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REPORT GENERATION

1. Login logout

Pass / Fail Statics: 6 passed

Execution Time: 120.27s (0:02:00)

Test case Summary:

1. test_login_valid: Verifies that a user can successfully log in with valid email and password credentials.
2. test_login_empty_email: Checks the system's response when the email field is left empty during login.
3. test_login_empty_password: Tests the login process when the password field is left empty, ensuring appropriate error handling.
4. test_login_email_not_exist: Confirms that the system properly handles cases where the user tries to log in with an email that does not exist in the database.
5. test_invalid_password: Ensures that the system displays an error when a user attempts to log in with an incorrect password.
6. test_logout: Verifies that a user can log out successfully and is redirected to the appropriate page or login screen.

Error Details: 0 error

2. Registration

Pass / Fail Statics: 10 pass 1 fail

Test case Summary:

1. test_register_valid: Verifies successful registration when all fields are filled with valid information.
2. test_register_empty_password: Ensures that the registration fails when the password field is left empty.
3. test_register_empty_email: Ensures that the registration fails when the email field is left empty.
4. test_register_empty_firstname: Ensures that the registration fails when the first name field is left empty.
5. test_register_empty_lastname: Ensures that the registration fails when the last name field is left empty.
6. test_register_empty_privacy_policy: Checks that registration fails if the privacy policy agreement checkbox is not selected.
7. test_register_password_too_long: Verifies that registration fails if the password exceeds the maximum allowed length.
8. test_register_password_too_short: Verifies that registration fails if the password is shorter than the minimum required length.
9. test_register_firstname_too_long: Ensures that registration fails if the first name exceeds the allowed length.
10. test_register_lastname_too_long: Ensures that registration fails if the last name exceeds the allowed length.
11. test_register_email_exist: Verifies that registration fails if the email address is already associated with an existing account.

Error Details:

With test_register_password_too_long function, when entering an overly long password, an error message should display, and account creation should be prevented. But in this case, the user is still able to create an account with a long password

3. Navigation

Pass / Fail Statics: 8 pass 0 fail

Test case Summary:

1. test_navigation_desktops: test the navigation functionality within the desktops section. This includes verifying navigation to subcategories such as PC, Mac, and the "Show All Desktops" option.
2. test_navigation_laptops_and_notebooks: test the navigation functionality within the laptops and notebooks section. This includes verifying navigation to subcategories such as Macs, Windows, and the "Show All Laptops & Notebooks" option.
3. test_navigation_components: test the navigation functionality within the components section. This includes verifying navigation to subcategories such as Mice and Trackballs, Monitors, Printers, Scanners, Web Cameras, and the "Show All Components" option.
4. test_navigation_tablets: test the navigation functionality within the Tablets section. This includes verifying that the navigation correctly directs to the tablets category.
5. test_navigation_software: test the navigation functionality within the Software section.
6. test_navigation_phones_and_PDAs: test the navigation functionality within the Phone and PDAs section.
7. test_navigation_cameras: test the navigation functionality within the Cameras section.
8. test_navigation_mp3_players: test the navigation functionality within the MP3 players section.

Error Details: 0 error

4. Data validation

Pass / Fail Statics: 4 failed, 4 passed

Execution Time: 225.56s (0:03:45)

Test case Summary:

1. `test_data_validation_desktops`: tests the navigation and data validation for different desktops categories. For each category (like PC, Mac), it verifies that the correct products are displayed or that no products appear if none are expected. Errors from mismatches are stored and printed at the end, and if any mismatch exists, the test fails with a summary of issues.
2. `test_data_validation_laptops_and_notebooks`: tests the navigation and data validation for different laptops and notebook categories...
3. `test_data_validation_components`: tests the navigation and data validation for different component categories...
4. `test_data_validation_tablets`: tests the navigation and data validation for tablets category. It navigates to the tablets category and verifies that the displayed products match the expected list, which is empty in this case. If there is a mismatch, an error is recorded, printed, and the test fails. If there are no issues, it confirms that the test passed successfully.
5. `test_data_validation_software`: tests the navigation and data validation for software category...
6. `test_data_validation_phones_and_pdas`: tests the navigation and data validation for phones and pdas category
7. `test_data_validation_cameras`: tests the navigation and data validation for cameras category
8. `test_data_validation_mp3_players`: tests the navigation and data validation for different MP3 players categories...

Error Details:

The product count displayed in the category listing does not match the actual number of products shown on the screen. This discrepancy indicates an inconsistency between the expected number of products for this category and the products loaded during navigation. The test checks that the product list displayed after navigation matches the expected count, ensuring accurate representation of product availability to the user.

