

# 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”

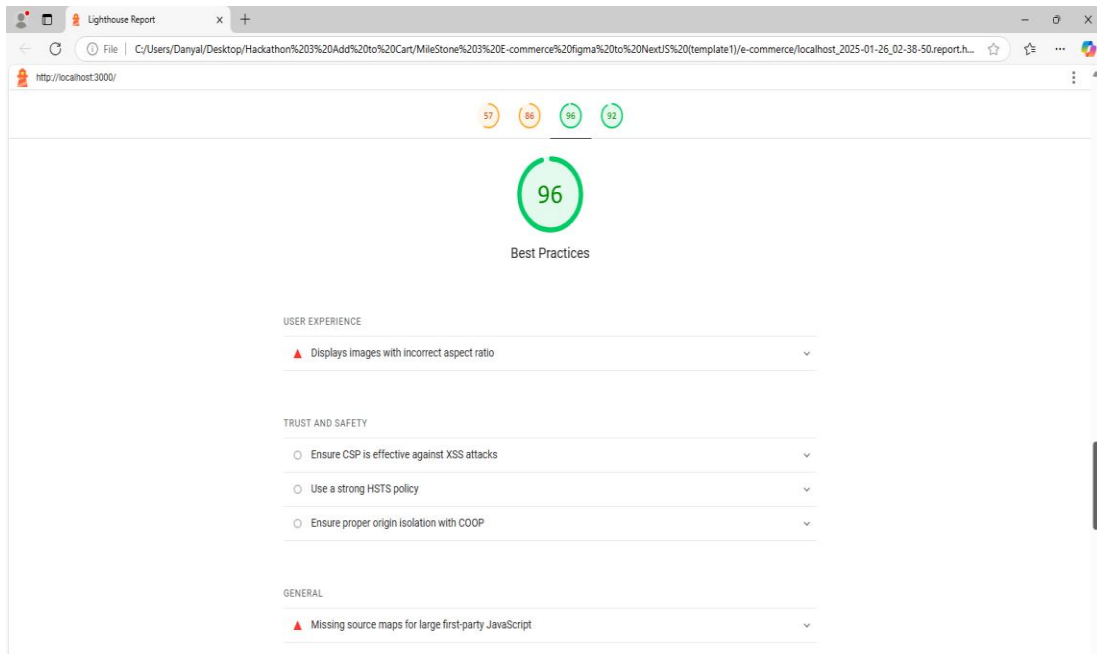
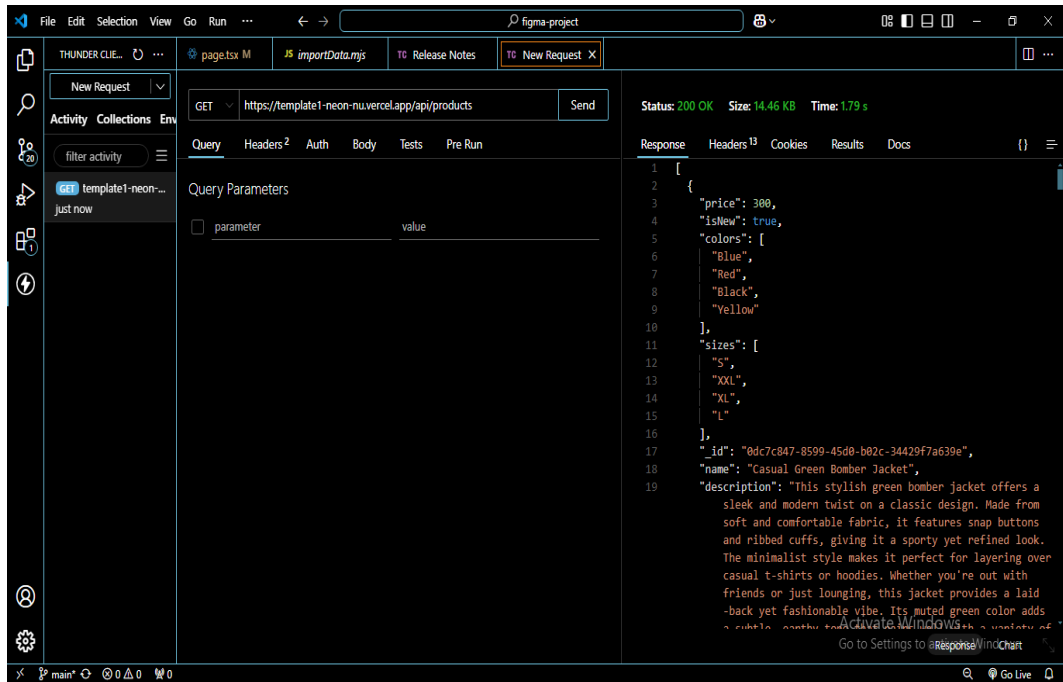
#### 1. Functional Testing

