two books "Mastering ColdFusion 4.5" are added in the shopping cart.	
Test Step ID	Test Step Description	Expected Result
1	Open shopping cart page.	The shopping cart page is loaded.
2	Click on "Details".	Details for the book Mastering ColdFusion 4.5" should be displayed.
3	Change quantity from 2 to 1.	
4	Click "Cancel" button.	Changes should not be made.
Test verdict	Passed	

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3.5.10. Delete book**Special Instructions:** *NONE*

Test Case ID	TC_FUNCT_DELETE_BOOK	
Description	Tests the functionality of deleting a book in the shopping cart.	
Applicable for	Chrome	
Initial Conditions	The user is logged in. Two books "Mastering ColdFusion 4.5" are added in the shopping cart.	
Test Step ID	Test Step Description	Expected Result
1	Open shopping cart page.	The shopping cart page is loaded.
2	Click on "Details".	Details for the book Mastering ColdFusion 4.5" should be displayed.
3	Click "Delete" button.	The book should be deleted from the shopping cart.
Test verdict	Passed	

Comments: The test is automated -> *DeleteBook.groovy***3.5.11. "Checkout" option****Special Instructions:** *NONE*

Test Case ID	TC_FUNCT_CHECKOUT	
Description	Tests the functionality of checking out after adding books in the shopping cart.	
Applicable for	Chrome	
Initial Conditions	The user is logged in. One book "Beginning Active Server Pages 3.0" is added in the shopping cart.	
Test Step ID	Test Step Description	Expected Result
1	Open shopping cart page.	The shopping cart page is loaded.

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2	Try to checkout.	Payment options should be displayed..
Test verdict	Failed	

Comments: "Checkout" option is not available.

3.6. Search/Advanced Search

3.6.1. Search without title

Special Instructions: *NONE*

Test Case ID	TC_FUNCT_SEARCH_NO_TITLE	
Description	Tests the functionality of searching a book without title.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open Home page.	The Home page is loaded.
2	Choose "Programming" for the field "Category".	
3	Click "Search" button.	The results should be in the category "Programming".
Test verdict	Failed	

Comments: The results are in the category "Databases".The test is automated -> *SearchWithoutTitle.groovy*

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3.6.2. Search with titleSpecial Instructions: *NONE*

Test Case ID	TC_FUNCT_SEARCH_TITLE	
Description	Tests the functionality of searching a book with title.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open Home page.	The Home page is loaded.
2	Insert "web" for the field "Title".	
3	Click "Search" button.	All books with the word "web" in their title should be shown.
Test verdict	Failed	

Comments: The books with the word "web" in their title are 11. However, only 2 books are shown.**3.6.3. Advanced search with author**Special Instructions: *NONE*

Test Case ID	TC_FUNCT_ADV_SEARCH_AUTHOR	
Description	Tests the functionality of advanced searching with author.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open Home page.	The Home page is loaded.
2	Choose "Advanced Search" option.	"Advanced Search" menu is displayed.

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3	Insert "David" for the field "Author".	
4	Click "Search" button.	All books with author "David" should be shown.
Test verdict	Failed	

Comments: Only 1 book is shown, although there are 3 books with author David.

3.6.4. Advanced search with min and max price

Special Instructions: *NONE*

Test Case ID	TC_FUNCT_ADV_SEARCH_MIN_MAX_PRICE	
Description	Tests the functionality of advanced searching with determined min and max price.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open Home page.	The Home page is loaded.
2	Choose "Advanced Search" option.	"Advanced Search" menu is displayed.
3	Insert "20" for the field "Price more then" and "30" for the field "Price less then".	
4	Click "Search" button.	All books with price more than 20 and less than 30 should be shown.
Test verdict	Failed	

Comments: Only 2 books are shown, although there are 4 books with price more than 20 and less than 30.

The fields "Price more then" and "Price more then" in the advanced search should be "Price more than" and "Price more than". This is a crucial flaw as it affects the usability of the site.

