

DAY 5 – TESTING AND BACKEND REFINEMENT [General E-commerce]

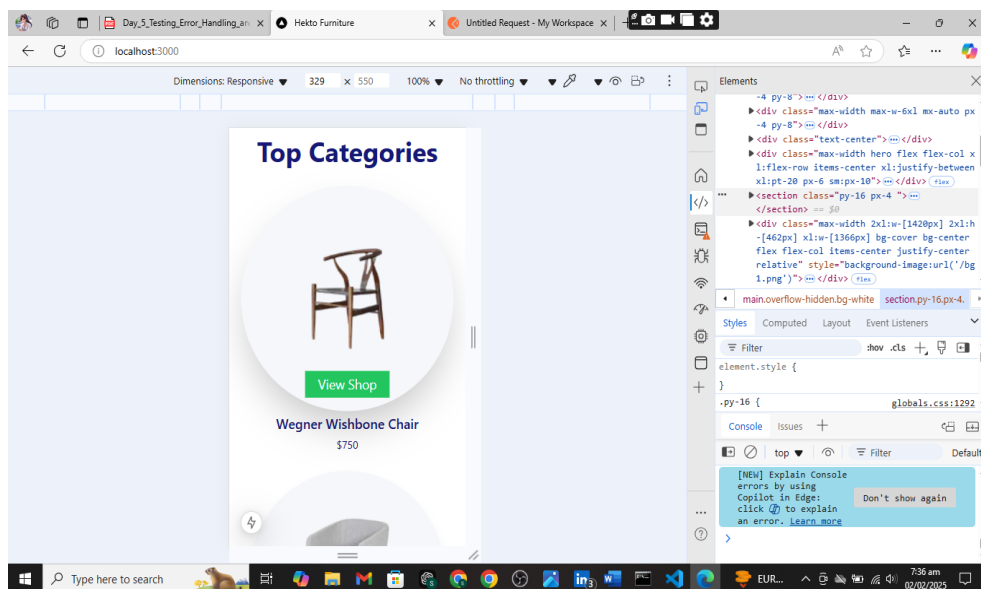
[Muhammad Kamran]

Day 5 focuses on ensuring the marketplace is ready for real-world deployment by performing thorough testing, optimizing performance, and refining the user experience.

Functional Deliverables:

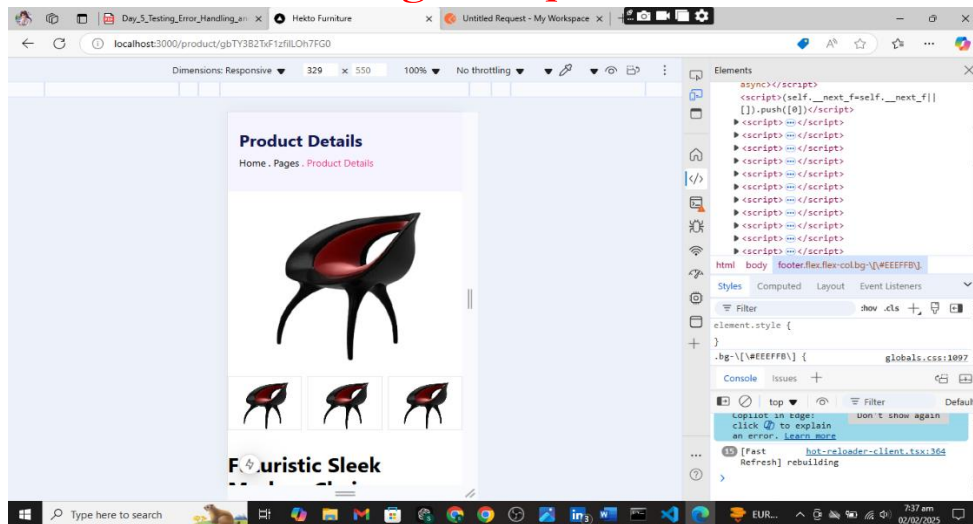
- 1) Screenshots: Functional & responsive component

