

# Hackathon Day 5:

## Type of Market Place :- General E-commerce Avion

## Testing, Error Handling, And Backend Integration Refinement:

### Functional Testing:

#### Product Listing:

Verify that products are displayed correctly, ensuring that each item appears with the correct title, price, and images.

#### Dynamic Routing:

Verify that individual product detail pages load correctly when a user clicks on a product from the listing. Ensure that each product's unique URL corresponds to the correct product page, displaying relevant information such as product title, description, price, images, Dimensions , and Features .

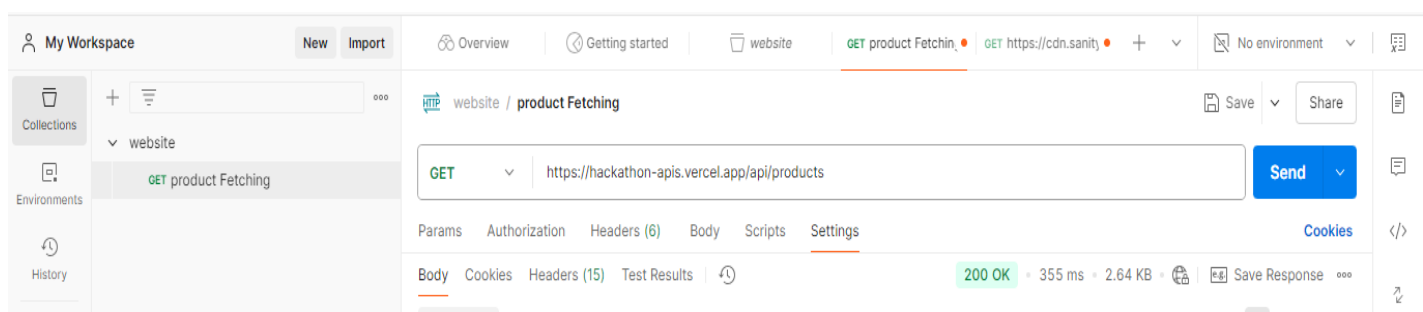
#### Cart Operations:

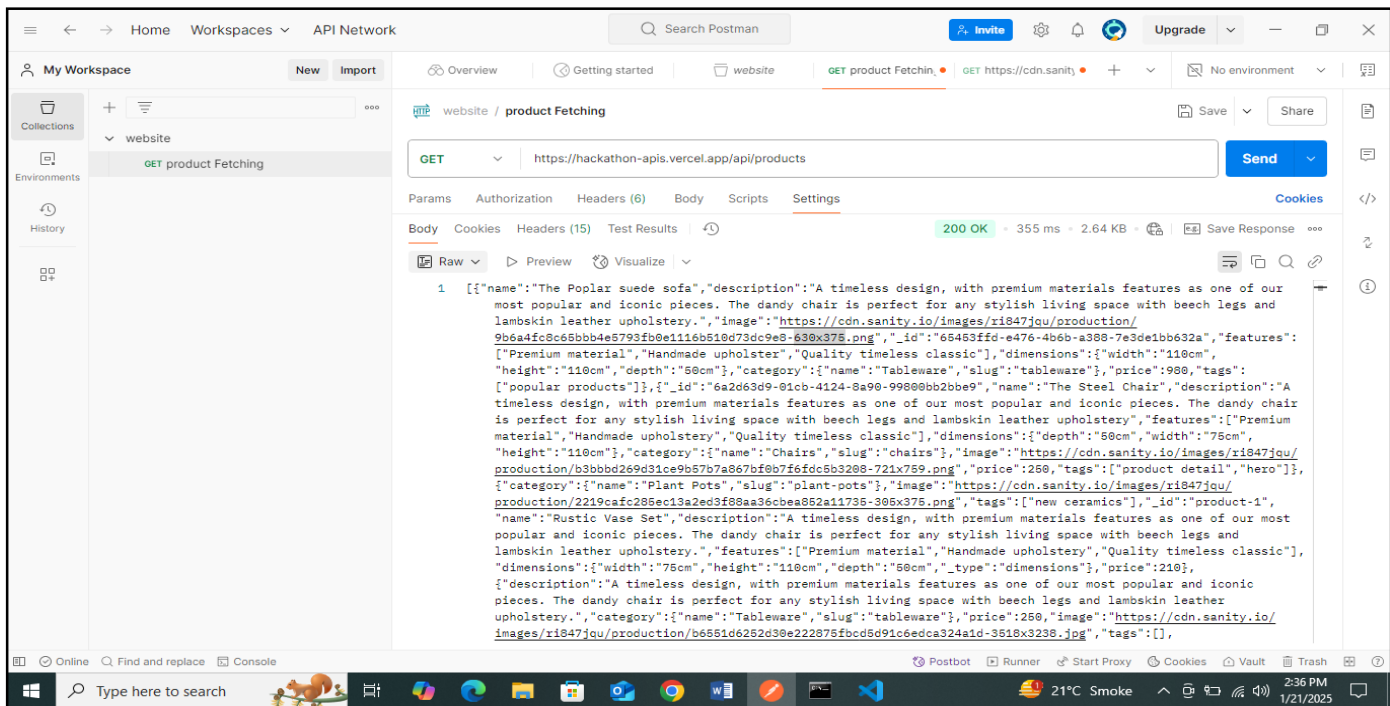
Verify adding, updating, and removing items in the cart works correctly, with real-time updates to quantity, subtotal, and cart total."