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3.7. Book Details

3.7.1. Showing author name

Special Instructions: *NONE*

Test Case ID	TC_FUNC_AUTHOR_NAME	
Description	Tests the functionality of voting for a particular book.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open book detail page for "C# - Programming with the Public Beta".	The book detail page for "C# - Programming with the Public Beta" is loaded.
2	Check author names.	Each name should be shown once.
Test verdict	Failed	

Comments: The author Burt Harvey is shown twice. The same problem occurs with the following books:

- 1) "Mastering ColdFusion 4.5" -> author Kristin Motlagh is shown twice.
- 2) "Beginning ASP Databases" -> author John Kaufman is shown twice.
- 3) "Flash 4 Magic (WITH CD-ROM)" -> author David Emberton is shown twice.

3.7.2. Voting

Special Instructions: *NONE*

Test Case ID	TC_FUNC_VOTE
Description	Tests the functionality of voting multiple times for a particular book.
Applicable for	Chrome

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Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open book detail page for "C# - Programming with the Public Beta".	The book detail page for "C# - Programming with the Public Beta" is loaded.
2	Choose "Good" for the field "Your Rating".	
3	Click "Vote" button.	The vote is submitted in the system.
4	After voting, choose "Very Good" for the field "Your Rating".	
5	Click "Vote" button.	The action should not be allowed by the system.
Test verdict	Failed	

Comments: The user can vote for "C# - Programming with the Public Beta" more than once.

3.7.3. Number of votes

Special Instructions: NONE

Test Case ID	TC_FUNC_NUMBER_VOTES	
Description	Tests the functionality of voting for a particular book.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open book detail page for "Beginning Active Server Pages 3.0".	The book detail page for "Beginning Active Server Pages 3.0" is loaded.
2	Choose "Good" for the field "Your Rating".	
3	Click "Vote" button.	The vote is submitted in the system and "Total Votes" should be increased with

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		1.
Test verdict	Failed	

Comments: The number of votes for "Beginning Active Server Pages 3.0" is increased with 2.

3.7.4. Rating

Special Instructions: *NONE*

Test Case ID	TC_FUNC_RATING	
Description	Tests the functionality of rating a particular book.	
Applicable for	Chrome	
Initial Conditions	The user is logged in.	
Test Step ID	Test Step Description	Expected Result
1	Open book detail page for "Oracle8i Web Development ".	The book detail page for "Oracle8i Web Development " is loaded.
2	Choose "Good" for the field "Your Rating".	
3	Click "Vote" button.	The vote is submitted in the system.
4	Choose "Excellent" for the field "Your Rating".	
5	Click "Vote" button.	Current rating is more stars than the previous one.
Test verdict	Failed	

Comments: The rating from the first vote was 2 stars. The rating from the second vote was 1 star.

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3.8. Administration

3.8.1. Add new member

Special Instructions: *NONE*

Test Case ID	TC_FUNC_ADM_NEW_MEMBER	
Description	Tests the functionality of adding a new member.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Members" from the administration menu.	Members are displayed.
3	Click "Insert" button.	A page for adding a new member is displayed.
4	Insert gosho for "Login" and non-blank data for the other required fields.	Data is entered successfully.
5	Click "Insert" button.	The new member is added successfully.
Test verdict	Passed	

3.8.2. Add new order for member

Special Instructions: *NONE*

Test Case ID	TC_FUNC_ADM_INSERT_ORDER_MEMBER	
Description	Tests the functionality of adding a new order for a particular member.	
Applicable for	Chrome	

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Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Orders" from the administration menu.	Orders for all members are displayed.
3	Click "Insert" button.	A page for adding a new order is displayed.
4	Insert gosho for "Member", "1001 Web Site Construction Tips and Tricks" for "Item" and 2 quantity.	Data is entered successfully.
5	Click "Insert" button.	The new order is added successfully.
Test verdict	Failed	

Comments: The added item in the shopping cart is "Web Database Development : Step by Step" and the quantity is 3.