Responsive Categories Component across all devices

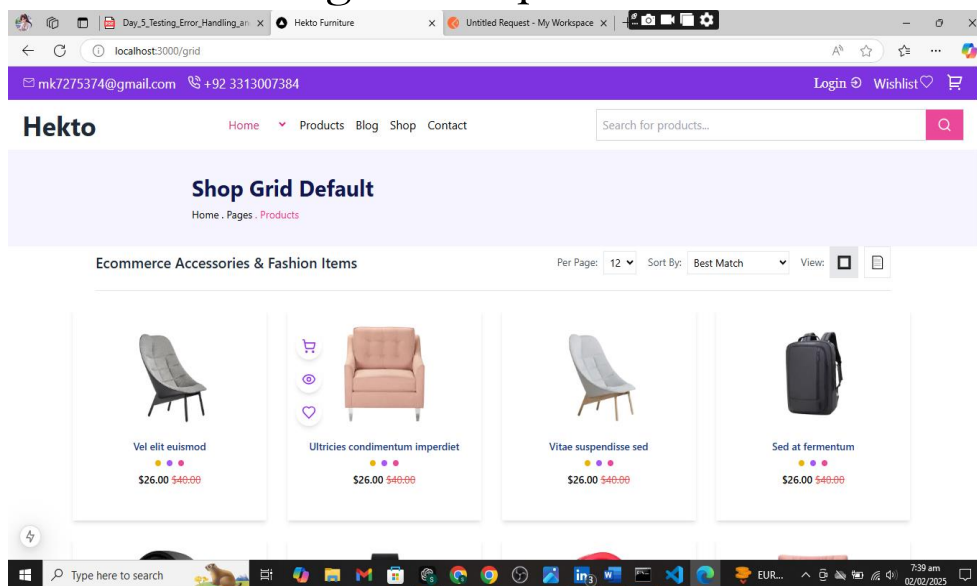


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Product Detail Page Responsive UI

