**Template**

**Test Case Template**

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Faculty of mathematics and informatics

Course: Software quality assurance

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# Test Information

## Test type

\_\_\_ Functional Test \_\_\_ Performance Test

## System Under Test

System name: Laptop.bg

Version: -

Short description of the system: The system laptop.bg is a website that offers a wide range of laptops, components, peripherals and other things. We decided to test 4 of its functionalities:

* Registration
* Login
* Cart
* Search.

## Test Personnel

Name: Mihail Zonev Date: 03.01.2023 Time/h: 5h

Name: Vasil Andreev Date: 03.01.2023 Time/h: 5h

# Test Summary

## Results

Total number of test cases: 11

Total number of test cases passed: 10

Total number of test cases failed: 1

Total number of bugs found: 1

# Test Cases

## Testing the Registration functionality

Special Instructions

***NONE***

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | Test\_Register\_empty\_field | |
| **Description** | Testing the registration form without entering email (leaving the field empty) | |
| **Applicable for** | IE6, Chrome, Firefox | |
| **Initial Conditions** | None | |
| **Test Step ID** | **Test Step Description** | **Expected Result** |
| 1 | Mouse over my profile drop menu | Shows options of the drop-down |
| 2 | Click the registration button | Registration form is opened |
| 3 | Input “123456” in both the password and confirmation password fields | The passwords are entered and are masked |
| 4 | Check the check boxes for agreement confirmation |  |
| 5 | Click register button | Error message appears |
| **Test verdict** | Passed | |

Comments: The system shows a message for empty fields as expected.

Special Instructions

***NONE***

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | Test\_Register\_shorter\_password | |
| **Description** | Testing the registration form when the input for password and confirmation password is shorter than 6(required length). | |
| **Applicable for** | IE6, Chrome, Firefox | |
| **Initial Conditions** | None | |
| **Test Step ID** | **Test Step Description** | **Expected Result** |
| 1 | Mouse over my profile drop menu | Shows options of the drop-down |
| 2 | Click the registration button | Registration form is opened |
|  | Input a valid, unregistered mail. | Inputs “testmail@mail.bg” |
| 3 | Input “1234” in both the password and confirmation password fields | The passwords are entered and are masked |
| 4 | Check the check boxes for agreement confirmation |  |
| 5 | Click register button | Error message appears |
| **Test verdict** | Passed | |

Comments: The system shows a message for shorter than expected password.

## Special Instructions

***NONE***

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | Test\_Register\_Existing\_Account | |
| **Description** | Testing the registration form with email of account that already exist. | |
| **Applicable for** | IE6, Chrome, Firefox | |
| **Initial Conditions** | Have an account and use its email – w1nstonn1911@gmail.com | |
| **Test Step ID** | **Test Step Description** | **Expected Result** |
| 1 | Mouse over my profile drop menu | Shows options of the drop-down |
| 2 | Click the registration button | Registration form is opened |
| 3 | Input a valid, but registered mail. | Inputs “w1nstonn1911@gmail.com” |
| 4 | Input “123456789” in both the password and confirmation password fields | The passwords are entered and are masked |
| 5 | Check the check boxes for agreement confirmation |  |
| 6 | Click register button | Error message appears |
| **Test verdict** | Passed | |

Comments: The system shows a message that there is an account with that email.

Special Instructions

***NONE***

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | Test\_Register\_Different\_Passwords | |
| **Description** | Testing the system when we give different password and confirmation password. | |
| **Applicable for** | IE6, Chrome, Firefox | |
| **Initial Conditions** | None | |
| **Test Step ID** | **Test Step Description** | **Expected Result** |
| 1 | Mouse over my profile drop menu | Shows options of the drop-down |
| 2 | Click the registration button | Registration form is opened |
| 3 | Input a valid, unregistered mail | Inputs “testmail@mail.bg” |
| 4 | Enter “123456abc” in the password field | The password is entered and mask |
| 5 | Enter “123456xyz” in the password confirmation field | The password is entered and mask |
| 6 | Check the check boxes for agreement confirmation |  |
| 7 | Click register button | Error message appears |
| **Test verdict** | Passed | |

Comments: The system shows message that the passwords don’t match.

