

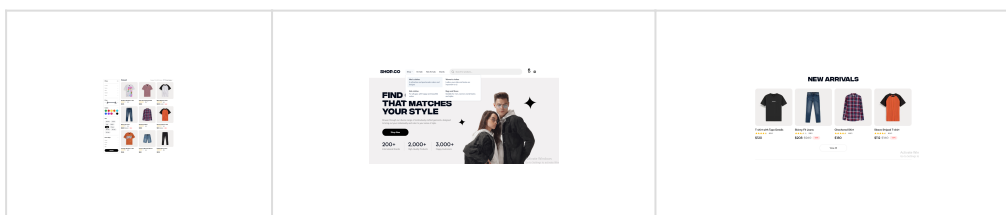
# DAY 5 - TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

## STEP 1: FUNCTIONAL TESTING

### . 1.Test Core Features:

#### • Product listing

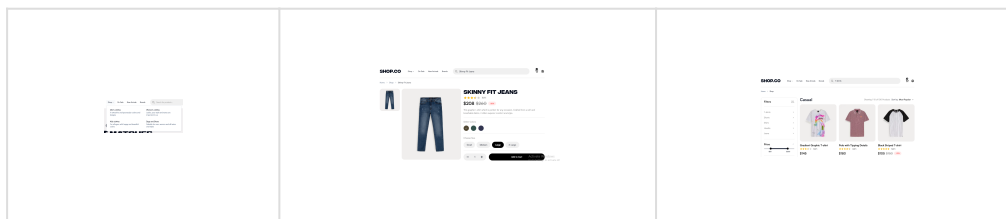
Test code -ID	Test Case	steps	Expected Outcome	status
Tc00-1	Display product list	Open the product listing page	All products appear with correct details	PASS
Tc00-2	Pagination functionality	Navigate to the next page of products	Correct product load on the page	PASS
Tc00-3	Image rendering	Verify product images load correctly	All images are displayed without distortion	PASS



#### • FILTERS

Test code -ID	Test Case	steps	Expected Outcome	status
Tc00-4	Category filter	Select a specific category filter	only products within the selected category appear	PASS
Tc00-5	Keyword Search			PASS

<i>Test code -ID</i>	<i>Test Case</i>	<i>steps</i>	<i>Expected Outcome</i>	<i>status</i>
		Enter a keyword [ skinny fit jeans]	<i>only product matching the keyword appear</i>	
<b>Tc00-6</b>	<b>Combined filter and Seach</b>	<b>Apply multiple filters and a keyword search</b>	<b>Results meet all applied conditions</b>	<b>PASS</b>



### • *cart Operations*

<i>Test code -ID</i>	<i>Test Case</i>	<i>steps</i>	<i>Expected Outcome</i>	<i>status</i>
<b>Tc00-7</b>	<b>product detail page load</b>	<b>Click on a shop from the listing page</b>	<b>products detail page opens with correct details</b>	<b>PASS</b>
<b>Tc00-8</b>	<b>URL validation</b>	<b>Verify URL format (e.g., / shop/product-name)</b>	<b>URL matches the product ID</b>	<b>PASS</b>
<b>Tc00-9</b>	<b>Navigation back to list</b>	<b>Use browser back button</b>	<b>Returns to the product listing page</b>	<b>PASS</b>
<b>Tc00-10</b>	<b>Add/ remove items cart</b>	<b>Click on the add or remove button to perform function</b>	<b>It will add or remove items from user's cart</b>	<b>PASS</b>



## STEP 2: ERROR HANDLING

- **Add Error Messages:**

*Use try-catch blocks to handle API errors.*

*If (product data) {*

*return {*

```
<div class Name="container mx-auto py-16 text-center">
```

```
<h1 class Name=" test-2xl font-bold text-red-500">
```