5. Search

Pass / Fail Statics: 1 failed, 5 passed

Execution Time: 83.95s (0:01:23)

Test case Summary:

1. `test_search_single_product`: tests a single product search by navigating to the home page, entering a search term and verifying that the displayed search result matches the entered term.
2. `test_search_with_invalid_product_name`: tests searching for an invalid product name.
3. `test_search_for_related_products`: This test searches for a related product term, and verifies that at least one result is found. It prints all product names that match the search term to confirm that the related items are displayed.
4. `test_search_with_empty_term`: This test attempts a search with an empty search term and verifies that the displayed message indicates no products match the search criteria, ensuring that the system handles empty searches appropriately.
5. `test_search_with_characters`: This test enters a search term with special characters, such as "%", and checks if the system displays a message stating no matching products are found. It confirms that invalid character inputs don't yield false-positive search results.

6. `test_search_with_whitespace`: This test searches for a term with excessive whitespace around it, such as " MacBook ", and checks that the search engine handles and trims the input correctly, displaying results for "MacBook".

Error Details:

In the `test_search_with_characters` function, when the input % is used as the search term, the expected result is for no products to be displayed. However, the test reveals that some products are unexpectedly shown in the search results. This indicates that the search functionality is not handling special characters correctly, allowing results to display even when no valid product match should exist.

6. Add to cart

Pass / Fail Statics: 6 failed, 3 passed

Execution Time: 182.01s (0:03:02)

Test case Summary:

1. `test_add_to_cart_with_valid_qty`: tests the "Add to Cart" feature by verifying that a product can be successfully added to the shopping cart when a valid quantity is specified. This ensures that the cart functionality correctly handles the addition of items with appropriate quantities.
2. `test_add_to_cart_with_empty_qty`: tests the "Add to Cart" feature with empty quantity
3. `test_add_to_cart_with_invalid_qty`: tests the "Add to Cart" feature with invalid quantity
4. `test_add_to_cart_with_string_qty`: tests the "Add to Cart" feature with string quantity
5. `test_add_to_cart_with_negative_qty`: tests the "Add to Cart" feature with negative quantity

6. `test_add_to_cart_view_items`: function verifies that the product added to the cart matches the product displayed in the "View Items" section. This ensures that the correct item details are retained and accurately reflected in the cart view.
7. `test_add_to_cart_shopping_cart`: function verifies that the product added to the cart matches the product displayed in the "Shopping Cart" section. This ensures that the correct item details are retained and accurately reflected in the cart view.
8. `test_add_to_cart_multiple_products_in_shopping_cart`: validates the ability to add multiple different products to the shopping cart. It checks that each product displays the correct quantity, price, and... that the total price calculation is accurate and correctly displayed in the shopping cart.
9. `test_add_to_cart_multiple_products_in_view_items`: validates the ability to add multiple different products to the view items. It checks that each product displays the correct quantity, price,... and that the total price calculation is accurate and correctly displayed in the view items.

Error Details:

- During the test case for adding products to the shopping cart with an invalid quantity, the system failed to display the expected error message. Instead, the product was added to the cart successfully, which is incorrect behavior.
- A discrepancy was observed where the total amount displayed in the shopping cart does not align with the sum of individual product totals, indicating a calculation or display error in the cart's total pricing. This issue affects the accuracy of the shopping cart and could lead to incorrect charges.

7. Checkout

Pass / Fail Statics: 2 failed, 2 passed

Execution Time: 111.31s (0:01:51)

Test Case Sumamry:

test_checkout_create_account: This test verifies the functionality of creating a new user account during the checkout process. It ensures that users can successfully register an account while proceeding with their purchase, verifying that all required fields are completed, and the account is created without errors, allowing the checkout process to continue smoothly.

test_checkout_success: This test checks the successful checkout process for a guest (unregistered) customer.

test_checkout_form_validation_blank: This test verifies the checkout form's validation functionality when the "Address 1" field is left blank

test_checkout_form_validation_user: This test verifies the successful checkout process for a registered customer.

Error Details:

When the "Address 1" field is left blank in the checkout form, the expected behavior is for the system to display an error message and prevent the checkout process from completing. However, in this case, the checkout succeeds despite the missing address information. This indicates a failure in the form validation process, allowing the transaction to proceed without the required address field being completed.

8. Responsive

Pass / Fail Statics: 1 passed

Execution Time: 22.01s

Test Case Sumary:

test_responsive_design: This test case checks the website's responsiveness on desktop, tablet, and mobile screen sizes. It verifies the visibility of the logo, navigation menu, and

the clickability of the search box for each device configuration, ensuring the layout adapts correctly across different resolutions.

Error Details: 0 error

Summary:

7 test case functionalities with 53 tests took 00:15:59

	Pass	Fail
Login logout	6	0
Registration	10	1
Navigation	8	0
Data validation	4	4
Search	5	1
Add to cart	3	6
Checkout	2	2
Responsive	1	0
Total	39	14

39 passed and 14 failed