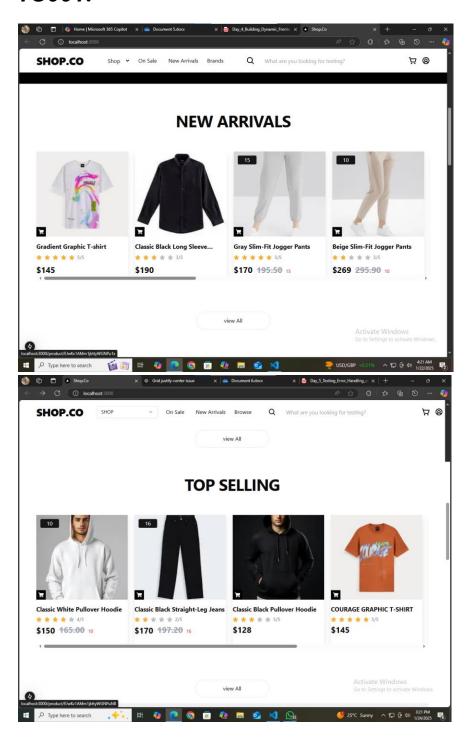
# **DAY 5** - TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

## 1. Functional Testing

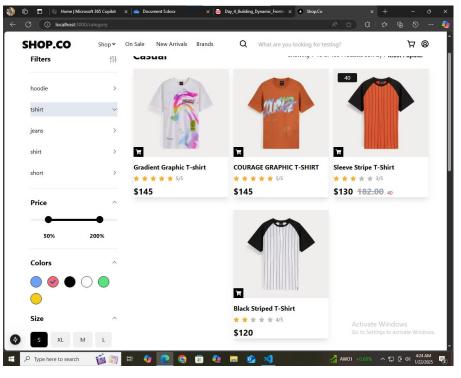
Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status
TC001	Verify product listing on the homepage	1. Visit the website's homepage.2. Scroll to the "New Arrival" section.3. Verify that products are displayed under "New Arrival."4. Scroll to the "Top Selling" section.5. Verify that products are displayed under "Top Products."	Products are displayed in both "New Arrival" and "Top Selling" sections.	Products were displayed correctly in both sections as expected.	Passed
TC002	Validate accurate results based on filters and search	1. Navigate to the search bar.2. Enter a keyword for a product and submit.3. Apply filters in category page (e.g., category, colors, size).4. Verify that results match the search term and applied filters.	The search results and filters produce accurate results based on user input.	Search results and filters worked as expected, showing correct results.	Passed
TC003	Validate cart operations: Add, update, and remove items	1. Navigate to any product .2. Add the product to the cart.3. Go to the cart and update the quantity of the	Products can be added, updated, and removed from the cart	Cart operations worked as expected, allowing add, update, and removal.	Passed

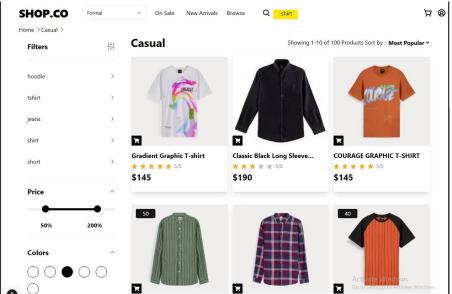
		product.4. Remove the	without		
		product from the cart.	errors.		
		1. Navigate to any product in a page.2. Click			
	Verify	on a product to open its	Individual	Product detail	
	individual	detail page.3. Verify that	product detail	pages loaded	Passed
TC004	product detail	the product detail page	pages load	correctly with	
	pages load	displays accurate	with accurate	accurate	
	correctly	information (e.g., name,	information.	details.	
		price, description,			
		images).			