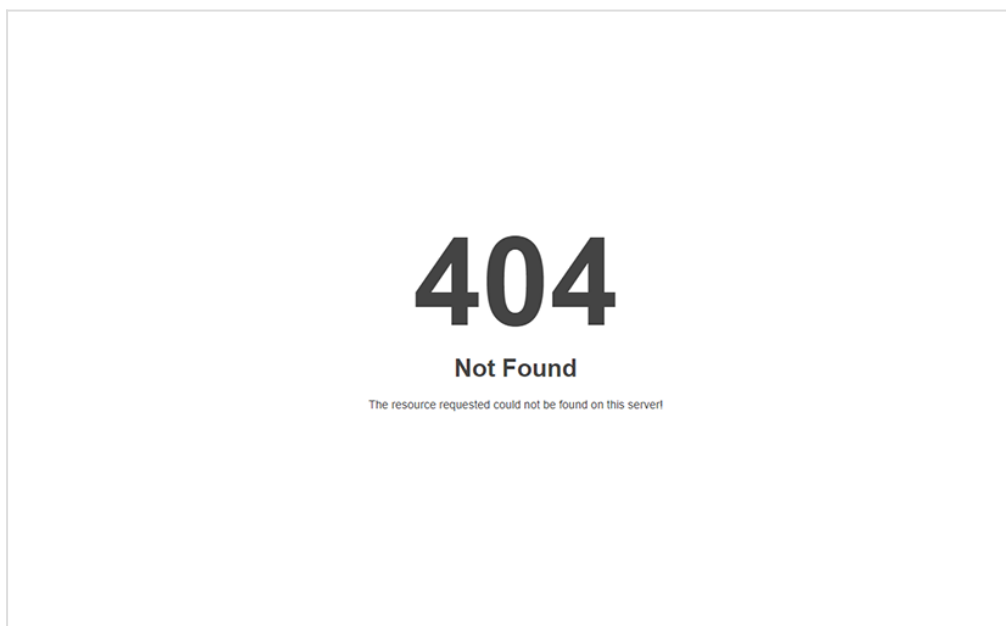
```
<p class Name ="tst-gray-600"> product Not found</p>
```

```
</div>
```

```
},
```

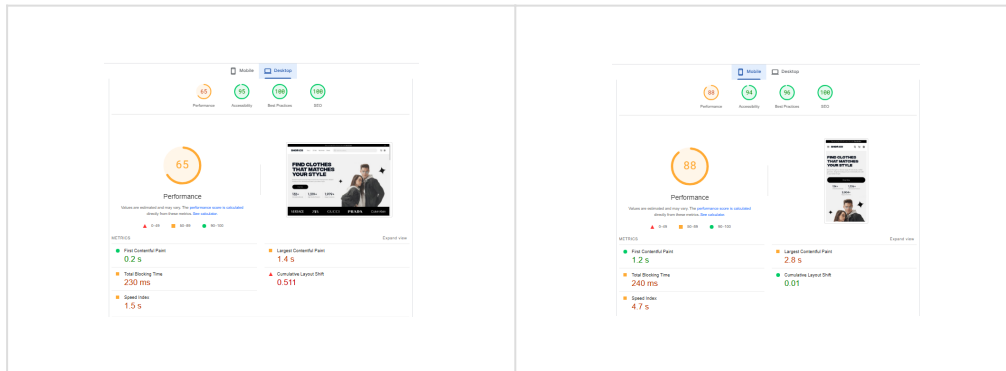
```
},
```

### **FALLBACK UI:**



## STEP 3: PERFORMANCE OPTIMIZATION

- **Optimize Assets**
- **Analyze Performance**
- **Test Load Times**



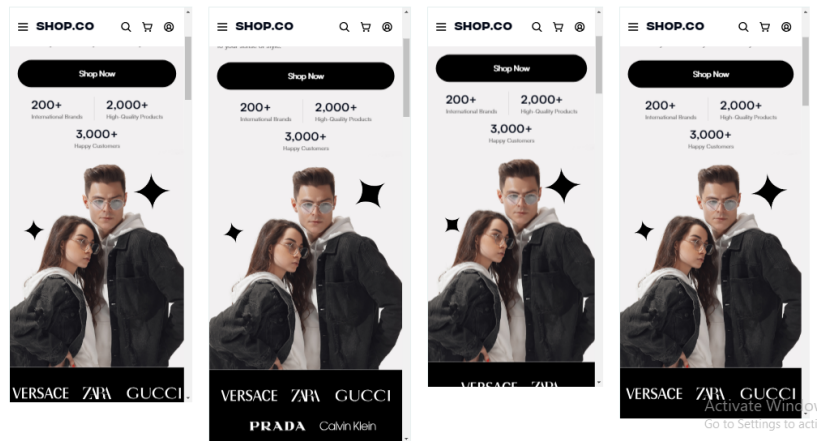
## STEP 4: CROSS-BROWSER AND DEVICE TESTING

1. **Browser Testing**
2. **Device Testing**

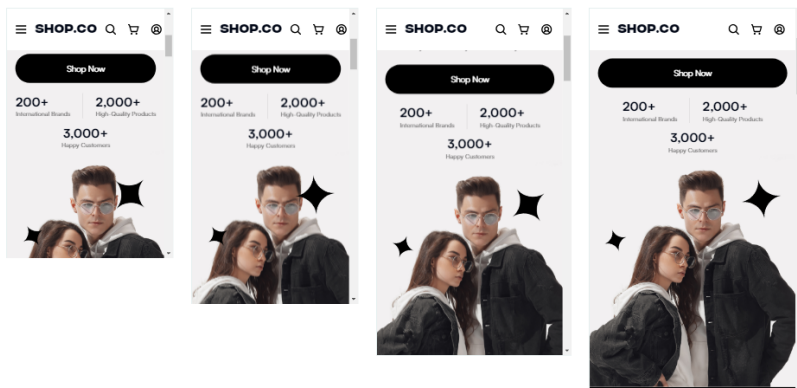
Test code -ID	Test Case	steps	Expected Outcome	status
Tc00-11	View on Google chrome	Open the chrome and see website	It shows responsive	PASS
Tc00-12	View on Microsoft Edge	Open the Microsoft Edge and see website	It shows responsive	PASS
Tc00-13	View on Mobile	Open the Mobile and see website	It shows responsive	PASS