3.8.3. Update order**Special Instructions:** NONE

Test Case ID	TC_FUNC_ADM_UPDATE_ORDER	
Description	Tests the functionality of updating an existing order.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Orders" from the administration menu.	Orders for all members are displayed.
3	Click "Edit" button.	A page for editing an order is displayed.
4	Insert "1001 Web Site Construction Tips and Tricks" for "Item" and 6	Data is entered successfully.

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	quantity.	
5	Click "Update" button.	The order is changed successfully.
Test verdict	Failed	

Comments: The item in the shopping cart is "1001 Web Site Construction Tips and Tricks for".
However, the quantity is equal to 5.

3.8.4. Cancel order**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_CANCEL_ORDER	
Description	Tests the functionality of cancelling an order.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Orders" from the administration menu.	Orders for all members are displayed.
3	Click "Edit" button.	A page for editing an order is displayed.
4	Insert data in the fields.	Data is entered successfully.
5	Click "Cancel" button.	The order is cancelled successfully.
Test verdict	Passed	

3.8.5. Delete order**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_DELETE_ORDER
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Description	Tests the functionality of deleting an order.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Orders" from the administration menu.	Orders for all members are displayed.
3	Click "Edit" button.	A page for editing an order is displayed.
4	Click "Delete" button.	The order is deleted successfully.
Test verdict	Passed	

3.8.6. Search order**Special Instructions:** NONE

Test Case ID	TC_FUNC_ADM_SEARCH_ORDER	
Description	Tests the functionality of searching an order.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Orders" from the administration menu.	Orders for all members are displayed.
3	Choose All for "Item" and gosho for "Member".	
4	Click "Search" button.	All orders for member gosho are shown.
Test verdict	Failed	

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Comments: The results are for member ivan.The test iis automated -> *SearchOrder.groovy***3.8.7. Update book****Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_UPDATE_BOOK	
Description	Tests the functionality of updating the information for a book from the administrator.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Books" from the administration menu.	All books are displayed.
3	Click "Edit" button for the book "Mastering ColdFusion 4.5".	A page for editing "Mastering ColdFusion 4.5" is displayed.
4	Delete Arman Danesh as author and change price to 19.99.	
5	Click "Update" button.	The book is updated successfully.
Test verdict	Passed	

3.8.8. Cancel edit for book**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_CANCEL_EDIT_BOOK
Description	Tests the functionality of cancelling edit for a book from the administrator.

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Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Books" from the administration menu.	All books are displayed.
3	Click "Edit" button for the book "Mastering ColdFusion 4.5".	A page for editing "Mastering ColdFusion 4.5" is displayed.
4	Change price to 10.99.	
5	Click "Cancel" button.	The edit for a book is cancelled successfully.
Test verdict	Passed	

3.8.9. Delete book**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_DELETE_BOOK	
Description	Tests the functionality of deleting a book from the administrator.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Books" from the administration menu.	All books are displayed.
3	Click "Edit" button for the book "Mastering ColdFusion 4.5".	A page for editing "Mastering ColdFusion 4.5" is displayed.
4	Click "Delete" button.	The book is deleted successfully.

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Test verdict	Passed
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3.8.10. Search for book**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_SEARCH_BOOK	
Description	Tests the functionality of searching a book from the administrator.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Books" from the administration menu.	All books are displayed.
3	Choose Programming for "Category" and Yes for "Recommended".	
4	Click "Search" button.	Books, which are recommended and are in the category "Programming" are displayed.
Test verdict	Passed	

3.8.11. Add new book**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_ADD_BOOK
Description	Tests the functionality of adding a new book from the administrator.

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Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Books" from the administration menu.	All books are displayed.
3	Click "Add new" button.	A page for adding a new book is displayed.
4	Insert non-blank data for the required fields.	Data is entered successfully.
5	Click "Update" button.	The new book is added successfully.
Test verdict	Passed	

3.8.12. Add new category**Special Instructions:** NONE

Test Case ID	TC_FUNC_ADM_ADD_CATEGORY	
Description	Tests the functionality of adding a new category from the administrator.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Categories" from the administration menu.	All categories are displayed.
3	Click "Insert" button.	A page for adding a new category is displayed.
4	Insert Maths for "Name".	