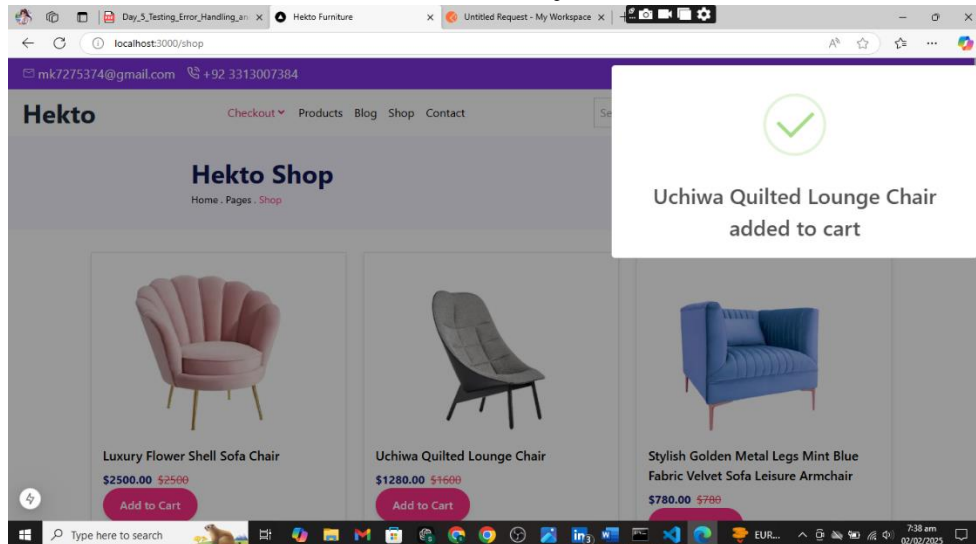


Product Listings + Responsive UI

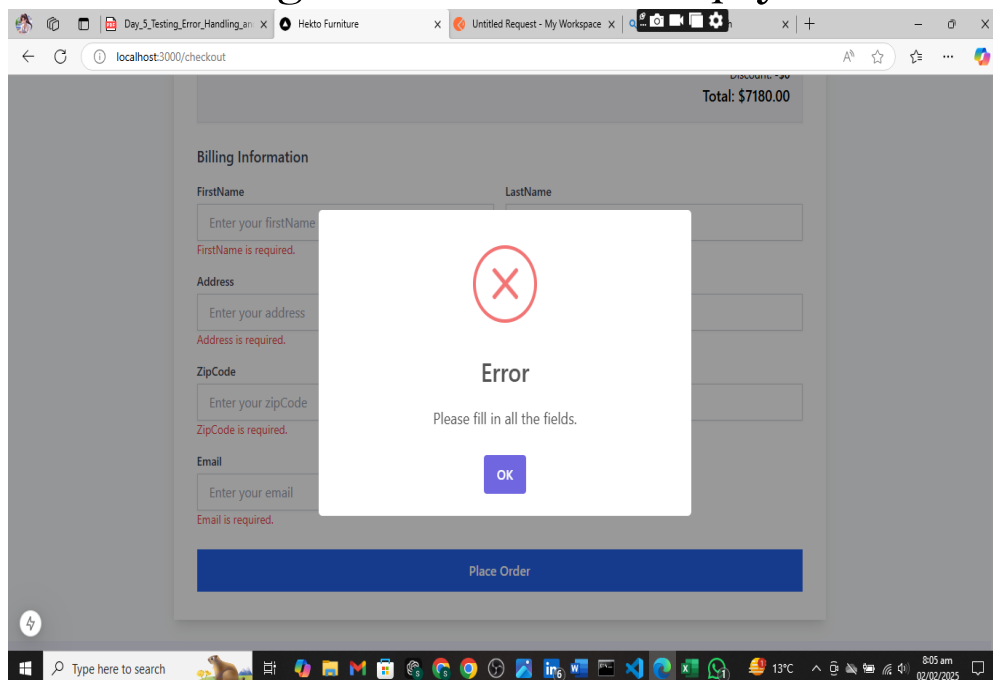


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Cart Button Functionality and Error Handling

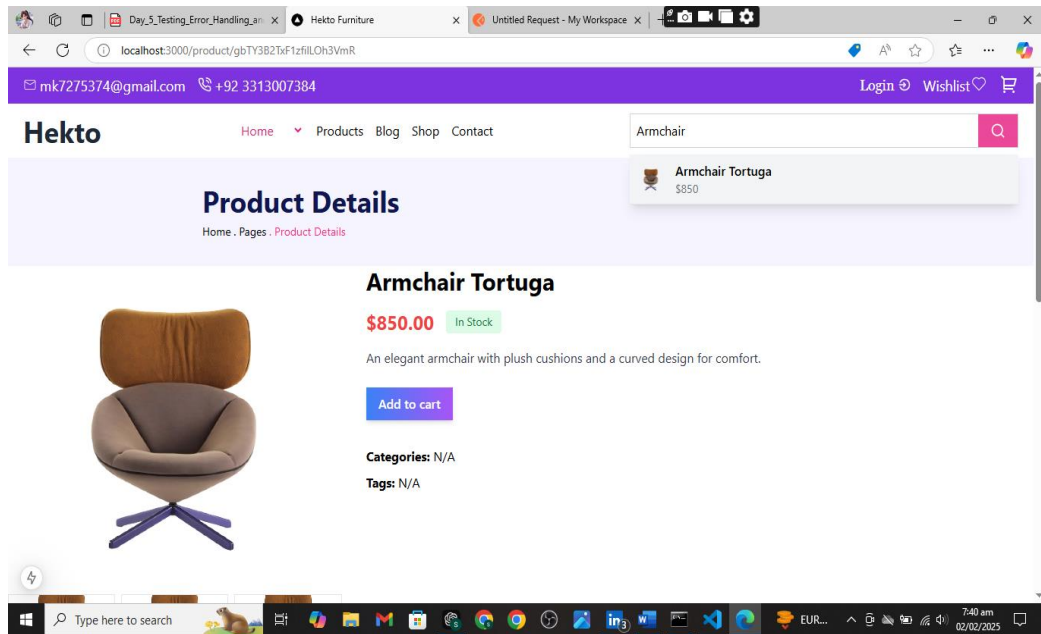


Error message: When cart is empty..

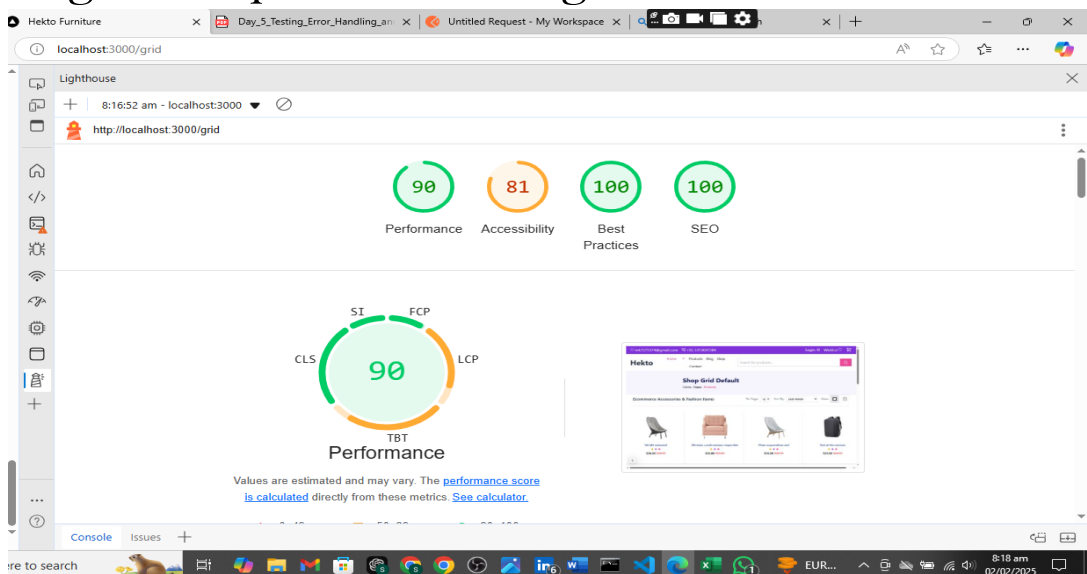


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Search Functionality- Search products by their title