My website is responsive For All devices

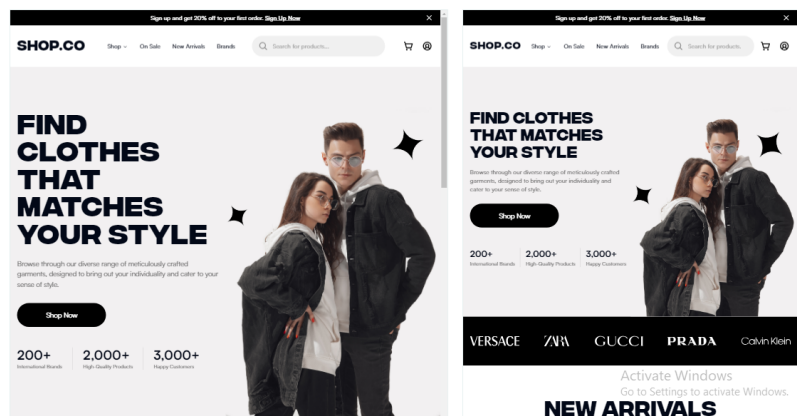
iPhone 11 Pro, Xs, X 375 x 812 iPhone 11, Xr 414 x 896 iPhone 12 Mini 390 x 780 iPhone 12, 12 Pro 390 x 844



iPhone 4 320 x 480 iPhone SE, 5 320 x 568 iPhone SE 2, 8, 7, 6 375 x 667 iPhone 8+, 7+, 6+ 414 x 736



iPad Pro 1024 x 1366 Galaxy Tab S7, Galaxy Tab A 8.0 600 x 1250



## **STEP 5: SECURITY TESTING**

**DESCRIPTION:** SECURE THE WEBSITE AGAINST VULNERABILITIES

### **KEY ACTIONS:**

- *Sanitize user inputs to prevent SQL injection and XSS attacks.*
- *Ensure API calls are made over HTTPS.*
- *Store sensitive information in environment variables.*
- *Conduct penetration testing to identify hidden vulnerabilities.*

### **TOOLS USED:**

- *OWASP ZAP: For automated vulnerability scanning.*
- *Burp Suite: For penetration testing.*
- *Manual testing for additional verification of potential vulnerabilities.*

## **STEP 6: USER ACCEPTANCE TESTING (UAT)**

**DESCRIPTION:** SIMULATE REAL-WORLD USER INTERACTIONS TO IDENTIFY USABILITY ISSUES.

### **SCENARIOS TESTED:**

- *Browsing products.*
- *Adding and removing items from the cart.*
- *Completing the checkout process.*
- *Testing multi-step workflows to ensure an intuitive user experience.*

### **FEEDBACK COLLECTED:**

- *Minor UI inconsistencies identified and resolved.*
- *Improved workflows for better user experience.*
- *Adjusted visual hierarchy to emphasize key actions like "Add to Cart."*

## STEP 7: DOCUMENTATION UPDATES

**DESCRIPTION:** COMPILE FINDINGS AND RESOLUTIONS INTO A PROFESSIONAL REPORT. INCLUDES:

- *Test case descriptions and results.*
- *Performance optimization steps.*
- *Security measures implemented.*
- *Screenshots of issues and fixes.*
- *Additional insights into areas for future improvement.*

## CSV CONTENT

*Test Case ID,Description,Expected Result,Actual Result,Status,Severity,Remarks TC001,Test navigation links,All links navigate correctly,All links function as intended,Pass,Low,None TC002,Verify product listing display,Products display correctly,Products display correctly,Pass,Medium,None TC003,Test shopping cart functionality,Items add/remove/update correctly,Cart functions as expected,Pass,High,None TC004,Check blog post accessibility,Blog posts are accessible,Blog posts accessible,Pass,Low,None TC005,Test contact form submission,Form submits successfully,Form submits successfully,Pass,Medium,None TC006,Analyze performance metrics,Performance score  $\geq 88$ ,Score: 83,Fail,High,Optimization needed TC007,Check accessibility features,Accessibility score  $\geq 94$ ,Score: 100,Pass,Medium,Ensure ongoing compliance TC008,Evaluate SEO metrics,SEO score  $\geq 100$ ,Score: 79,Fail,Medium,Implement recommended SEO practices*