Special Instructions

***NONE***

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | Test\_Register | |
| **Description** | Checks if the system creates a new account when all the input data is valid. | |
| **Applicable for** | IE6, Chrome, Firefox | |
| **Initial Conditions** | None | |
| **Test Step ID** | **Test Step Description** | **Expected Result** |
| 1 | Mouse over my profile drop menu | Shows options of the drop-down |
| 2 | Click the registration button | Registration form is opened |
| 3 | Input a valid, unregistered mail | Inputs “abc@mail.eu” |
| 4 | Input “123456789” in both the password and confirmation password fields | The passwords are entered and are masked |
| 5 | Check the check boxes for agreement confirmation |  |
| 6 | Click register button | Message for successful registration |
| **Test verdict** | Passed | |

Comments: The system created account successfully.

## Testing the Cart functionality

***Suite instruction - For all the tests of the Cart functionality we want the cart to be empty, so we perform a series of operations to delete items from the cart, if there are any, at the beginning of each test. (1)***

Special Instructions

***Empty cart – Suite instruction***

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | Test\_Cart\_Empty\_Cart | |
| **Description** | Tests the removal of products from the cart – leaving it empty. | |
| **Applicable for** | IE6, Chrome, Firefox | |
| **Initial Conditions** | The cart should be empty | |
| **Test Step ID** | **Test Step Description** | **Expected Result** |
| 1 | Open /cart | Opens the cart page |
| 2 | Go to the laptops page and add a laptop to the cart | Adds a product |
| 3 | Go to the cart page | Opens /cart |
| 2 | Using ‘store xpath count’ get the number of products in the cart (using the xpath of the remove button of the products) | Save the number of products in a variable cart\_count. |
| 3 | While cart\_count is positive (there are elements to be removed) click the removal button of the first product (it always has the same CSS) and go to step 2 again | Removes all the products from the cart. After the loop an empty cart message appears |
| **Test verdict** | Passed | |

Comments: The expected message appeared

Special Instructions

***Empty Cart – Suite instruction. The platform provides the functionality to add additional warranty for our products. This can be done either from the product page when selected the warranty period from the dropdown, or in the cart with a special shortcut button.***

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | Test\_Cart\_Merge\_Same\_Products | |
| **Description** | In the Test\_Cart\_Merge\_Same\_Products test, we want to test the situation where we add the same product (with warranty from the product page) multiple times and we expect it to be shown as one product with bigger quantity in the cart. | |
| **Applicable for** | IE6, Chrome, Firefox | |
| **Initial Conditions** | The cart should be empty | |
| **Test Step ID** | **Test Step Description** | **Expected Result** |
| 1 | Open /cart | Opens the cart page |
| 2 | Using ‘store xpath count’ get the number of products in the cart (using the xpath of the remove button of the products) | Save the number of products in a variable cart\_count. |
| 3 | While cart\_count is positive (there are elements to be removed) click the removal button of the first product (it always has the same CSS) and go to step 2 again | Removes all the products from the cart |
| 4 | We execute a loop 3 times in which we go to a specific product page add warranty to the product and add it to the cart | The product with the warranty is added 3 times |
| 5 | Go to the cart | The product with insurance is in the cart with quantity 3 |
| **Test verdict** | Passed | |

Comments: The system successfully adds the desired number of items from a product and merges them into one product with quantity the number we expected.

Special Instructions

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | Test\_Cart\_Merge\_Shortcuts | |
| **Description** | In the Test\_Cart\_Merge\_Shortcuts we add one product with warranty from the product page and one without warranty. Then in the cart we use the shortcut button to add the same warranty to the second item and we expect the cart to merge them into one product with quantity 2. | |
| **Applicable for** | IE6, Chrome, Firefox | |
| **Initial Conditions** | The cart should be empty | |
| **Test Step ID** | **Test Step Description** | **Expected Result** |
| 1 | Open /cart | Opens the cart page |
| 2 | Using ‘store xpath count’ get the number of products in the cart (using the xpath of the remove button of the products) | Save the number of products in a variable cart\_count. |
| 3 | While cart\_count is positive (there are elements to be removed) click the removal button of the first product (it always has the same CSS) and go to step 2 again | Removes all the products from the cart |
| 4 | Go to the product page of a product. | Opens a products page |
| 5 | Add the product to the cart. | Ads the product to the cart |
|  | Without leaving the page select the 12-month extended warranty option from the dropdown. | Insurance is added |
|  | Add the product in the cart | Adds the same product, but with insurance to the cart. |
|  | Go to the cart |  |
|  | For the first product (without warranty) click the shortcut for adding 12-month warranty | The system adds insurance to the first product too, and merges them to one product with quantity 2 |
| **Test verdict** | Failed | |

