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Total Test Cases

1. test_addToCart	a) **testAddToCart:** Add product to cart b) **testAddProductWith2Quantity :** Add product with quantity 2 to cart c) **testAddMultipleProduct :** Add multiple products to cart
2. test_addToWishlist	a) **testAddToWishlistNoLogin :** Add product to wishlist when not logged in b) **testAddToWishlistLogin :** Add favorite products with logged in account
3. test_checkoutGuest	a) **testCheckoutWithGuestAccount :** Checkout with a non-logged-in account b) **testGuestAccountEmptyRequiredInput :** Checkout with empty fields
4. test_compare	a) **testCompareProducts:** Compare 2 products with each other
5. test_login	a) **testLoginAndCheckOut :** Login() and Logout() b) **testWrongEmailLogin :** Login with invalid email format c) **testInvalidWrongLogin :** Login with incorrect password d) **testEmptyPasswordLogin :** Login with empty password e) **testEmptyEmailLogin :** Login with empty email f) **testSpecialCharacterEmailLogin :** Login with email containing special characters g) **testSpecialCharacterPasswordLogin :** Log in with password containing special characters h) **testSpecialCharacterPasswordAndEmailLogin :** Log in with both email and password containing special characters i) **testSqlInvalidToLogin :** Login with SQL statement that returns True
6. test_loginCheckoutExistAccont	a) **testCheckoutWithExistAddress:** Check out with previously saved address b) **testCheckoutWithNewAddress:** Check out with new address
7. test_navigation	a) **testClickDesktopsAndMac:** Check navigation to go to desktop and mac page b) **testShowAllDesktops:** Check navigation to show desktop page c) **testMenuNavigation:** Check all navigation menu
8. test_register	a) **testRegisterValidData:** Check valid data to register b) **testRegisterEmptyRequiredInput:** Register with empty field c) **testRegisterInvalidEmail:** Register with invalid email d) **testRegisterExistAccount:** Register with exist account e) **testNoClickPolicy:** Register with not click policy f) **testRegisterSpecialCharactersInName:** Register with special

	character in field name
9. test_responsive	**a)** **testResponsiveDesign:** Check other platforms
10. test_search	**a)** **testCorrectSearchProducts:** Search correct text **b)** **testSearchWithNoExistProducts:** search product not exist **c)** **testSearchWithUppercaseAllText:** search with Upper text **d)** **testSearchWithLowercaseAllText:** search with Lower text **e)** **testSearchSpecialCharacters:** search with Special Character text **f)** **testSearchWithWhitespaceSurrounded:** search with WiteSpace in text **g)** **testSearchEmptyCharacters:** Search with empty text **h)** **testSearchWithSpecialCharacterInText:** Search with special character in text **i)** **testSearchWithLongCharacterInText:** Search with long text
11. test_wtireReview	**a)** **testWriteReview:** Review products

Total Test Case	39
Pass	37
Fail	2


```
..\..\..\AppData\Local\Programs\Python\Python312\Lib\site-packages\selenium\webdriver\remote\errorhandler.py:229: ElementClickInterceptedException
---------------------- Generated html report: file:///C:/Users/PC/Desktop/N8_LeDuyQuan_Assignment2-main/N8_LeDuyQuan_Assignment2-main/report.html ----------------------
========================================================= short test summary info =========================================================
FAILED test_search.py::testSearchWithLongCharacterInText - AssertionError: The page layout is broken and has horizontal scrolling.
FAILED test_wtireReview.py::testWriteReview - selenium.common.exceptions.ElementClickInterceptedException: Message: element click intercepted: Element is not clickable at point (163, 810)
======================================================= 2 failed, 37 passed in 715.47s (0:11:55) =======================================================
PS C:\Users\PC\Desktop\N8_LeDuyQuan_Assignment2-main\N8_LeDuyQuan_Assignment2-main>
```

