

Hackathon 3

TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

E-Commerce

Introduction

“Thoroughly test all components of “My Marketplace” optimize performance, and refine backend integration to ensure a smooth, error-free user experience that can efficiently handle customer-facing traffic during deployment”

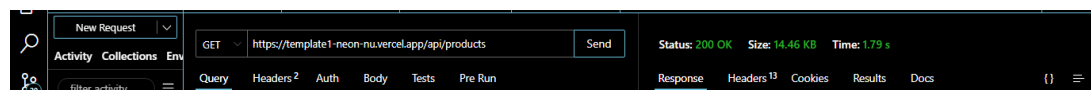
1. Functional Testing

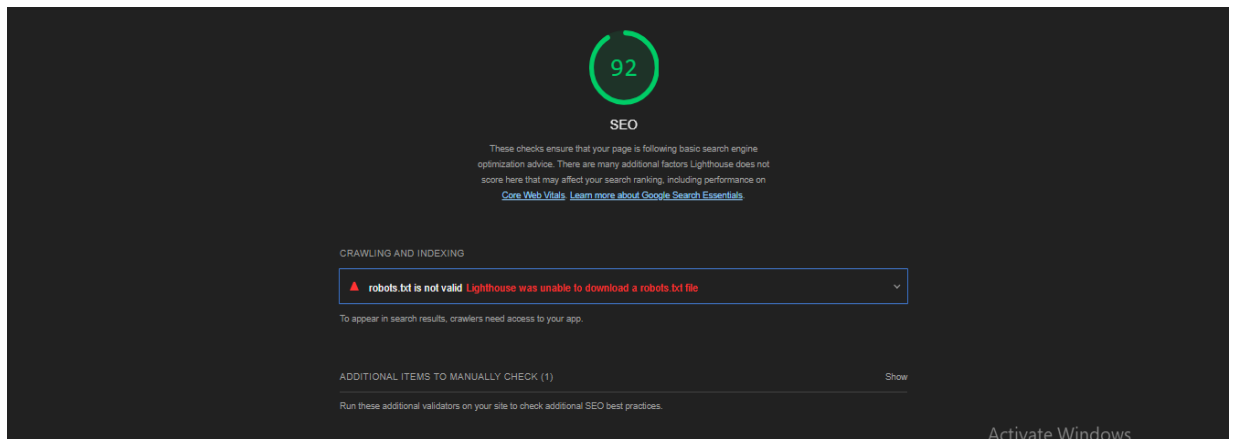
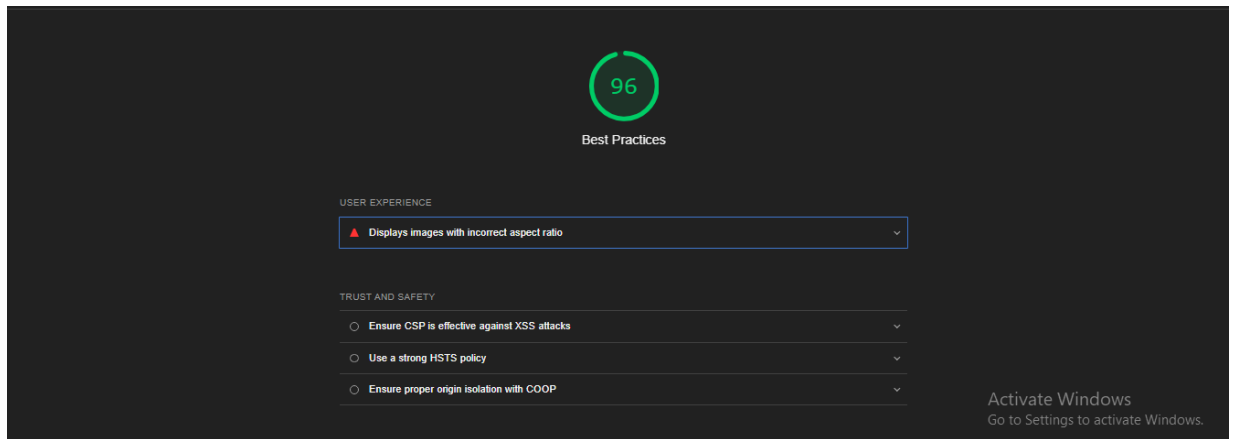
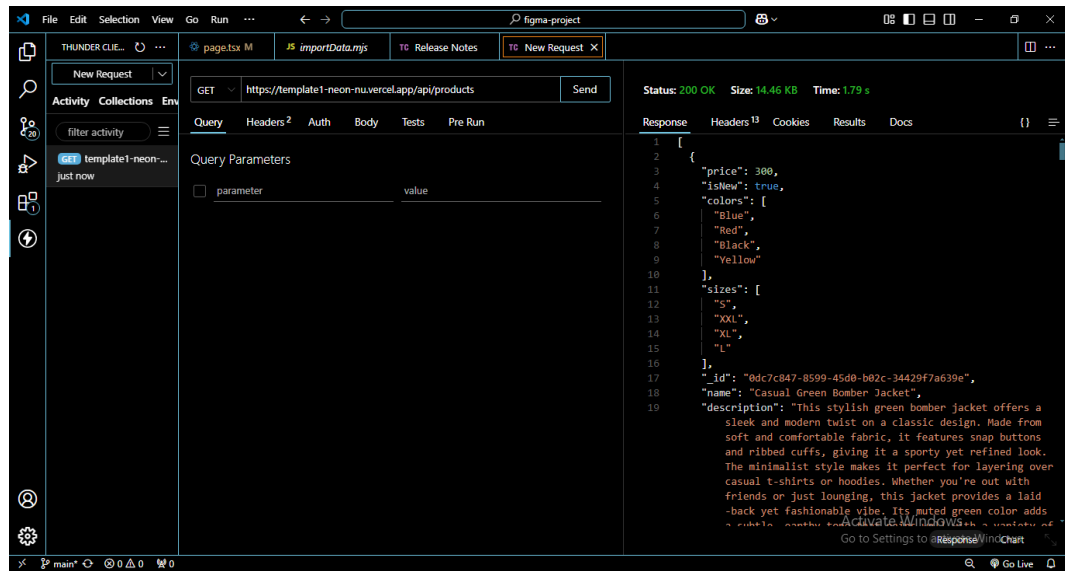
2. Display of products (images, description, prices & reviews).
3. Cart operations: Add, update, and remove items from the cart.
4. Dynamic routing: Verify individual product detail pages load correctly.
5. Navigation Link.

