# I. Test Summary Report:

	TEST	TEST CASE	STATUS	Execution
	CASE ID	DESCRIPTION	(PASS/FAIL)	Time
	TC01	Verify login with valid data	PASS	00:00:38
	TC02	Verify login with invalid email	PASS	00:00:37
Check Login	TC03	Verify login with invalid	PASS	00:00:37
Functionality	TC04	password  Varify lagin with amounts amoil	PASS	00:00:37
	1004	Verify login with empty email	PASS	00:00:37
	TC05	Verify login with empty	PASS	00:00:37
		password		
	TC06	Verify registration with valid	PASS	00:00:20
		data		
	TC07	Verify registration with special	FAIL	00:00:19
		characters in name		
	TC08	Verify registration with	PASS	00:00:22
		existing email		
	TC09	Verify registration with empty	PASS	00:00:22
		name		
Check	TC10	Verify registration with full	PASS	00:00:22
Register		name		
Functionality	TC11	Verify registration with name	PASS	00:00:19
Tunetionality		of exact 32 characters		
	TC12	Verify registration with invalid	PASS	00:00:19
		email format	2.22	00.00.00
	TC13	Verify registration with short	PASS	00:00:22
	TC1.4	password	TI A TY	00.00.10
	TC14	Verify registration with long	FAIL	00:00:19
		password		

	TC15	Verify registration with	PASS	00:00:20
		password of exact 4 characters		
	TC16	Test adding a single product	PASS	00:00:49
Check Add	F-0.1.5		D	00.01.00
to Cart	TC17	Test adding multiple products	PASS	00:01:22
Functionality	TC18	Test adding a product with	FAIL	00:00:43
		negative quantity		
	TC19	Test adding the same product	PASS	00:00:49
		multiple times		
	TC20	Test checkout with available	PASS	00:01:37
Check		user information		
Checkout	TC21	Test checkout with new user	PASS	00:01:53
Functionality		information		
	TC22	Test checkout as a guest user	PASS	00:01:35
	TC23	Test submission of product	PASS	00:00:43
	1023	return form with valid data	rass	00.00.43
Check Form	TC24	Test submission of product	FAIL	00:00:42
Submission	1024	return form with invalid order	TALL	00.00.42
		date		
	TC25	Test submission of product	FAIL	00:00:44
		return form with invalid		
		information		
	TC26	Test search with a valid	PASS	00:00:25
		keyword		
Check	TC27	Test search with whitespace	PASS	00:00:24
Search		only		
Functionality	TC28	Test search with special	PASS	00:00:19
		characters		

	TC29	Test search with lowercase keyword	PASS	00:00:26
	TC30	Test search with uppercase keyword	PASS	00:00:25
	TC31	Test search with a keyword containing whitespace	PASS	00:00:25
Navigation	TC32	Verify Navigation between  Main Pages in Menu Bar	PASS	00:01:19
Data	TC33	Test data validation with random quantity	PASS	00:00:45
Validation	TC34	Test data validation with fixed quantity	PASS	00:00:44

**Total Test Cases** 

Executed: 34

Total Pass: 29

Total Fail: 5

Pass Rate: 85%

## II. Test Case Summary

#### a. Check Login Functionality

TEST CASE ID	DESCRIPTION	STEPS	EXPECTED RESULT
TC001	Verify valid	1. Navigate to the OpenCart demo	User is logged in and
	login and logout	site	redirected to the
		2. Scroll to and click the "My	homepage, and after
		Account" link	logging out, the
		3. Enter testZoe@gmail.com as	message "Account
		the email	Logout" is displayed.
		4. Enter 123456 as the password	
		5. Click the login button	
		6. Scroll to the "Subscriptions"	

		link	
		7. Click the "Logout" link	
TC02	Verify login with	1. Navigate to the OpenCart demo	An error message
	invalid email	site	stating "Warning: No
		2. Scroll to and click the "My	match for E-Mail
		Account" link	Address and/or
		3. Enter admin@gmail.com as the	Password." is
		email	displayed.
		4. Enter 123456 as the password	
		5. Click the login button	
		6. The error message displayed	
TC03	Verify login with	1. Navigate to the OpenCart demo	An error message
	invalid password	site	stating "Warning: No
		2. Scroll to and click the "My	match for E-Mail
		Account" link	Address and/or
		3. Enter testZoe@gmail.com as the email	Password." is
		4. Enter 1 as the password	displayed.
		5. Click the login button	
		6. The error message displayed	
TC04	Verify login with	1. Navigate to the OpenCart demo	An error message
	empty email	site	stating "Warning: No
		2. Scroll to and click the "My	match for E-Mail
		Account" link	Address and/or
		3. Leave the email field empty	Password." is
		4. Enter 123456 as the password	displayed.
		5. Click the login button	
		6. The error message displayed	
TC05	Verify login with	1. Navigate to the OpenCart demo	An error message
	empty password	site	stating "Warning: No
		2. Scroll to and click the "My	match for E-Mail
		Account" link	Address and/or
		3. Enter testZoe@gmail.com as	Password." is
		the email	displayed.
		4. Leave the password field empty	
		5. Click the login button	
		6. Capture the error message	
		displayed	