#### TC001:

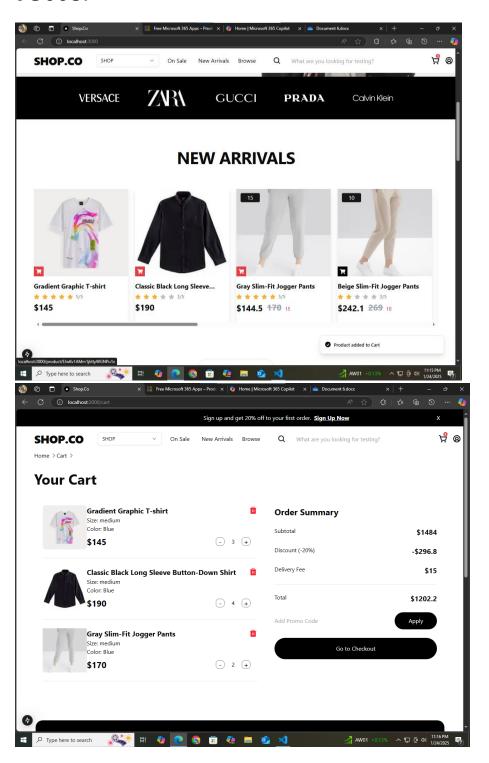


#### TC002:

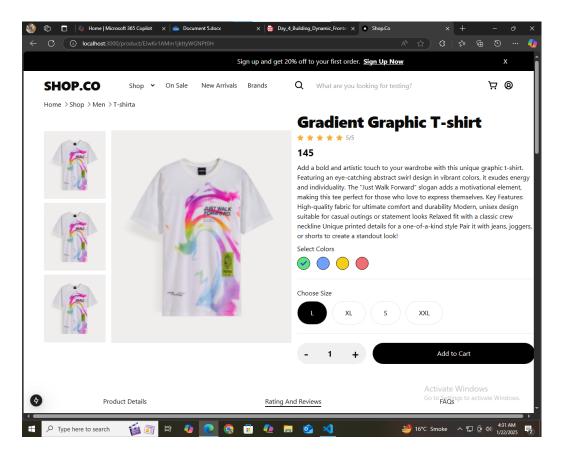




#### TC003:



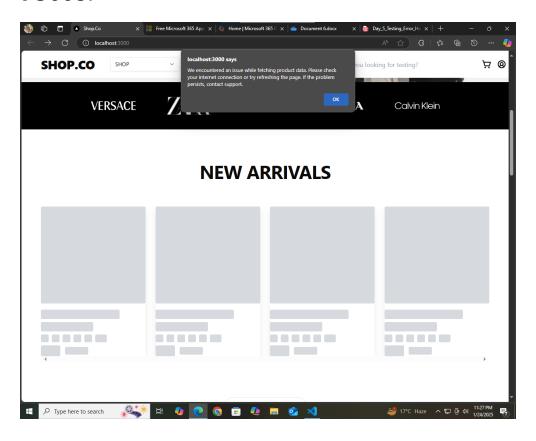
#### TC004:



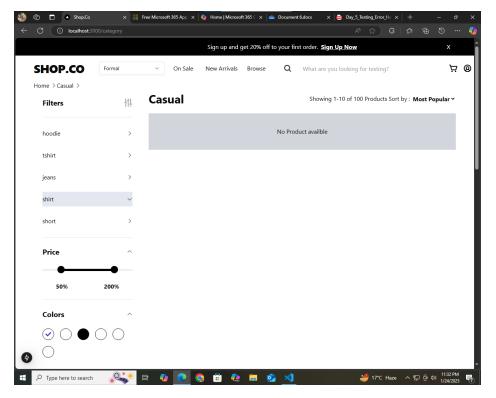
## 2. Error Handling

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status
TC005	Verify error handling using try-catch for console and alert	1. Simulate an error by triggering a function wrapped in a try-catch block.2. Verify that the error is logged in the console.3. Verify that an alert is displayed with the error message.	Errors are logged to the console, and an alert displays the error message.	Error was logged to the console and displayed in an alert successfully.	Passed
TC006	Validate conditional rendering when no products are found	1. Navigate to the categories page.2. Select multiple categories that do not have overlapping products.3. Verify that the message "No Product available" is displayed on the UI.	The message "No Product available" is displayed when no products match the filter.	Message displayed correctly when no products were found.	Passed