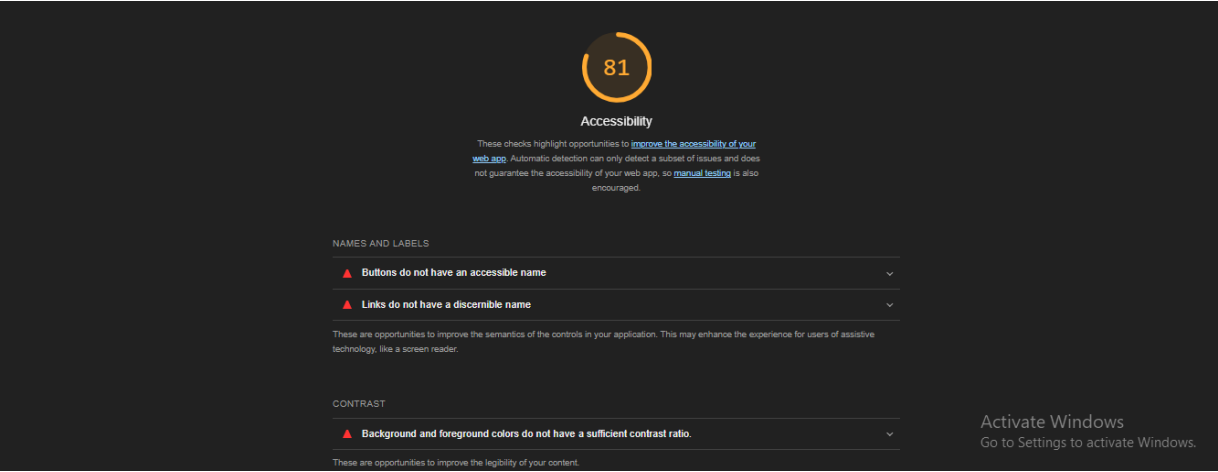
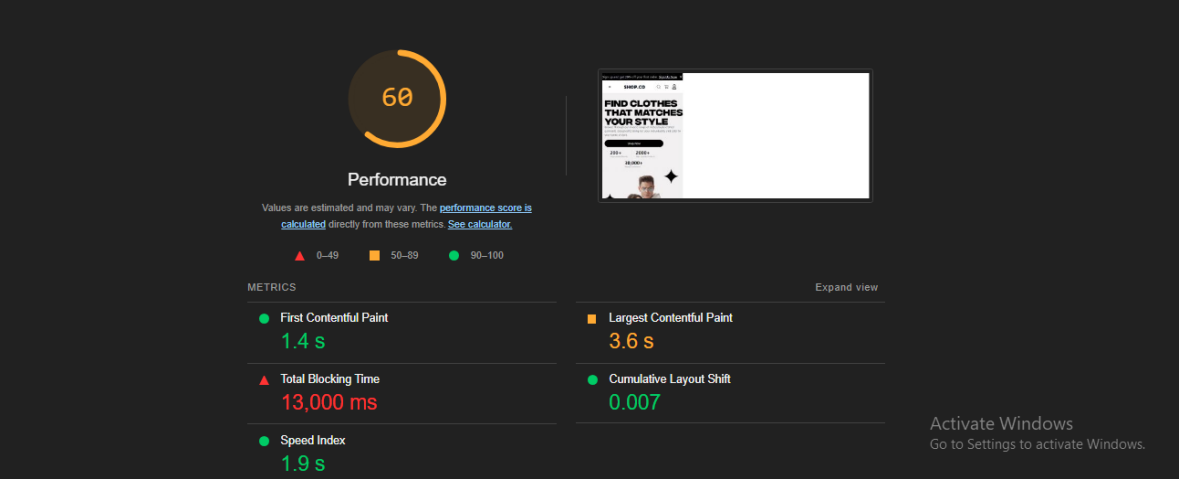
2. Error Handling