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5	Click "Insert" button.	The new category is added successfully.
Test verdict	Passed	

3.8.13. Add existing category**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_ADD_EXIST_CATEGORY	
Description	Tests the functionality of adding an existing category from the administrator.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Categories" from the administration menu.	All categories are displayed.
3	Click "Insert" button.	
4	Insert Programming for "Name".	
5	Click "Insert" button.	The update is not successful.
Test verdict	Failed	

Comments: The category "Programming" is added successfully.**3.8.14. Update category****Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_UPDATE_CATEGORY
Description	Tests the functionality of updating an existing category from the administrator.

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Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Categories" from the administration menu.	All categories are displayed.
3	Click "HTML & Web design".	
4	Insert HTML for "Name".	
5	Click "Update" button.	The category is updated successfully.
Test verdict	Passed	

3.8.15. Add new editorial**Special Instructions:** NONE

Test Case ID	TC_FUNC_ADM_ADD_EDITORIAL	
Description	Tests the functionality of adding a new editorial from the administrator.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Editorials" from the administration menu.	Editorials are displayed.
3	Click "Insert".	
4	Insert non-blank data for the required fields.	Data is entered successfully.
5	Click "Insert" button.	The editorial is added successfully.

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Test verdict	Passed
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3.8.16. Add existing editorial**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_ADD_EXIST_EDITORIAL	
Description	Tests the functionality of adding an existing editorial from the administrator.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Editorials" from the administration menu.	Editorials are displayed.
3	Click "Insert".	
4	Insert the same data as for the editorial "Flash 4 Magic".	
5	Click "Insert" button.	The editorial is not added successfully.
Test verdict	Failed	

3.8.17. Update editorial**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_UPDATE_EDITORIAL	
Description	Tests the functionality of updating an editorial from the administrator.	
Applicable for	Chrome	

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Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Editorials" from the administration menu.	Editorials are displayed.
3	Click "Flash 4 Magic".	
4	Choose New for "Editorial Category".	
5	Click "Update" button.	The editorial is updated successfully.
Test verdict	Passed	

3.8.18. Add new editorial category**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_ADD_EDIT_CATEGORY	
Description	Tests the functionality of adding a new editorial category from the administrator.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Editorial Categories" from the administration menu.	Editorial categories are displayed.
3	Click "Insert".	
4	Insert Monthly for "Name".	
5	Click "Insert" button.	The editorial category is added successfully.

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Test verdict	Passed
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3.8.19. Update category**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_UPDATE_CATEGORY	
Description	Tests the functionality of updating an editorial category from the administrator.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Editorial Categories" from the administration menu.	Editorial categories are displayed.
3	Click "New".	
4	Insert Old for "Name".	
5	Click "Update" button.	The editorial category is changed successfully.
Test verdict	Passed	

3.8.20. Add card type**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_INSERT_CARD_TYPE
Description	Tests the functionality of adding a card type from the administrator.
Applicable for	Chrome

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Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Card Types" from the administration menu.	Card types are displayed.
3	Click "Insert".	
4	Insert Maestro for "Name".	
5	Click "Insert" button.	The card type is added successfully.
Test verdict	Passed	

3.8.21. Update card type**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_UPDATE_CARD_TYPE	
Description	Tests the functionality of updating a card type from the administrator.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Card Types" from the administration menu.	Card types are displayed.
3	Click "Visa".	
4	Insert Maestro for "Name".	
5	Click "Update" button.	The card type is updated successfully.
Test verdict	Passed	

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3.8.22. Add existing card type**Special Instructions:** *NONE*

Test Case ID	TC_FUNC_ADM_ADD_EXIST_CARD_TYPE	
Description	Tests the functionality of adding an existing card type from the administrator.	
Applicable for	Chrome	
Initial Conditions	The user is logged in as admin.	
Test Step ID	Test Step Description	Expected Result
1	Open administration page.	Administration page is loaded.
2	Choose "Card Types" from the administration menu.	Card types are displayed.
3	Click "Insert".	
4	Insert Visa for "Name".	
5	Click "Update" button.	The card type is not added successfully.
Test verdict	Failed	

4. Traceability matrix

Test Case ID	Bug Description
TC_FUNCT_FRONT_PAGE_BOOK2	The title string and the description shown are not connected with the chosen book. Also, there is a typo in the description.
TC_FRONT_PAGE_UI1	The user needs to scroll down in order to click "Next" button.