#### TC005:

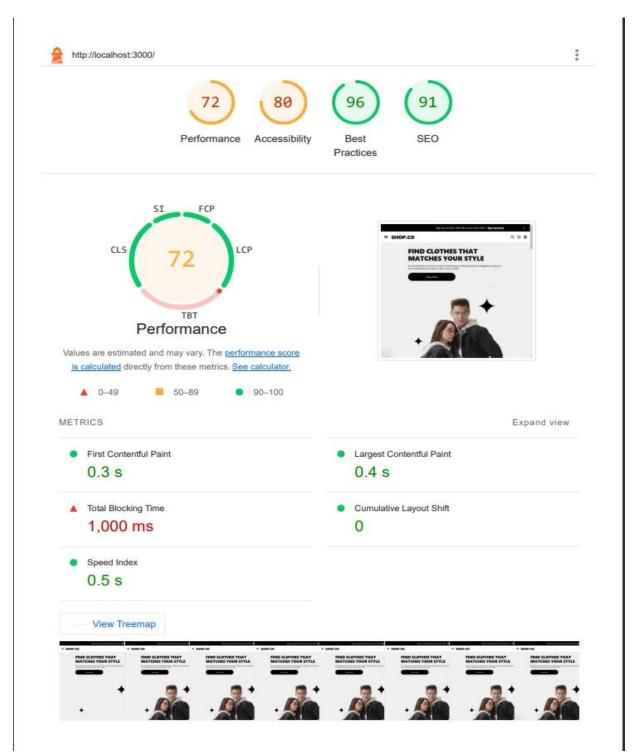


#### TC006:



# 3. Performance Testing

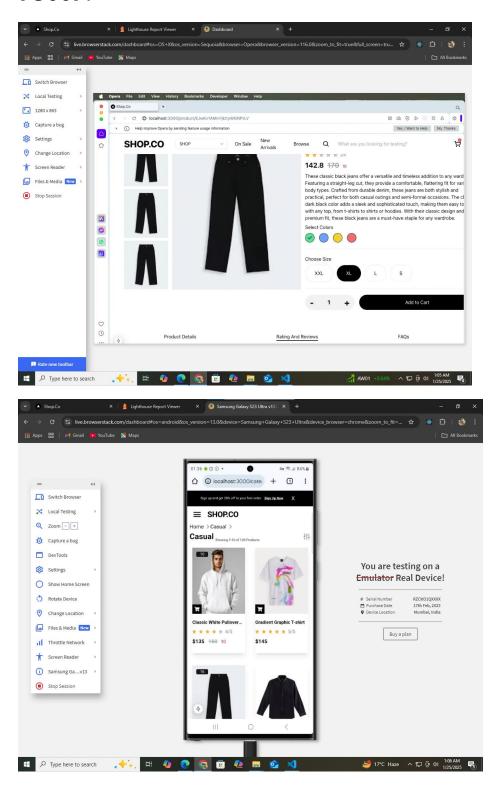
### Lighthouse Report:



## 4. Cross Browser and Device Testing

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status
TC007	Cross-browser and device compatibility testing	1. Use BrowserStack to test the website on different browsers: Safari, Chrome, Edge, and Opera (desktop versions).2. Use BrowserStack to test the website on mobile devices using the same browsers where applicable.3. Verify the website's functionality and layout on each.	The website functions and displays correctly on all tested browsers and devices.	The website functioned and displayed correctly on all tested browsers and devices.	Passed

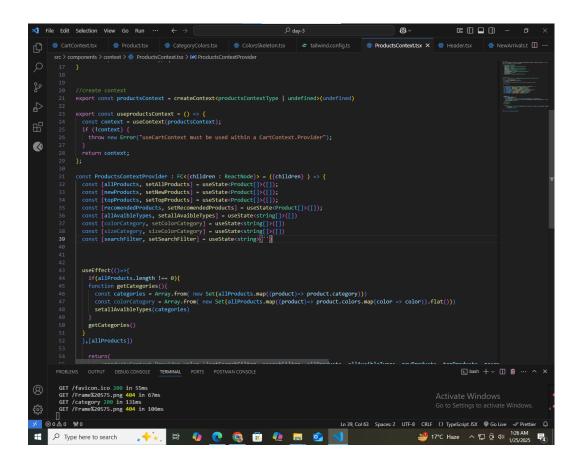
#### TC007:



## 5. Security Testing

Type safety has been incorporated into all input fields as a security measure to prevent injection attacks. This ensures that only valid data is processed and submitted, mitigating the risks of SQL injections, cross-site

scripting (XSS), and other malicious input vulnerabilities.



## 6. User Acceptance Testing (UAT)

The User Acceptance Testing (UAT) for the marketplace was successfully completed by simulating real-world scenarios. Testers interacted with the platform, performing key workflows such as browsing products,

searching for items, and completing the checkout process. Throughout the testing, these workflows were found to be intuitive and seamless, with no errors encountered. This confirms that the user experience is smooth and aligns with expectations, ensuring that the platform is ready for end users without any significant issues.