testSearchWithLongCharacterInText


```
test_search.py:166: AssertionError
---------------------------------------------------------- Captured stdout call ----------------------------------------------------------
An error occurred: name 'getProductDetails' is not defined
Test for special characters keyword 'AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA' passed. No products found.
========================================================= short test summary info =========================================================
FAILED test_search.py::testSearchWithLongCharacterInText - AssertionError: The page layout is broken and has horizontal scrolling.
======================================================= 1 failed in 13.85s =======================================================
PS C:\Users\PC\Desktop\N8_LeDuyQuan_Assignment2-main\N8_LeDuyQuan_Assignment2-main>
```

testWriteReview


```
E               RtlUserThreadStart [0x00007FFFD072AF08+40]

..\..\..\AppData\Local\Programs\Python\Python312\Lib\site-packages\selenium\webdriver\remote\errorhandler.py:229: ElementClickInterceptedException
========================================================= short test summary info =========================================================
FAILED test_wtireReview.py::testWriteReview - selenium.common.exceptions.ElementClickInterceptedException: Message: element click intercepted: Element is not clickable at point (163, 810)
======================================================= 1 failed in 22.10s =======================================================
```

Test Case ID	Description	Steps	Expected Result	Actual Results
TC001	testAddToCart	1. Go to the OpenCart homepage. 2. Find and click the "Add to Cart" button of the iPhone product. 3. Wait for the success notification. 4. Confirm the notification containing the word "iPhone".	Product added to cart, notification contains "iPhone".	As expected result
TC002	testAddProductWith2Quantity	1. Go to the MacBook product page on OpenCart. 2. Click the "Add to Cart" button for the first time. 3. Click the "Add to Cart" button a second time to add the same product again. 4. Find and click the shopping cart icon. 5. Get and check the product names and quantities in the shopping cart.	The product "MacBook" appears in the cart with a quantity of 2.	As expected result
TC003	testAddMultipleProduct	1. Go to the OpenCart homepage. 2. Find and click the "Add to Cart" button of the iPhone product. 3. Go to the MacBook product page. 4. Find and click the "Add to Cart" button of the MacBook. 5. Click on the shopping cart icon and check the product names.	Both "iPhone" and "MacBook" products are in the cart.	As expected result
TC004	testAddToWishlistNoLogin	1. Go to the "iPhone" product page. 2. Click the "Add to Wish List" button. 3. Check the login prompt that appears.	A message appears saying "You must login" asking the user to log in before adding the product to favorites.	As expected result
TC005	testAddToWishlistLogin	1. Log in to your account. 2. Go to the "iPhone" product page. 3. Click the "Add to Wish List" button. 4. Check the success message that appears.	Success message is displayed after adding product to wishlist.	As expected result
TC006	testCheckoutWithGuestAccount	1. Go to the "HTC Touch HD" product page. 2. Tap the "Add to Cart" button. 3. Go to the shopping cart page. 4. Tap the "Checkout" button. 5. Select the guest account option. 6. Enter shipping information. 7. Select a shipping method. 8. Select a payment method. 9. Confirm order.	The message "Your order has been placed!" appears.	As expected result .

TC007	testGuestAccount EmptyRequiredInput	1. Go to the "HTC Touch HD" product page. 2. Tap the "Add to Cart" button. 3. Go to the shopping cart page. 4. Tap the "Checkout" button. 5. Select the guest account option. 6. Tap the "Continue" button without entering the required information.	Displays an error message: "Warning: First Name must be between 1 and 32 characters!"	As expected result
TC008	testCheckoutWith ExistAddress	1. Go to the OpenCart login page. 2. Enter your email and password in the corresponding fields. 3. Click the "Login" button to log in. 4. Go to the HTC Touch HD product page. 5. Click the "Add to Cart" button to add the product to your cart. 6. Go to your cart. 7. Click the "Checkout" button to start the checkout process. 8. Select your saved shipping address from the list. 9. Click the "Continue" button to confirm your shipping method. 10. Select Flat shipping method. 11. Click the "Continue" button to continue. 12. Click the "Continue" button to confirm your payment method. 13. Select Cash on Delivery as your payment method. 14. Click the "Continue" button to continue. 15. Click the "Confirm" button to confirm your order. 16. Check the order success notification.	The message "Your order has been placed!" displays confirming that the order has been placed successfully.	As expected result
TC009	testCheckoutWith NewAddress	1. Go to the OpenCart login page. 2. Enter your email and password in the corresponding fields. 3. Click the "Login" button to log in. 4. Go to the HTC Touch HD product page. 5. Click the "Add to Cart" button to add the product to your cart. 6. Go to your cart. 7. Click the "Checkout" button to start the checkout process. 8. Select the "New Address" checkbox if it is not already selected. 9. Fill in your personal information and new address in the corresponding fields.	The message "Your order has been placed!" displays confirming that the order has been placed successfully.	As expected result