### Testing Tools:

Postman: -

**API Response:** The API is fetching data accurately, returning the correct status codes, and displaying all products as expected without issues.



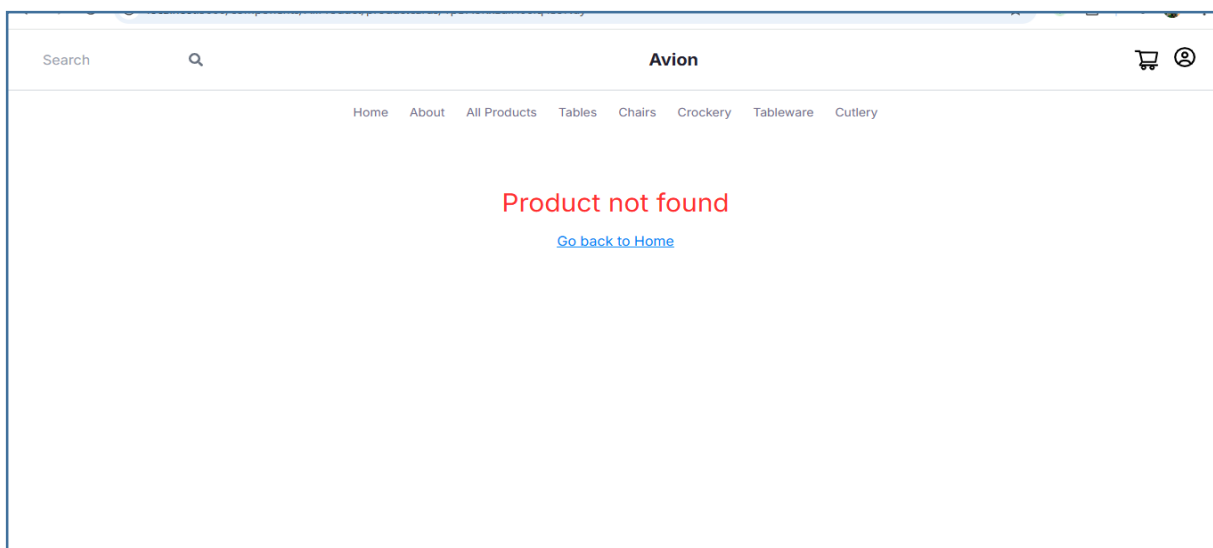


## Error Handling:

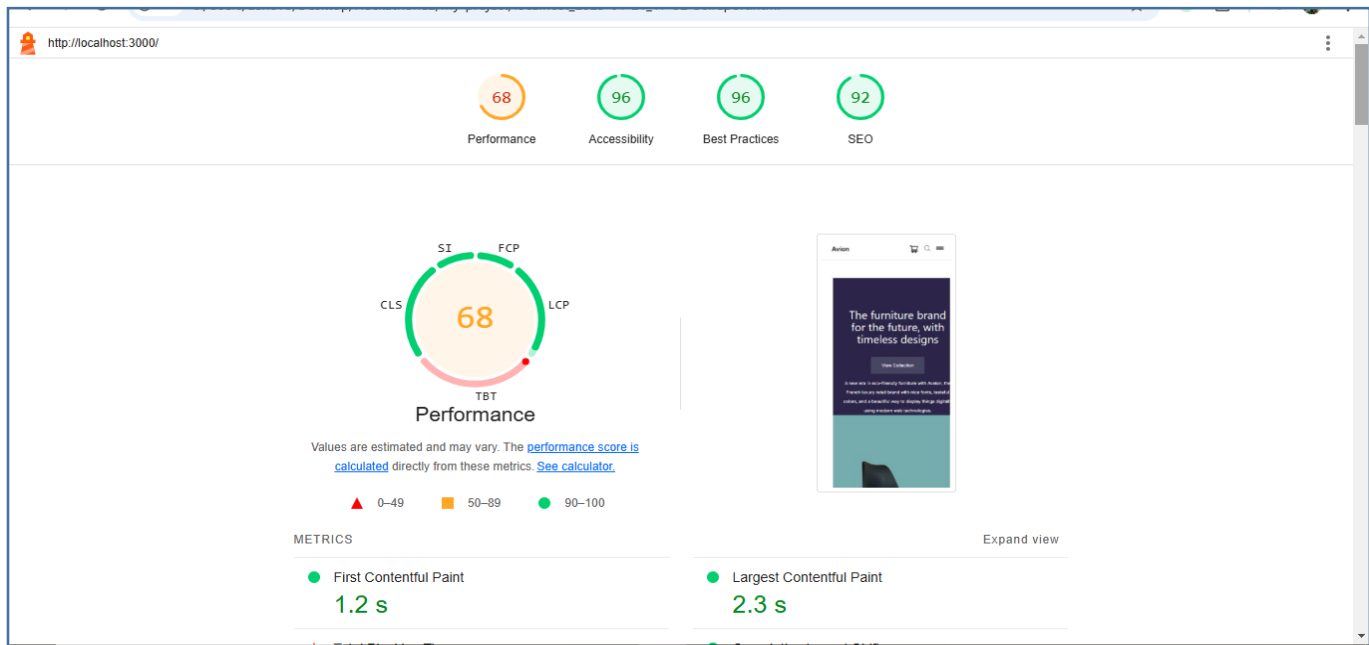
The website effectively manages errors, such as invalid inputs, API failures, and unavailable pages, by displaying user-friendly error messages while maintaining functionality."

## Fallback UI:

The website displays alternative content like 'No items found' messages or placeholders when data is unavailable, ensuring a seamless user experience."