### b. Check Register Functionality

TEST	DESCRIPTION	STEPS	EXPECTED
CASE ID			RESULT
TC06	Verify registration with valid data	1. Navigate to the OpenCart registration page 2. Wait for the page to load 3. Enter Zoe as the first name 4. Enter Nguyen as the last name 5. Enter testZoeadmin1abc@gmail.com as the email 6. Enter 123456 as the password 7. Scroll to the newsletter section 8. Click to agree to the terms 9. Click the continue button 10. Verify the account creation message	The message "Your Account Has Been Created!" is displayed.
TC07	Verify registration with special characters in name	1. Navigate to the OpenCart registration page 2. Wait for the page to load 3. Enter @@@@@ as the first name 4. Enter ##### as the last name 5. Enter testZoe132342aasdd@gmail.com as the email 6. Enter 123456 as the password 7. Scroll to the newsletter section 8. Click to agree to the terms 9. Click the continue button 10. Verify the account creation message	The message "Your Account Has Been Created!" is NOT displayed because Name can not contain special character
TC08	Verify registration with existing email	1. Navigate to the OpenCart registration page 2. Wait for the page to load 3. Enter Zoe as the first name 4. Enter Nguyen as the last name 5. Enter testZoe@gmail.com as the email (already registered) 6. Enter 123456 as the password 7. Scroll to the newsletter section 8. Click to agree to the terms 9. Click the continue button 10. Verify the error message for existing email	The message "Warning: E-Mail Address is already registered!" is displayed.

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<u> </u>		The message "First
_		Name must be
empty name	_ ~ ~	between 1 and 32
	3. Enter an empty string as the first	characters!" is
	name	displayed.
	4. Enter an empty string as the last	
	name	
	5. Enter testZoe122223@gmail.com	
	as the email	
	6. Enter 123456 as the password	
	7. Scroll to the newsletter section	
	8. Click to agree to the terms	
	9. Click the continue button	
	10. Verify the error message for	
	empty first name	
Verify	1. Navigate to the OpenCart	The message "First
registration with	registration page	Name must be
full name	2. Wait for the page to load	between 1 and 32
	3. Enter a first name with 33	characters!" is
	characters ("A" * 33)	displayed.
	4. Enter a last name with 33	
	characters ("B" * 33)	
	· · · · · · · · · · · · · · · · · · ·	
	as the email	
	6. Enter 123456 as the password	
	7. Scroll to the newsletter section	
	8. Click to agree to the terms	
	9. Click the continue button	
	10. Verify the error message for the	
	first name	
Verify	1. Navigate to the OpenCart	The message "Your
registration with	registration page	Account Has Been
name of exact 32	2. Wait for the page to load	Created!" is
characters	3. Enter a first name with 32	displayed
	characters ("A" * 32)	
	4. Enter a last name with 32	
	characters ("B" * 32)	
	5. Enter	
	testZoe123abcdef12344@gmail.com	
	as the email	
	6. Enter 123456 as the password	
	7. Scroll to the newsletter section	
	8. Click to agree to the terms	
	9. Click the continue button	
	1	
	verify registration with name of exact 32	registration with empty name  registration page 2. Wait for the page to load 3. Enter an empty string as the first name 4. Enter an empty string as the last name 5. Enter testZoe122223@gmail.com as the email 6. Enter 123456 as the password 7. Scroll to the newsletter section 8. Click to agree to the terms 9. Click the continue button 10. Verify the error message for empty first name  Verify registration with full name  1. Navigate to the OpenCart registration page 2. Wait for the page to load 3. Enter a first name with 33 characters ("A" * 33) 4. Enter a last name with 33 characters ("B" * 33) 5. Enter testZoe122223@gmail.com as the email 6. Enter 123456 as the password 7. Scroll to the newsletter section 8. Click to agree to the terms 9. Click the continue button 10. Verify the error message for the first name  Verify registration with name of exact 32 characters  1. Navigate to the OpenCart registration page 2. Wait for the page to load 3. Enter a first name with 32 characters ("A" * 32) 4. Enter a last name with 32 characters ("B" * 32) 5. Enter testZoe123abcdef12344@gmail.com as the email 6. Enter 123456 as the password 7. Scroll to the newsletter section 8. Click to agree to the terms