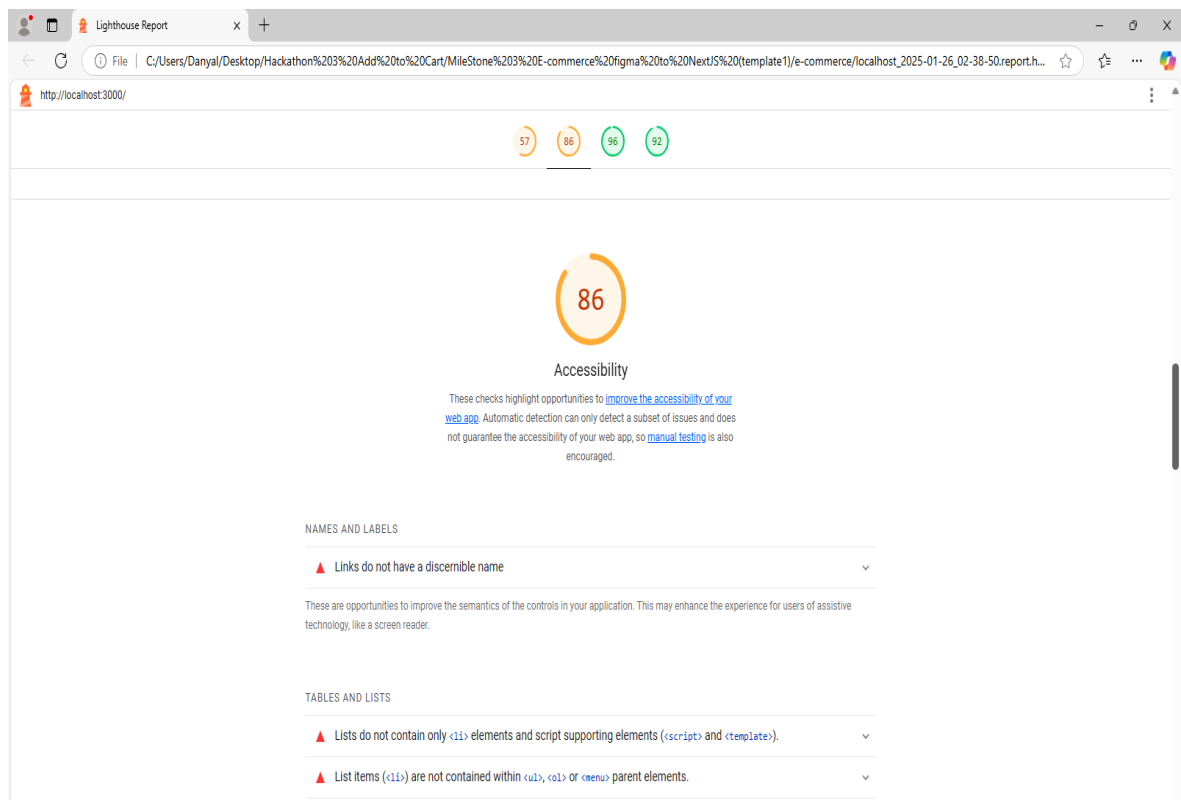
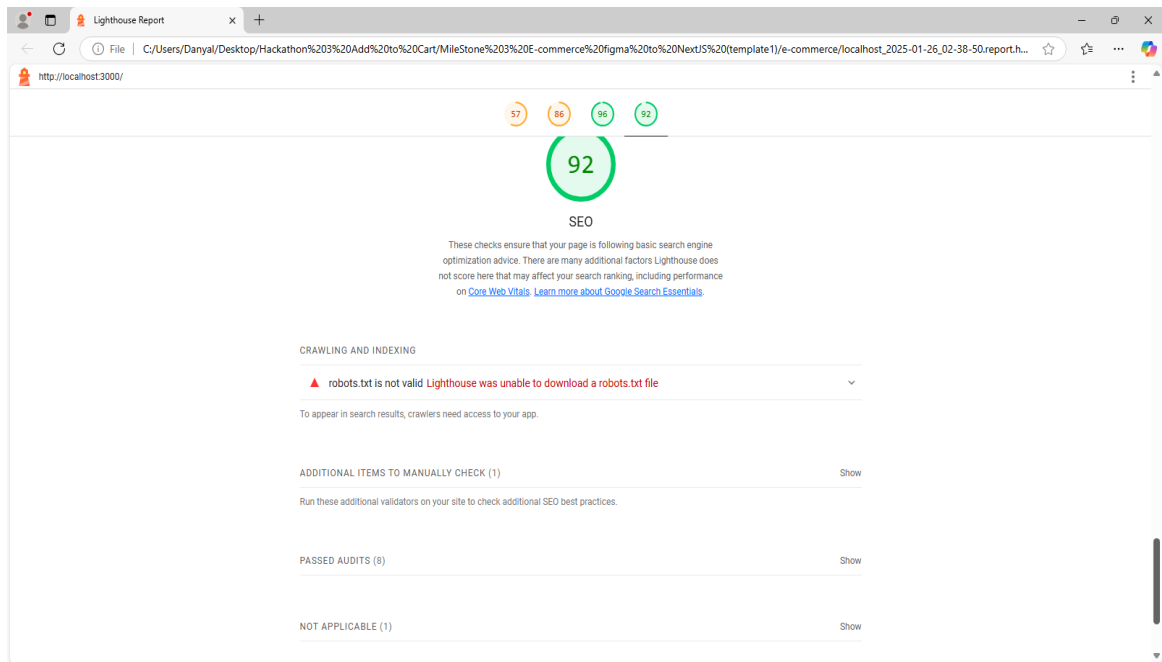
2. Display of products (images, description, prices & reviews).
3. Cart operations: Add, update, and remove items from the cart.
4. Dynamic routing: Verify individual product detail pages' load correctly.
5. Navigation Link.