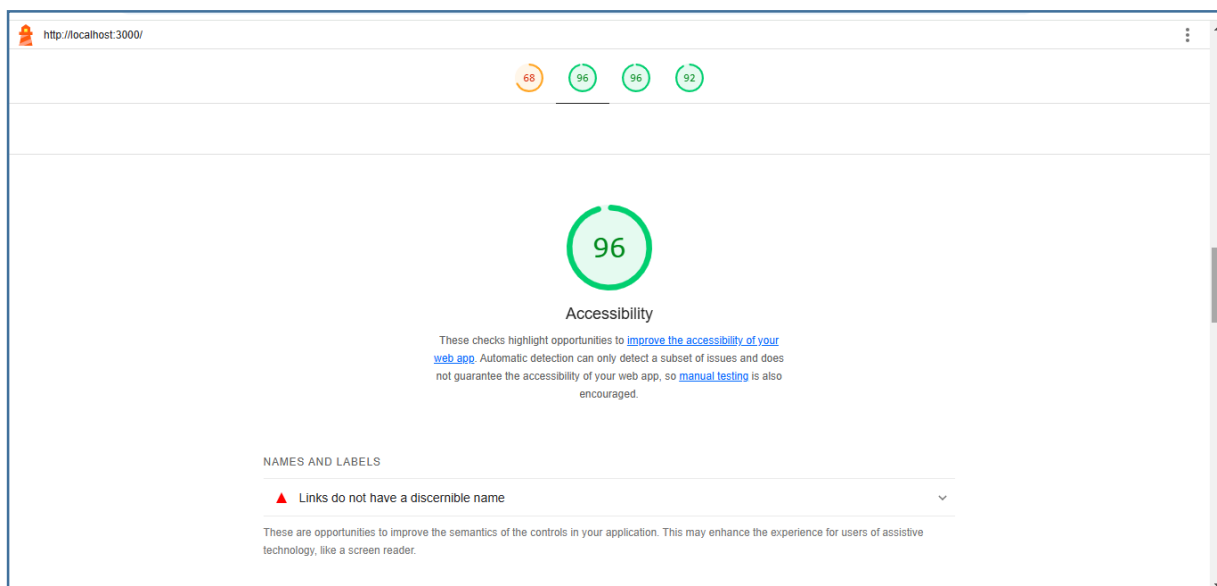


## Performance Optimization:-



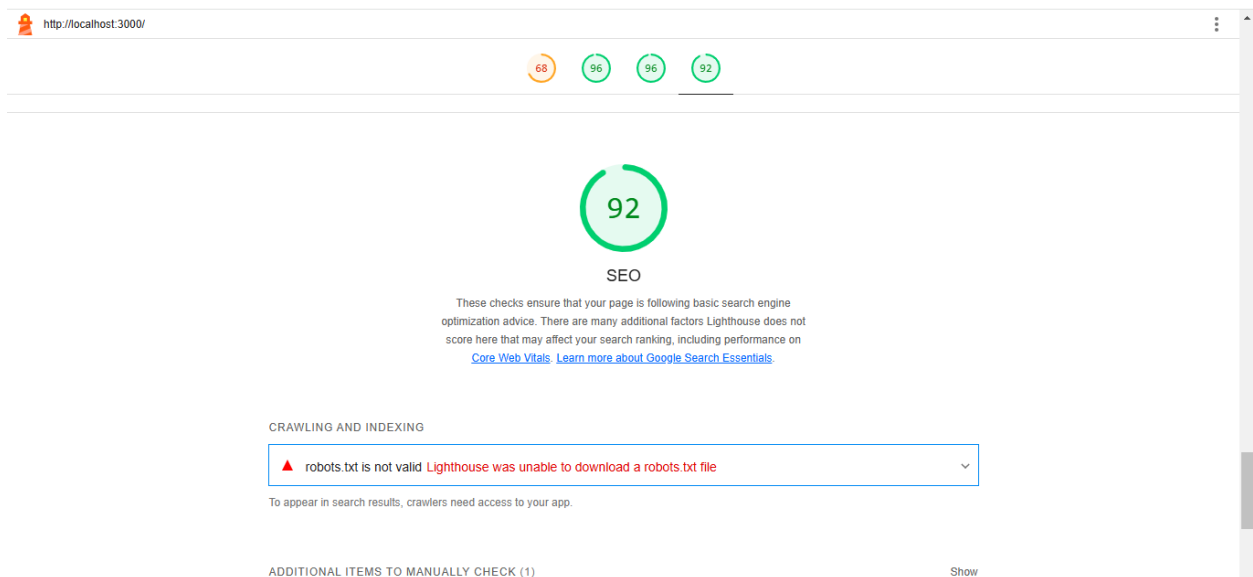
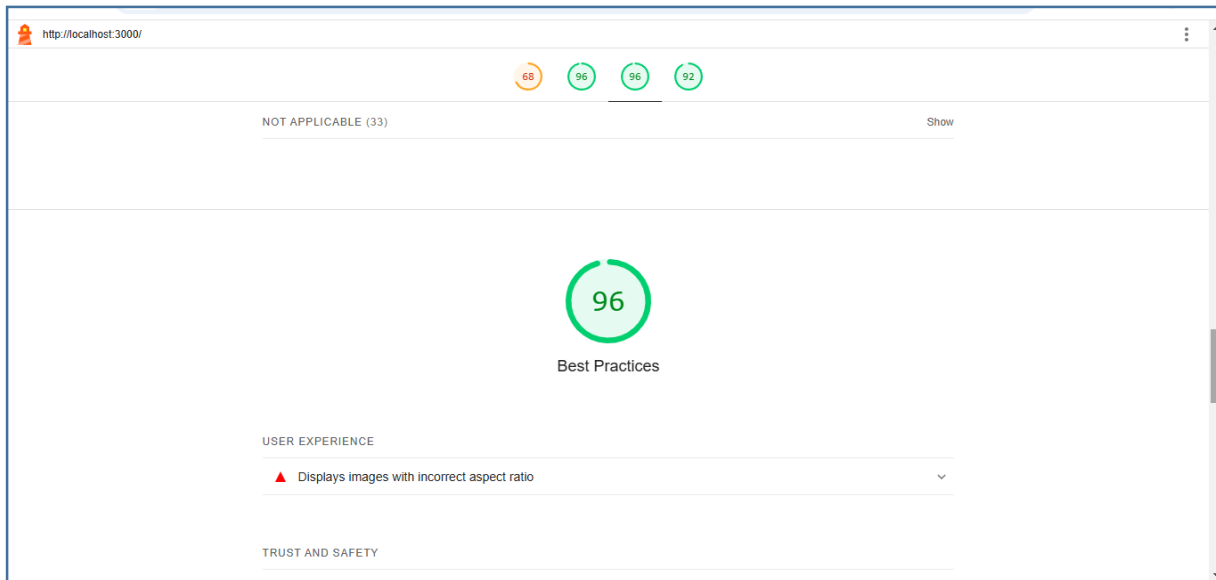
## Accessibility:

The website ensures usability for all users, including those with disabilities, by supporting keyboard navigation, screen readers, and maintaining adequate color contrast for better visibility.