Logs or Reports: Used Lighthouse



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2) Testing Report (CSV Format):

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Remarks
TC001	Product Listing - Image Fetch Failure	1. Go to product listing. 2. Simulate network issue.	Product images should load correctly	Error message "Image fetch failed" appeared due to network issue.	Failed	Medium	Fixed by resolving the network issue.
TC002	Checkout Process with Missing Cart Items	1. Attempt to checkout with no items in the cart. 2. Verify error message.	A message should appear saying "Your cart is empty."	"Cart is empty" message appeared correctly.	Passed	Low	Checkout Functionality worked as expected
TC003	Product Search Functionality	Enter a search term Verify search results are relevant.	Relevant products related to search should appear.	Relevant results appeared for the search.	Passed	Medium	Search works correctly.
TC004	Error Handling for API Failure	Disconnect internet or simulate API failure.	Error message should appear.	Error message displayed as expected.	Passed	High	Error handling works successfully
TC005	Mobile Responsiveness	Verify that the product layout adapts correctly to all screen size.	Layout should be responsive across all devices	Layout was responsive on all screen sizes was no issues.	Passed	Low	Mobile version tested successfully.
TC006	Security - Input Validation for Email Field	Enter an invalid email address	Form should reject invalid email formats with an error message	Invalid email format was rejected with an error.	Passed	High	Email validation works as expected.
TC007	User Login with Incorrect Credentials	1. Enter incorrect username/password.	User should see an error message: "Invalid username or password."	Error message displayed correctly.	Passed	Medium	Handled Successfully as expected.

3) Checkout Process

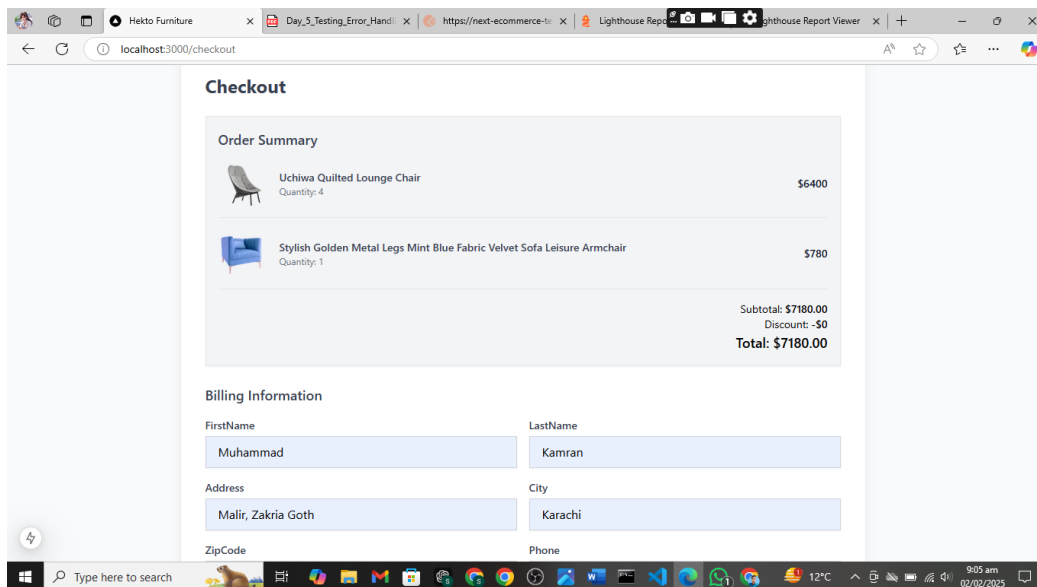
a) Problem:

During testing it was observed that when user attempted to proceed to the checkout page with no items in the cart, the system did not prevent them from doing so.

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b) Resolution

To resolve this, a validation step was added to check whether to proceed cart is empty before proceeding to the checkout page. If the cart is empty, the user is now presented with a clear message such as “Your cart is empty”.



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CHECKLIST FOR DAY 5:

Functional Testing :	✓
Performance Optimization :	✓
Cross-Browser & Device Testing :	✓
Security Testing:	✓
Documentation :	✓
Final Review :	✓