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TC12	Verify	1. Navigate to the OpenCart	An error message
	registration with	registration page	indicating that the
	invalid email	2. Wait for the page to load	email format is
	format	3. Enter a first name with 32	invalid is displayed.
		characters ("A" * 32)	
		4. Enter a last name with 32	
		characters ("B" * 32)	
		5. Enter an invalid email	
		(testZoe122223)	
		6. Enter 123456 as the password	
		7. Scroll to the newsletter section	
		8. Click to agree to the terms	
		9. Click the continue button	
		10. Verify that the error message for	
		the email is displayed	
TC13	Verify	1. Navigate to the OpenCart	The message "
	registration with	registration page	Password must be
	short password	2. Wait for the page to load	between 4 and 20
		3. Enter Zoe as the first name	characters!
		4. Enter Nguyen as the last name	" is displayed
		5. Enter email	
		testZoe122223@gmail.com as the	
		email	
		6. Enter 123 as the password	
		7. Scroll to the newsletter section	
		8. Click to agree to the terms	
		9. Click the continue button	
		10. Verify that the error message for	
		the password is displayed	
TC14	Verify	1. Navigate to the OpenCart	The test asserts that
	registration with	registration page	the registration
	long password	2. Wait for the page to load	does not succeed. If
		3. Enter a first name (e.g., "Zoe")	the success
		4. Enter a last name (e.g., "Nguyen")	message ("Your
		5. Enter a valid email (e.g.,	Account Has Been
		testZoe1245bca23355@gmail.com)	Created!") appears,
		6. Enter a long password ("1" * 32)	the test should fail
		7. Scroll to the newsletter section	because it indicates
		8. Click to agree to the terms	that the application
		9. Click the continue button	did not enforce the
		10. Verify that the registration	password length
		success message is NOT displayed	rule properly.
TC15	Verify	1. Navigate to the OpenCart demo	The header "Your
	registration with	site.	Account Has Been
	password of	2. Click on the "Register" link to	Created!" is
		open the registration form.	displayed

exact 4	3. Enter Zoe as the first name.	
characters	4. Enter Nguyen as the last name.	
	5. Enter	
	testZoeabcc123iiuh@gmail.com as	
	the email.	
	6. Enter 1234 as the password.	
	7. Scroll to the newsletter section	
	and agree to the terms.	
	8. Click the "Continue" button.	
	9. Capture the registration header	
	displayed.	

#### c. Check Add to Cart Functionality

TEST CASE	DESCRIPTION	STEPS	EXPECTED RESULT
ID			
TC16	Test adding a single product	<ol> <li>Navigate to the OpenCart demo site.</li> <li>Wait for the page to load.</li> <li>Clear the search box and enter "iphone".</li> <li>Click the search button.</li> <li>Scroll to the first product and click on "iPhone".</li> <li>Clear the quantity input and enter 1.</li> <li>Click the "Add to Cart" button.</li> <li>Click the cart button to view the cart dropdown.</li> <li>Click the "View Cart" button to go to the cart details page.</li> <li>Capture the product name displayed in the cart.</li> <li>Verify the product name matches "iPhone".</li> </ol>	The product name "iPhone" is displayed in the cart, confirming it has been successfully added.
TC17	Test adding multiple products	<ol> <li>Navigate to the OpenCart demo site.</li> <li>Wait for the page to load.</li> <li>Clear the search box and enter "iphone".</li> <li>Click the search button.</li> <li>Scroll to the first product and click on "iPhone".</li> <li>Set quantity to 1 and click "Add to Cart".</li> </ol>	Both "iPhone" and "MacBook" are displayed in the cart, confirming they have been successfully added.