		10. Click the "Continue" button to confirm the address information. 11. Click the "Continue" button to select a shipping method. 12. Click the "Continue" button to confirm the payment method. 13. Click the "Confirm" button to confirm the order. 14. Check the successful order notification.		
TC010	testLoginAndCheckOut	1. Go to the OpenCart home page. 2. Click on the account menu to open the options list. 3. Select "Login" to enter the login page. 4. Enter the email and password, then click the "Login" button. 5. Check that the user is redirected to the account page after successful login. 6. Click on the account menu again to open the options list. 7. Select "Logout" to log out. 8. Check that the user is redirected to the home page after successful logout.	- After successful login, the URL contains "account/account". - After successful logout, the URL contains "account/logout", then redirects to "common/home".	As expected result ".
TC011	testWrongEmailLogin	1. Go to the OpenCart login page. 2. Enter a wrongly formatted email ("wrongemail.com") in the email field. 3. Enter any password ("wrongpassword") in the password field. 4. Click the "Login" button to log in.	- An error message is displayed as a red warning. - The message content is: "Warning: No match for E-Mail Address and/or Password."	As expected result
TC012	testInvalidWrongLogin	1. Go to the OpenCart login page. 2. Enter the correct email format ("leduyquan2574@gmail.com") in the email field. 3. Enter the incorrect password ("wrongpassword") in the password field. 4. Click the "Login" button to log in.	- An error message is displayed as a red warning. - The message content is: "Warning: No match for E-Mail Address and/or Password."	As expected result
TC013	testEmptyPasswordLogin	1. Go to the OpenCart login page. 2. Enter a valid email ("leduyquan2574@gmail.com") in the email field. 3. Leave the password field blank. 4. Click the "Login" button to try logging in.	- An error message appears as a red warning. - The message content is: "Warning: No match for E-Mail Address and/or Password."	As expected result
TC014	testEmptyEmailLogin	1. Go to the OpenCart login page. 2. Enter an invalid password ("wrongpassworrd@") in the password field. 3. Leave the email field blank.	- An error message appears as a red warning. - The message content is: "Warning: No match	As expected result

		4. Click the "Login" button to try to log in.	for E-Mail Address and/or Password."	
TC015	testSpecialCharacterEmailLogin	1. Go to the OpenCart login page. 2. Enter the special character string (!@#$%^&*()) in the email field. 3. Enter a valid password ("password") in the password field. 4. Click the "Login" button.	- An error message appears as a red warning. - The message content is: "Warning: No match for E-Mail Address and/or Password."	As expected result
TC016	testSpecialCharacterPasswordLogin	1. Go to OpenCart login page. 2. Enter a valid email (leduyquan2574@gmail.com) in the email field. 3. Enter a special character string (!@#$%^&*()) in the password field password. 4. Press the "Login" button.	- An error message appears as a red warning. - The message content is: "Warning: No match for E-Mail Address and/or Password."	As expected result
TC017	testSpecialCharacterPasswordAndEmailLogin	1. Go to the OpenCart login page. 2. Enter the special character string (!@#$%^&*()) in the email field. 3. Enter the special character string (!@#$%^&*()) in the password field. 4. Click the "Login" button.	- An error message appears as a red warning. - The message content is: "Warning: No match for E-Mail Address and/or Password."	As expected result
TC018	testSqlInvalidToLogin	1. Go to the OpenCart login page. 2. Enter a SQL injection string (' UNION SELECT NULL, username, password FROM users --) into the email field. 3. Enter the same SQL string into the password field. 4. Press the "Login" button.	- A red warning error message will appear. - The message content is: "Warning: No match for E-Mail Address and/or Password."	As expected result
TC019	testRegisterValidData	1. Go to the OpenCart registration page. 2. Fill in the "First Name" field with a valid value ("Le Duy"). 3. Fill in the "Last Name" field with a valid value ("Le Duy"). 4. Fill in a valid email ("leduyquan19112003@gmail.com"). 5. Fill in a valid password ("Quan19112003"). 6. Check the checkbox to agree to the privacy policy. 7. Click the "Continue" button.	- The page will redirect to a success confirmation page. - A success message will appear with the content: "Your Account Has Been Created!"	As expected result
TC020	testRegisterEmptyRequiredInput	1. Go to the OpenCart registration page. 2. Click the "Continue" button without filling in any information. 3. Confirm that error messages appear for required fields.	- Error message for the "First Name" field with the content: "First Name must be between 1 and 32 characters!" - Error message for the	As expected result