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TC_FRONT_PAGE_UI2	Not all books on the sidebar of the front page are provided with a description.
TC_FRONT_PAGE_UI3	In the "Recommended Titles" section of the main page, the book images are clickable, but their titles are not, while on the sections of the right sidebar of the home page it is the other way round.
TC_FUNCT_LOGIN_REGULAR_USER	There are hardcoded credentials on the login page.
TC_FUNCT_REGISTER_ACC_INVALID_EMAIL	A new account can be created with an invalid email.
TC_FUNCT_REGISTER_ACC_LOGGED_IN	The system allows registering a new user while being logged in as another user.
TC_FUNCT_EDIT_PASSWORD	There is no "Confirm Password" field in the edit profile screen. Also, the only way to make profile changes is by visiting the shopping cart page first.
TC_EDIT_PERSONAL_DATA	The system requires password update whenever the user wants to update their profile.
TC_EDIT_BANK_ACCOUNT	The system requires password update whenever the user wants to change their bank account info. Also, the bank account data is shown in plaintext.
TC_FUNCT_NEGATIVE_QUANTITY	The book "Beginning Active Server Pages 3.0" is added to the shopping cart with quantity -2. Also, the total price for the book is a negative number.
TC_FUNCT_ADD_ITEM	The book "Web Development with Java Server Pages" is added to the shopping cart with wrong quantity.
TC_FUNCT_TOTAL_PRICE_BOOK	Total price for the book "Mastering ColdFusion 4.5" is not calculated correctly.
TC_FUNCT_TOTAL_PRICE	Total price for the items in the shopping cart is not calculated correctly.
TC_FUNCT_MULT_SAME_BOOK	The quantity for the book "Programming Perl (3rd edition)" is does not change. Instead, a new row for the book appears with the newly added quantity.

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TC_FUNCT_UPDATE_BOOK	The quantity for the book "Programming Perl (3rd edition)" is not updated correctly.
TC_FUNCT_CHECKOUT	"Checkout" option is not available.
TC_FUNCT_SEARCH_NO_TITLE	The results are in the wrong category.
TC_FUNCT_SEARCH_TITLE	Not all books including "web" in their title are shown.
TC_FUNCT_ADV_SEARCH_AUTHOR	Not all books including "David" as an author are shown.
TC_FUNCT_ADV_SEARCH_MIN_MAX_PRICE	Not all books in the chosen price interval are shown. Also, there is a typo in the fields "Price more then" and "Price less then".
TC_FUNC_AUTHOR_NAME	The author for the book "C# - Programming with the Public Beta" is shown twice.
TC_FUNC_VOTE	The user can vote for a book more than once.
TC_FUNC_NUMBER_VOTES	The number of votes is increased with 2 when a user votes.
TC_FUNC_RATING	The number of stars is not completely connected with the chosen category for quality.
TC_FUNC_ADM_INSERT_ORDER_MEMBER	The added book and the quantity are not correct.
TC_FUNC_ADM_UPDATE_ORDER	The quantity for the book "1001 Web Site Construction Tips and Tricks for" is not correct.
TC_FUNC_ADM_SEARCH_ORDER	All results are for member ivan.
TC_FUNC_ADM_ADD_EXIST_CATEGORY	Existing category can be added successfully.
TC_FUNC_ADM_ADD_EXIST_EDITORIAL	Existing editorial can be added successfully.
TC_FUNC_ADM_ADD_EXIST_CARD_TYPE	Existing card can be added successfully.

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