Comments:

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | Test\_Cart\_Calculate\_Prices\_For\_Each\_Product | |
| **Description** | The test is aimed to check if the system correctly calculates the sum price for each product(quantity multiplied by price per single item. | |
| **Applicable for** | IE6, Chrome, Firefox | |
| **Initial Conditions** | The cart should be empty | |
| **Test Step ID** | **Test Step Description** | **Expected Result** |
| 1 | Open /cart | Opens the cart page |
| 2 | Using ‘store xpath count’ get the number of products in the cart (using the xpath of the remove button of the products) | Save the number of products in a variable cart\_count. |
| 3 | While cart\_count is positive (there are elements to be removed) click the removal button of the first product (it always has the same CSS) and go to step 2 again | Removes all the products from the cart |
| 4 | Initialize variable laptop\_count | The laptop\_count is set to |
| 5 | Go to product page | Open a product page |
|  | In a loop click multiple times the increase quantity(+) button. | Adjust the wanted quantity |
|  | Save the laptop price per item from the page | Save the price per item In a variable |
|  | Go to the cart |  |
|  | Check if the cart price of the product equals the price per item multiplied by the quantity | The total price of the product is correctly calculated |
| **Test verdict** | Passed | |

Comments:-

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | Test\_Cart\_Additional\_Items | |
| **Description** | The system offers the functionality to upgrade product by adding more RAM, operational system, software,etc. We want to test if adding additional 16gb ram shows in the cart. | |
| **Applicable for** | IE6, Chrome, Firefox | |
| **Initial Conditions** | The cart should be empty | |
| **Test Step ID** | **Test Step Description** | **Expected Result** |
| 1 | Open /cart | Opens the cart page |
| 2 | Using ‘store xpath count’ get the number of products in the cart (using the xpath of the remove button of the products) | Save the number of products in a variable cart\_count. |
| 3 | While cart\_count is positive (there are elements to be removed) click the removal button of the first product (it always has the same CSS) and go to step 2 again | Removes all the products from the cart |
| 4 | Go to a products page |  |
| 5 | Go to the technical characteristics |  |
| 6 | Select the additional 16gb RAM in the RAM menu | Add the 16gb to the product and increase the total price |
| 7 | Add the product |  |
| 8 | Go to cart | The cart is opened and the RAM element exists |
| **Test verdict** | Passed | |

Comments: The system adds the 16gb ram as expected.

|  |  |  |
| --- | --- | --- |
| **Test Case ID** | Test\_Cart\_Calculate\_Product\_Removal | |
| **Description** | The system offers the functionality to upgrade product by adding more RAM, operational system, software,etc. We want to test if adding additional 16gb ram shows in the cart. | |
| **Applicable for** | IE6, Chrome, Firefox | |
| **Initial Conditions** | The cart should be empty | |
| **Test Step ID** | **Test Step Description** | **Expected Result** |
| 1 | Open /cart | Opens the cart page |
| 2 | Using ‘store xpath count’ get the number of products in the cart (using the xpath of the remove button of the products) | Save the number of products in a variable cart\_count. |
| 3 | While cart\_count is positive (there are elements to be removed) click the removal button of the first product (it always has the same CSS) and go to step 2 again | Removes all the products from the cart |
| 4 | Go to a products page |  |
| 5 | Add the product with quantity 5. |  |
| 6 | Go to cart | Add the 16gb to the product and increase the total price |
| 7 | Click twice the decrease quantity button | The amount we have is 3 and the price is correct |
| **Test verdict** | Passed | |

Comments:

# Traceability matrix

| **Test Case ID** | **Bug Description** | **Note** |
| --- | --- | --- |
| Test\_Cart\_Shortcuts\_Merge | When adding one item with insurance and without insurance of the same product and then using the shortcut for insurance the system doesn’t merge them | The bug was found in the page /cart |
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