			"Last Name" field with the content: "Last Name must be between 1 and 32 characters!" - Error message for the "Email" field with the content: "E-Mail Address does not appear to be valid!" or "E-Mail Address must be between 1 and 96 characters!" - Error message for the "Password" field with the content: "Password must be between 4 and 20 characters!"	
TC021	testRegisterInvalid Email	1. Go to the OpenCart registration page. 2. Enter valid information for the "First Name" and "Last Name" fields. 3. Enter an invalid email address. 4. Enter valid information for the "Password" field. 5. Click the checkbox to accept the privacy policy and the "Continue" button. 6. Confirm that the error message for the email field displays correctly.	- Error message for the "Email" field with the content: "E-Mail Address does not appear to be valid!"	As expected result
TC022	testRegisterExistA ccount	1. Go to the OpenCart registration page. 2. Enter valid information for the "First Name" and "Last Name" fields. 3. Enter an email address that was previously used for registration. 4. Enter valid information for the "Password" field. 5. Click the checkbox to accept the privacy policy and the "Continue" button. 6. Confirm that the error message for the email field displays correctly.	- Error message for "Email" field with content: "E-Mail Address is already registered!"	As expected result
TC023	testNoClickPolicy	1. Go to the OpenCart registration page. 2. Enter valid information for the "First Name", "Last Name", "Email" and "Password" fields. 3. Do not check the checkbox to agree to the privacy policy. 4. Click the "Continue" button. 5. Confirm that the error message for not agreeing to the privacy policy displays correctly.	- An error message with the content: "Warning: You must agree to the Privacy Policy!" will appear when the checkbox is not checked.	As expected result

TC024	testRegisterSpecia lCharactersInNam e	1. Go to the OpenCart registration page. 2. Enter special characters (e.g. !!!!!!!!!) in the "First Name" field. 3. Enter special characters (e.g. !!!!!!!!) in the "Last Name" field. 4. Fill in valid information for email and password. 5. Agree to the privacy policy. 6. Click the "Continue" button. 7. Check if the displayed error message is correct.	- An error message with the content: "Warning: First Name must be between 1 and 32 characters!" or "Warning: Last Name must be between 1 and 32 characters!" will be displayed.	As expected result
TC025	testResponsiveDes ign	1. Go to the OpenCart home page. 2. Set the viewport size for each device (Desktop, Tablet, Mobile). 3. Check the visibility of the elements: search box, 'My Account' menu, and main content. 4. Type the keyword 'Iphone' in the search box and press Enter. 5. Click the 'Add to Cart' button. 6. Check if the cart contains products.	Responsive adapts to devices	As expected result
TC026	testCorrectSearch Products	1. Initialize WebDriver and go to login page. 2. Login with email and password. 3. Call search_products function with "Iphone". 4. Wait for results to load. 5. Check the list of results.	The returned product list is not empty.	As expected result
TC027	testSearchWithNo ExistProducts	1. Initialize WebDriver and go to login page. 2. Login with email and password. 3. Call search_products function with "LeDuyQuanDepTrai". 4. Wait for results to load. 5. Check the results list.	The returned product list must be empty.	As expected result
TC028	testSearchWithUp percaseAllText	1. Initialize WebDriver and go to login page. 2. Login with email and password. 3. Call search_products function with "IPHONE". 4. Wait for results to load. 5. Check the list of results.	The returned product list is not empty.	As expected result
TC029	testSearchWithLo wercaseAllText	1. Initialize WebDriver and go to login page. 2. Login with email and password. 3. Call search_products function with "iphone". 4. Wait for results to load.	The returned product list is not empty.	As expected result