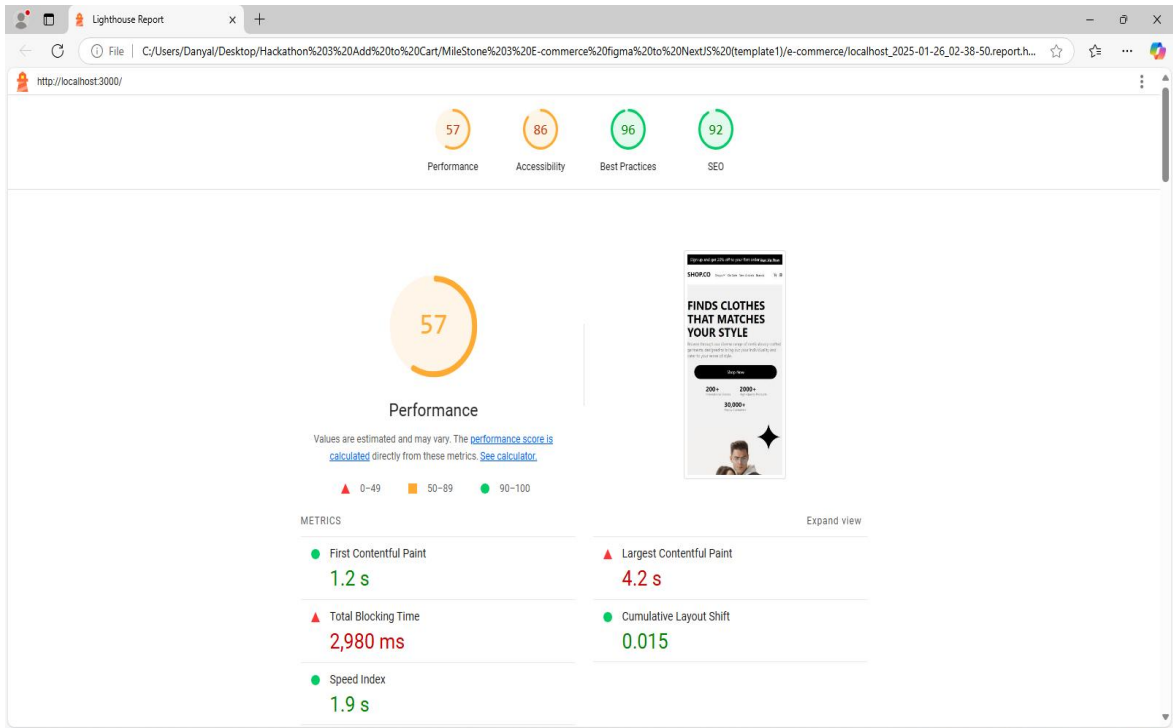
#### 2. Error Handling

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

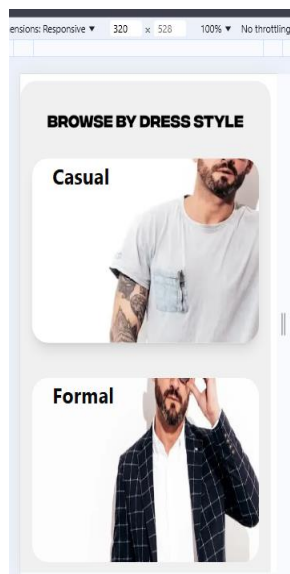
### 3. Performance Testing







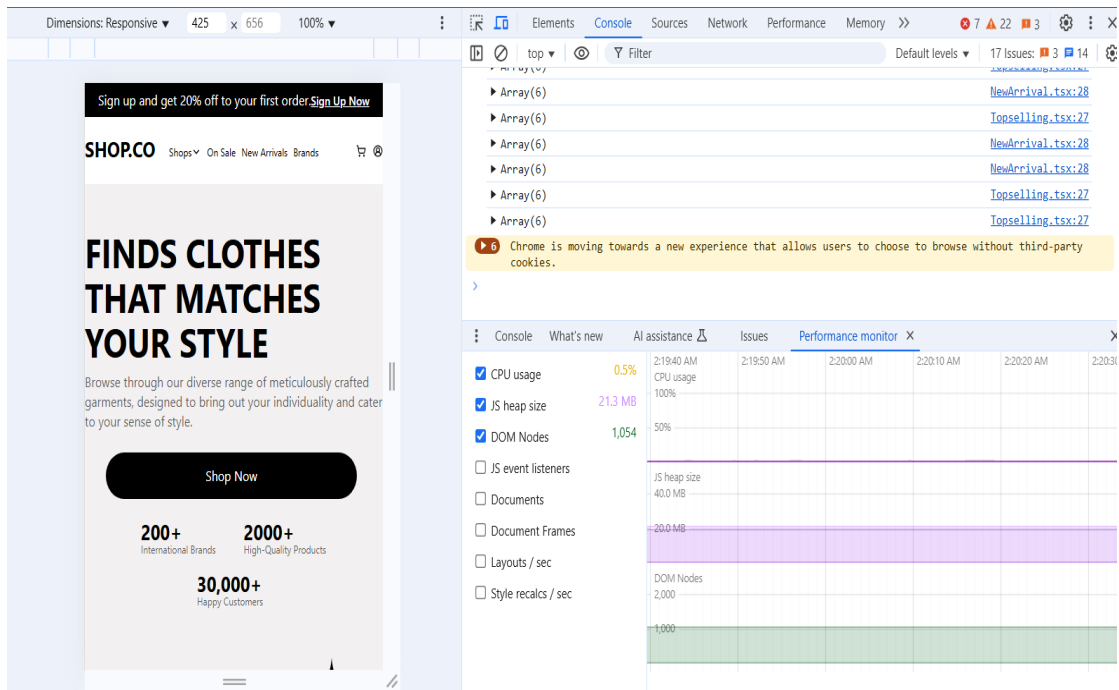
## Developer Resource



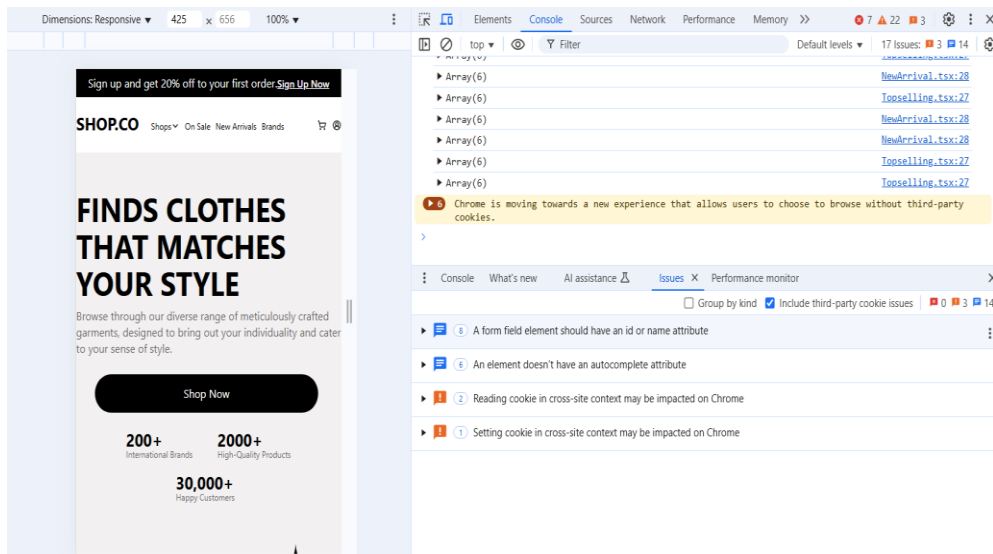
Status	URL	Initiator	Total Bytes	Error
success	/OGMwYldLCIzb3VyY2VzQ29udGVudC6W9uIjo		3 901	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjo		814	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjo		1 173	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjo		674	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjo		4 017	
success	/ZzEwZjZldLCIzb3VyY2VzQ29udGVudC6W9uIjo		7 956	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjo		2 700	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjo		21 047	

8 resources

# Performance Monitor



# Issue



## Testing Report (CSV Format)

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 validating, error handling, mechanisms implemented and performance optimized. Final deployment is recommended following minor fixes highlighted during tested.