Use tri-catch blocks to handle APIs Error. Fallback UI: Display all items perfectly

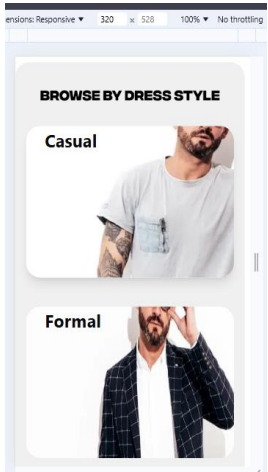
3. Performance Testing







Developer Resource

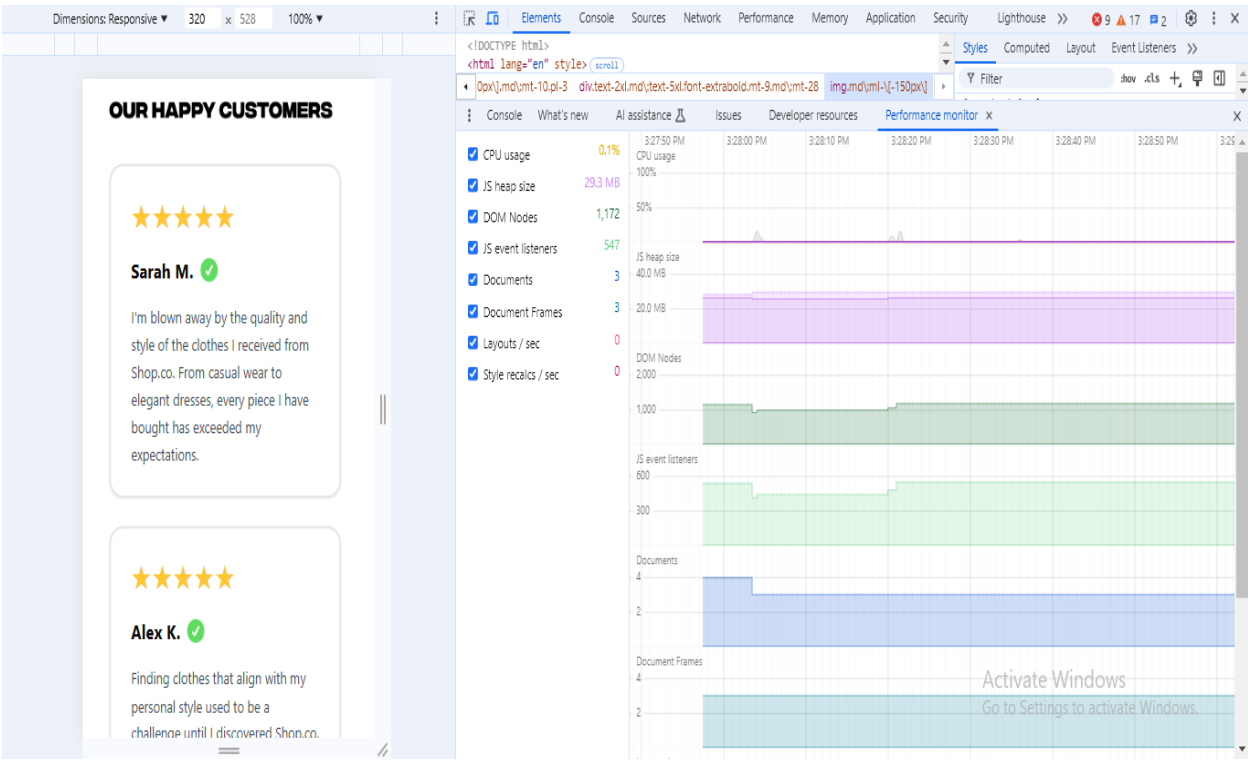


11 resources

Status	URL	Initiator	Total Bytes	Error
success	/jshMyJdLCJzb3VyY2VzQ29udGVudC6WYindXNlIGNsaWVudCddocxuaW1w		17 360	
success	/son;charset=utf-8;base64,eyJ2ZXJzaW9uIjozLCJmaWxjoiKGFwcC1wYWdlc		666	
success	/MTZkYlJdLCJzb3VyY2VzQ29udGVudC6WYindXNlIGNsaWVudCddocxuaW1w		1 165	
success	/son;charset=utf-8;base64,eyJ2ZXJzaW9uIjozLCJmaWxjoiKGFwcC1wYWdlc		5 178	
success	/MjoiZlJdLCJzb3VyY2VzQ29udGVudC6WYindXNlIGNsaWVudCddocxuaW1w		2 360	
success	/ZWQ4YSJdLCJzb3VyY2VzQ29udGVudC6WYindXNlIGNsaWVudCddocxuaW1w		6 722	
success	/son;charset=utf-8;base64,eyJ2ZXJzaW9uIjozLCJmaWxjoiKGFwcC1wYWdlc		471	
success	/YUxMjoiZlJdLCJzb3VyY2VzQ29udGVudC6WYindXNlIGNsaWVudCddocxuaW1w		4 550	
success	/MDhYlJdLCJzb3VyY2VzQ29udGVudC6WYindXNlIGNsaWVudCddocxuaW1w		2 278	
success	/son;charset=utf-8;base64,eyJ2ZXJzaW9uIjozLCJmaWxjoiKGFwcC1wYWdlc		6 006	
success	/son;charset=utf-8;base64,eyJ2ZXJzaW9uIjozLCJmaWxjoiKGFwcC1wYWdlc		5 879	

Activate Windows
Go to Settings to activate Windows.

Performance Monitor



Issue



Testing Report

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
TC001	Validate Product listing page	Open Product Page>check product grid	Products displayed correctly	Products Displayed correctly	passed	Low	-	All functional
TC002	Test API handling	API Successfully Working	Fallback UI shows "All products"	Fallback UI displayed	Passed	Medium	-	Error Handling found
TC003	Add To Cart	Add product to cart > check out	Cart updates with added product	Cart updates as expected	passed	High	-	Works as expected
TC004	Search Functionality	Search for Products	Relevant Products are displayed	Correct result displayed	passed	Medium	-	Test Successfully
TC005	Mobile Responsiveness	Resize browser to mobile view	Layout adjusts for mobile view	Layout adapts perfectly	passed	Medium	-	Responsive On all tested devices

Conclusion

The e-commerce website is now thoroughly tested & optimized for real-world usage. Key functionalities have been validate, error handling, mechanisms implemented and performance optimized. Final deployment is recommended following minor fixes highlighted during tested.