Experiment No. 7

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AIM: Design test scenarios and test cases for your SRS.

PERFORMANCE:

Test Scenarios:

Test Scenario ID	Requirement	Test Scenario Description	Importance	No. of Test Cases
TS_SHOPIT_LOGIN_01	Login Functionality	Verify user can login with correct credentials	High	3
TS_SHOPIT_LOGIN_02	Login Functionality	Verify user cannot login with incorrect password	Medium	1
TS_SHOPIT_LOGIN_03	Login Functionality	Verify user cannot login with incorrect username	Medium	1
TS_SHOPIT_SEARCH_01	Search Functionality	Verify user can search for products by name	High	2
TS_SHOPIT_SEARCH_02	Search Functionality	Verify user can filter search results by category	Medium	1
TS_SHOPIT_CART_01	Add to Cart Functionality	Verify user can add a product to their cart	High	2
TS_SHOPIT_CART_02	Add to Cart Functionality	Verify user can remove a product from their cart	Medium	1
TS_SHOPIT_CHECKOUT_01	Checkout Functionality	Verify user can successfully checkout and place an order	High	3
TS_SHOPIT_CHECKOUT_02	Checkout Functionality	Verify user cannot checkout with an empty cart	Medium	1

Test Cases:

1. LOGIN:

Test Case ID	Test Objective	Precondition	Test Steps	Test Data	Expected Result	Post Condition
TC_LOGIN_01	Verify successful login with valid credentials	The user is on the login page	1. Enter valid username and password 2. Click on "Login" button	Username: johndoe Password: password123	The user is redirected to the home page and can access the system features	The user is logged in and can perform operations as expected
TC_LOGIN_02	Verify login failure with invalid username	The user is on the login page	1. Enter invalid username and valid password 2. Click on "Login" button	Username: invaliduser Password: password123	An error message is displayed stating that the username or password is incorrect	The user is still on the login page and cannot access the system features
TC_LOGIN_03	Verify login failure with invalid password	The user is on the login page	1. Enter valid username and invalid password 2. Click on "Login" button	Username: johndoe Password: invalidpassword	An error message is displayed stating that the username or password is incorrect	The user is still on the login page and cannot access the system features
TC_LOGIN_04	Verify login failure with empty username and password fields	The user is on the login page	1. Leave both username and password fields empty 2. Click on "Login" button	N/A	An error message is displayed stating that both username and password are required fields	The user is still on the login page and cannot access the system features.

2. SEARCH RESULTS:

Test Case ID	Test Objective	Precondition	Test Steps	Test Data	Expected Result	Post-condition
TC_SR_01	Verify that user is able to search for a product using the search bar	User is on the ShopIt homepage	1. Enter the product name in the search bar 2. Press Enter key or click on the search icon	Product name: "laptop"	Product listing page is displayed with all relevant products matching the search keyword	User is able to view and interact with the search results
TC_SR_02	Verify that user is able to search for a product using filters	User is on the product listing page	1. Apply relevant filters for the product search 2. Click on "Apply" button	Product category: "Electronics" Brand: "Dell"	Product listing page is displayed with all relevant products matching the applied filters	User is able to view and interact with the filtered search results
TC_SR_03	Verify that user is not able to search for an invalid product	User is on the ShopIt homepage	1. Enter an invalid product name in the search bar 2. Press Enter key or click on the search icon	Product name: "qwerty"	Error message is displayed on the page stating that no product was found for the given search keyword	User is still on the same page and can perform a new search
TC_SR_04	Verify that user is able to view all products on clearing the search bar	User has performed a search operation using the search bar	1. Click on the clear search icon in the search bar	Search bar is cleared and all the products are displayed on the page	User is able to view and interact with all the products on the page	

3. ADD TO CART:

Test Case ID	Test Objective	Precondition	Test Steps	Test Data	Expected Result	Post-condition
TC_AC_01	Verify that a user can add a product to their cart by clicking on the "Add to Cart" button	The user is logged in and on the product page	1. Navigate to the product page 2. Click on the "Add to Cart" button	Product SKU, quantity	The product is added to the cart and the cart icon updates to reflect the number of items in the cart	The product is added to the user's cart
TC_AC_02	Verify that the user is prompted to login if they try to add a product to their cart without logging in	The user is not logged in and on the product page	1. Navigate to the product page 2. Click on the "Add to Cart" button	Product SKU, quantity	The user is redirected to the login page with a message asking them to log in to add the product to their cart	The user is redirected to the login page
TC_AC_03	Verify that a user can add multiple products to their cart	The user is logged in and on the product page	1. Navigate to the product page 2. Click on the "Add to Cart" button for multiple products	Product SKUs, quantities	The products are added to the cart and the cart icon updates to reflect the total number of items in the cart	The products are added to the user's cart
TC_AC_04	Verify that a user cannot add a product to their cart if it is out of stock	The user is logged in and on the product page for an out of stock product	1. Navigate to the product page 2. Verify that the "Add to Cart" button is disabled	N/A	The "Add to Cart" button is disabled and a message is displayed indicating that the product is out of stock	The user cannot add the out of stock product to their cart
TC_AC_05	Verify that a user cannot add more items to their cart than are in stock	The user is logged in and on the product page	1. Navigate to the product page 2. Enter a quantity that is greater	Product SKU, quantity	A message is displayed indicating that there is not enough	The user cannot add more items to their cart

Test Case ID	Test Objective	Precondition	Test Steps	Test Data	Expected Result	Post-condition
			than the quantity in stock 3. Click on the "Add to Cart" button		stock to fulfill the order	than are in stock
TC_AC_06	Verify that the user can view their cart after adding items to it	The user has added at least one item to their cart	1. Click on the cart icon in the navigation bar	N/A	The user is taken to their cart where they can view the items they have added and their total cost	The user can view their cart and its contents

4. CHECKOUT:

Test Case ID	Test Objective	Precondition	Test Steps	Test Data	Expected Result	Post-condition
TC_CHECK_1	Verify checkout process with valid product and payment details	User has added product(s) to cart and is on the checkout page	1. Enter valid shipping information 2. Select a payment method 3. Submit the order	Valid shipping information and payment details	Order is successfully processed and a confirmation message is displayed	User is redirected to the order confirmation page
TC_CHECK_2	Verify error message is displayed when shipping information is missing	User has added product(s) to cart and is on the checkout page	1. Leave shipping information fields blank 2. Select a payment method 3. Submit the order	Missing shipping information	An error message is displayed indicating that shipping information is required	User is prompted to enter the required shipping information
TC_CHECK_3	Verify error message is displayed when payment information is missing	User has added product(s) to cart and is on the checkout page	1. Enter valid shipping information 2. Leave payment information fields blank 3. Submit the order	Missing payment information	An error message is displayed indicating that payment information is required	User is prompted to enter the required payment information

Test Case ID	Test Objective	Precondition	Test Steps	Test Data	Expected Result	Post-condition
TC_CHECK_4	Verify order summary is displayed before submitting the order	User has added product(s) to cart and is on the checkout page	1. Verify that order summary is displayed on the checkout page	Valid product(s) in the cart	Order summary is displayed with details of the product(s) and the total amount	User can verify the details of the order before submitting it
TC_CHECK_5	Verify that order is not processed when payment fails	User has added product(s) to cart and is on the checkout page	1. Enter valid shipping information 2. Select a payment method that is known to fail 3. Submit the order	Valid shipping information and payment details that are known to fail	An error message is displayed indicating that payment failed	User is prompted to select a different payment method or update the payment details

CONCLUSION: Thus, we are able to create test scenarios and test cases for our case study.