TC18	Test adding a product with	7. Search for "macbook".  8. Click the search button.  9. Scroll to the first product and click on "MacBook".  10. Set quantity to 1 and click "Add to Cart".  11. Click the cart button to view the cart dropdown.  12. Click the "View Cart" button to go to the cart details page.  13. Capture the product names displayed in the cart.  14. Verify both "iPhone" and "MacBook" are in the cart.  1. Navigate to the OpenCart demo site.  2. Wait for the page to load.	An error message is displayed, and the success
	negative quantity	<ol> <li>Wait for the page to load.</li> <li>Clear the search box and enter "iphone".</li> <li>Click the search button.</li> <li>Scroll to the first product and click on "iPhone".</li> <li>Clear the quantity field and enter - 1.</li> <li>Click the "Add to Cart" button.</li> <li>Capture any error messages displayed.</li> <li>Verify that the success message is not displayed.</li> </ol>	the success message "Success: You have added" should not be shown.
TC19	Test adding the same product multiple times	<ol> <li>Navigate to the OpenCart demo site.</li> <li>Wait for the page to load.</li> <li>Clear the search box and enter "iphone".</li> <li>Click the search button.</li> <li>Scroll to the first product and click on "iPhone".</li> <li>Clear the quantity field and enter 1.</li> <li>Click the "Add to Cart" button.</li> <li>Click "Add to Cart" again.</li> <li>View the cart and verify the quantity of the product.</li> </ol>	The quantity of the iPhone in the cart should be "x 2".

#### d. Check Checkout Functionality

TEST	DESCRIPTION	STEPS	EXPECTED
CASE ID			RESULT
TC20	Test checkout with available user information	<ol> <li>Navigate to the OpenCart demo site.</li> <li>Click on the "My Account" link.</li> <li>Close any pop-up if it appears.</li> <li>Enter email and password, then log in.</li> <li>Search for "HTC Touch" and select the product.</li> <li>Set the quantity to 2 and add to cart.</li> <li>Open the cart.</li> <li>Click the checkout button.</li> <li>Select pre-existing shipping address.</li> <li>Choose shipping method and confirm.</li> <li>Select payment method and confirm.</li> <li>Click the confirm order button.</li> </ol>	A message stating "Your order has been placed!" should be displayed on the page.
TC21	Test checkout with new user information	1. Navigate to the demo OpenCart site. 2. Click on 'My Account' link. 3. Login with email admin123567890@gmail.com and password 123456. 4. Search for "HTC Touch". 5. Click on the "HTC Touch HD" product. 6. Set quantity to 2 and click "Add to Cart". 7. Click the cart button. 8. Click the checkout button. 9. Select "New Address". 10. Enter shipping details:     - First Name: "Zoeee"     - Last Name: "Nguyen"     - Company: "abc"     - Address: "HCM"     - City: "HCM"     - Postcode: "1111" 11. Select country and region from	The message "Your order has been placed!" should be displayed.

		dropdowns. 12. Click on "Continue" for shipping address. 13. Select a shipping method and click "Continue". 14. Choose payment method and click "Continue". 15. Confirm the order by clicking the "Confirm" button. 16. Verify the order confirmation message.	
TC22	Test checkout as a guest user	1. Navigate to the demo OpenCart site. 2. Search for "HTC Touch". 3. Click on the search button. 4. Click on the "HTC Touch HD" product. 5. Set quantity to 2 and click "Add to Cart". 6. Click the cart button. 7. Click the checkout button. 8. Select "Guest Checkout". 9. Enter guest information:	The message "Your order has been placed!" should be displayed.

#### e. Check Form Submission

TEST	DESCRIPTION	STEPS	EXPECTED
CASE			RESULT
ID TC23	Test submission of product return form with valid data	1. Navigate to the demo OpenCart site.  2. Scroll to the "Returns" link in the footer.  3. Close any popup if present.  4. Click on the "Returns" link.  5. Fill in the form with valid data:  - First Name: "Zoe"  - Last Name: "Nguyen"  - Email: "testZoe@gmail.com"  - Telephone: "0123456789"  - Order ID: "11111"  - Order Date: "2024-10-26"  - Product: "iphone"  - Model: "product 11"  6. Select the reason for return and confirm the product is opened.  7. Click the submit button.	The message "Product Returns" should be displayed.
TC24	Test submission of product return form with invalid order date	8. Verify the "Product Returns" message is displayed.  1. Navigate to the demo OpenCart site.  2. Scroll to the "Returns" link in the footer.  3. Close any popup if present.  4. Click on the "Returns" link.  5. Fill in the form with valid data:  - First Name: "Zoe"  - Last Name: "Nguyen"  - Email: "testZoe@gmail.com"  - Telephone: "0123456789"  - Order ID: "11111"  - Order Date: "2024-11-10"  (future date)  - Product: "iphone"  - Model: "product 11"  6. Select the reason for return and confirm the product is opened.  7. Click the submit button.  8. Verify that the "Product Returns" message is <b>not</b> displayed.	The message "Product Returns" should not be displayed.