		5. Check the list of results.		
TC030	testSearchSpecial Characters	1. Initialize WebDriver and go to login page. 2. Login with email and password. 3. Call search_products function with "!@#$%^&*()_+". 4. Wait for results to load. 5. Check the list of results.	The returned product list must be empty.	As expected result
TC031	Test the search_products function with a query with surrounding whitespace (" Iphone ").	1. Initialize WebDriver and go to login page. 2. Login with email and password. 3. Call search_products function with " Iphone ". 4. Wait for results to load. 5. Check the list of results.	The returned product list is not empty.	As expected result
TC032	testSearchWithWh itespaceSurrounde d	1. Initialize WebDriver and go to login page. 2. Login with email and password. 3. Call search_products function with empty query. 4. Wait for results to load. 5. Check the result list.	The returned product list must be empty.	As expected result
TC033	testSearchEmptyC haracters	1. Initialize WebDriver and go to login page. 2. Login with email and password. 3. Call search_products function with "!Iphone". 4. Wait for results to load. 5. Check the list of results.	The returned product list must be empty.	As expected result
TC034	testSearchWithSp ecialCharacterInT ext	1. Initialize WebDriver and go to login page. 2. Login with email and password. 3. Call search_products function with long string. 4. Check result list. 5. Check page width and viewport width.	The returned product list must be empty. The page width cannot exceed the viewport width.	As expected result
TC035	testSearchWithLo ngCharacterInText	1. Launch WebDriver and go to the login page. 2. Log in with your email and password. 3. Go to the OpenCart homepage. 4. Go to the iPhone product page. 5. Click on the "Write a review" link. 6. Enter your review and select a rating. 7. Click the submit review button.	The review is submitted successfully and displays the message "Thank you for your review".	The page layout is broken and has horizontal scrolling.

		8. Check the success message.		
TC036	testCompareProducts	1. Open the product page for the first product. 2. Get the product name of the first product. 3. Click on 'Add to Compare' for the first product. 4. Open the product page for the second product. 5. Get the product name of the second product. 6. Click on 'Add to Compare' for the second product. 7. Navigate to the comparison page. 8. Get the product names displayed on the comparison page. 9. Check if both product names are displayed on the comparison list.	Both products should be successfully added to the comparison list, and their names should appear on the comparison page.	As expected result
TC037	testClickDesktopsAndMac	1. Navigate to the home page. 2. Click on the "Desktops" menu in the navbar. 3. Click on the "Mac" subcategory under the "Desktops" menu. 4. Verify that the page title contains the word "Mac".	The page should navigate to the Mac subcategory, and the page title should contain "Mac".	As expected result
TC038	testShowAllDesktops	1. Click on the "Desktops" menu in the navbar. 2. Click on the "Show All Desktops" link.	The page should navigate to the "Show All Desktops" section, displaying all available desktops.	As expected result
TC039	testMenuNavigation	1. Click on the "Desktops" menu item. 2. Define the main menu items and their corresponding sub-items. 3. Hover over the main menu item. 4. For each sub-item, click and verify the page title matches the sub-item. 5. Navigate back and re-hover over the main menu item to reopen it after navigating back.	The test should ensure that each sub-item under the main menu navigates correctly, and the page title should match the expected title for each sub-item. The menu should be reopened correctly after navigating back.	As expected result
TC040	testWriteReview	1. Navigate to the login page of OpenCart and log in with the provided credentials. 2. Navigate to the homepage and then to the product page for the iPhone. 3. Click the "Write a review" link. 4. Enter the review text in the review text area. 5. Select a 5-star rating. 6. Click the "Continue" button to submit	The review should be successfully submitted with a 5-star rating, and a success message should be displayed: "Thank you for your review."	Submit but no notice to save review and no review appears

		the review. 7. Wait for the success message and verify if it contains the expected text.		