TC25	Test submission	1. Navigate to the demo OpenCart	The message
	of product return	site.	"Product
	form with	2. Scroll to the "Returns" link in the	Returns" should
	invalid	footer.	not be
	information	3. Close any popup if present.	displayed.
		4. Click on the "Returns" link.	
		5. Fill in the form with invalid data:	
		- First Name: "@@@@"	
		- Last Name: "@@@@@@@"	
		- Email: "testZoe@gmail.com"	
		- Telephone: "0123456789"	
		- Order ID: "11111"	
		- Order Date: "2024-11-10"	
		- Product: "iphone"	
	- Model: "product 11"		
		6. Select the reason for return and	
		confirm the product is opened.	
		7. Click the submit button.	
		8. Verify that the "Product Returns"	
		message is <b>not</b> displayed.	

### f. Check Search Functionality

TEST	DESCRIPTION	STEPS	EXPECTED
CASE			RESULT
TC26	Test search with	1 Navigate to the demo OpenCart	The number of
1020	a valid keyword	1. Navigate to the demo OpenCart site.	product items
	u vana key word	2. Clear any pre-existing text in the	should be
		search box and enter the keyword	greater than
		"iPhone".	zero.
		3. Click the search button.	
		4. Verify that at least one product is	
		displayed.	
TC27	Test search with	1. Navigate to the demo OpenCart	The message
	whitespace only	site.	"There is no
		2. Clear any pre-existing text in the	product that
		search box and enter a whitespace	matches the
		string.	search criteria."
		3. Click the search button.	should be
		4. Verify that the message indicating	displayed.
		no products were found is displayed.	
TC28	Test search with	1. Navigate to the demo OpenCart	The message
	special	site.	"There is no
	characters	2. Clear any pre-existing text in the	product that
		search box and enter special	matches the

		characters (@@##\$).	search criteria."
		3. Click the search button.	should be
		4. Verify that the message indicating	displayed.
		no products were found is displayed.	displayed.
TC29	Test search with		The number of
1029		1. Navigate to the demo OpenCart	
	lowercase	site.	product items
	keyword	2. Clear any pre-existing text in the	should be
		search box and enter the keyword	greater than
		iphone (lowercase).	zero.
		3. Click the search button.	
		4. Verify that at least one product is	
		displayed.	
TC30	Test search with	1. Navigate to the demo OpenCart	The number of
	uppercase	site.	product items
	keyword	2. Clear any pre-existing text in the	should be
		search box and enter the keyword	greater than
		IPHONE (uppercase).	zero.
		3. Click the search button.	
		4. Verify that at least one product is	
		displayed.	
TC31	Test search with	1. Navigate to the demo OpenCart	At least one
	a keyword	site.	product
	containing	2. Clear any pre-existing text in the	matching the
	whitespace	search box and enter the keyword	keyword HTC
	•	HTC Touch.	Touch should be
		3. Click the search button.	displayed.
		4. Verify that at least one product is	
		displayed.	

### g. Navigation

<b>TEST</b>	DESCRIPTION	STEPS	<b>EXPECTED</b>
CASE			RESULT
ID			
TC32	Verify	1. Navigate to the demo OpenCart	The final page
	Navigation	site.	title should
	between Main	2. Click on the "Desktops" menu.	contain "MP3
	Pages in Menu	3. Click on "Mac (1)".	Players".
	Bar	4. Click on "Laptops & Notebooks".	
		5. Click on "Components".	
		6. Click "Show All Components".	
		7. Click on "Tablets".	
		8. Click on "Software".	
		9. Click on "Phones & PDAs".	
		10. Click on "Cameras".	

11. Click on "MP3 Players".	
12. Click "Show All MP3 Players".	

#### h. Data Validation

i. TEST	DESCRIPTION	STEPS	EXPECTED
CASE			RESULT
ID			
TC33	Test data validation with random quantity	1. Navigate to the demo OpenCart site. 2. Search for the product "iPhone". 3. Click on the first product link. 4. Clear the quantity input and enter a random integer (1-100). 5. Retrieve the displayed price. 6. Add the product to the cart. 7. Click on the cart button to view the cart. 8. Retrieve the total value displayed in the cart. 9. Calculate the expected total based on the random quantity and product price. 10. Assert that the calculated total matches the displayed total.	The displayed total in the cart should match the calculated total based on the quantity and price.
TC34	Test data validation with fixed quantity	1. Navigate to the demo OpenCart site. 2. Search for the product "iPhone". 3. Click on the first product link. 4. Clear the quantity input and enter a fixed quantity of "2". 5. Retrieve the displayed price. 6. Add the product to the cart. 7. Click on the cart button to view the cart. 8. Retrieve the total value displayed in the cart. 9. Calculate the expected total based on the fixed quantity and product price. 10. Assert that the calculated	The displayed total in the cart should match the calculated total based on the fixed quantity and price.

	total matches the displayed	
	total	