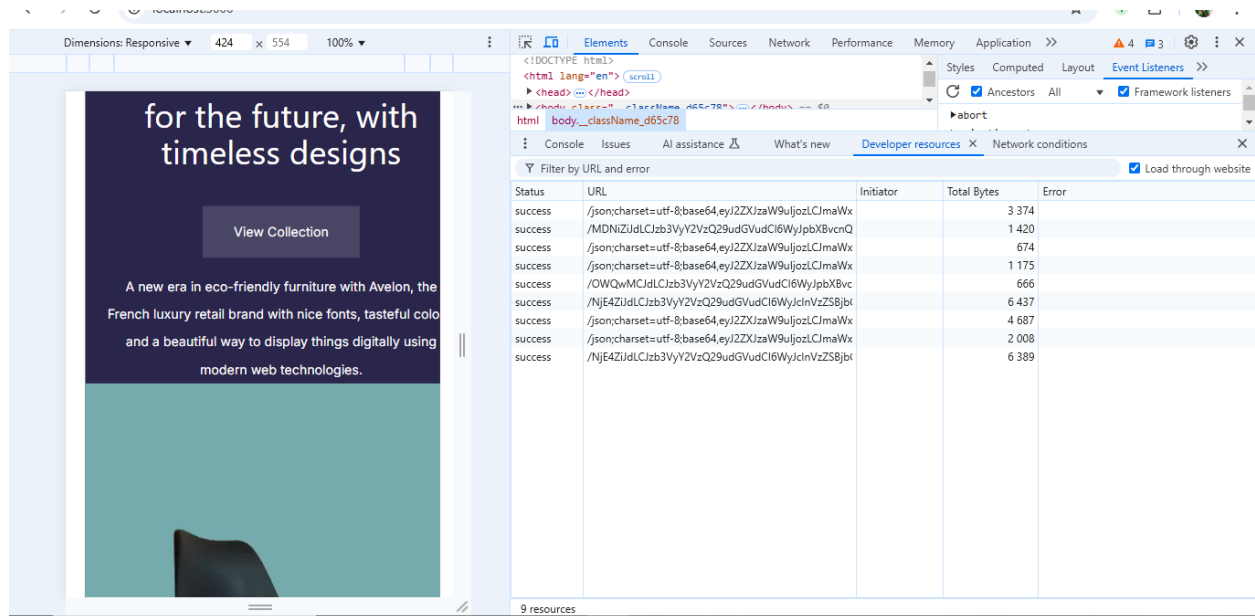


## Best Practices:

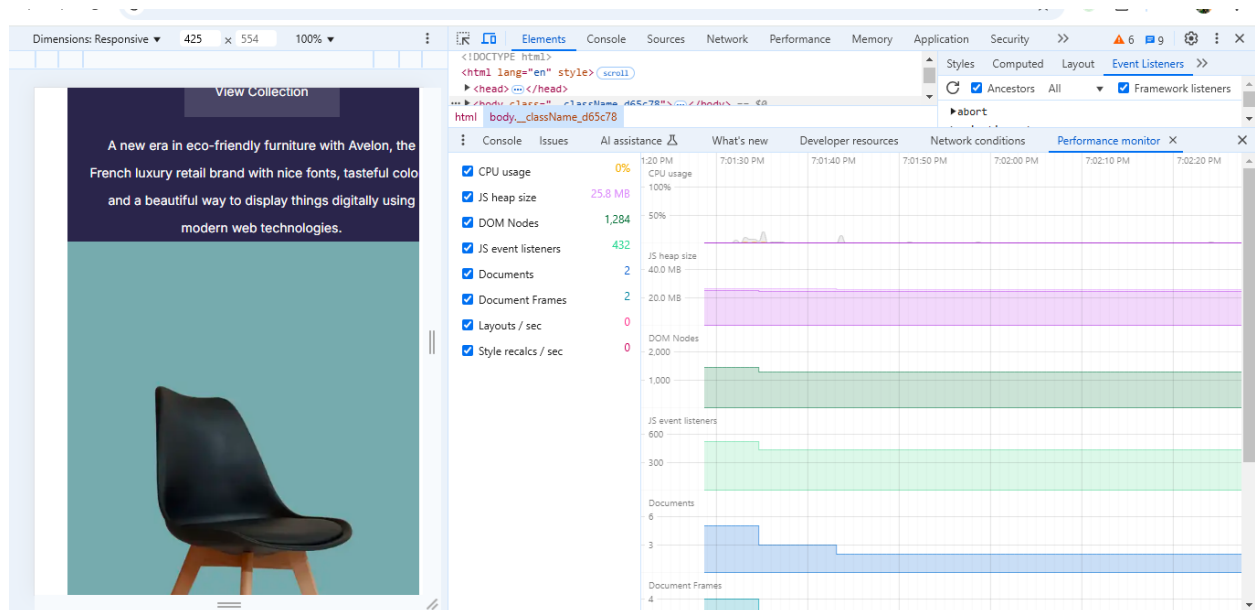
Follow industry standards for clean, modular code, ensure responsive design, optimize performance, prioritize security, and maintain clear documentation for better maintainability and scalability.



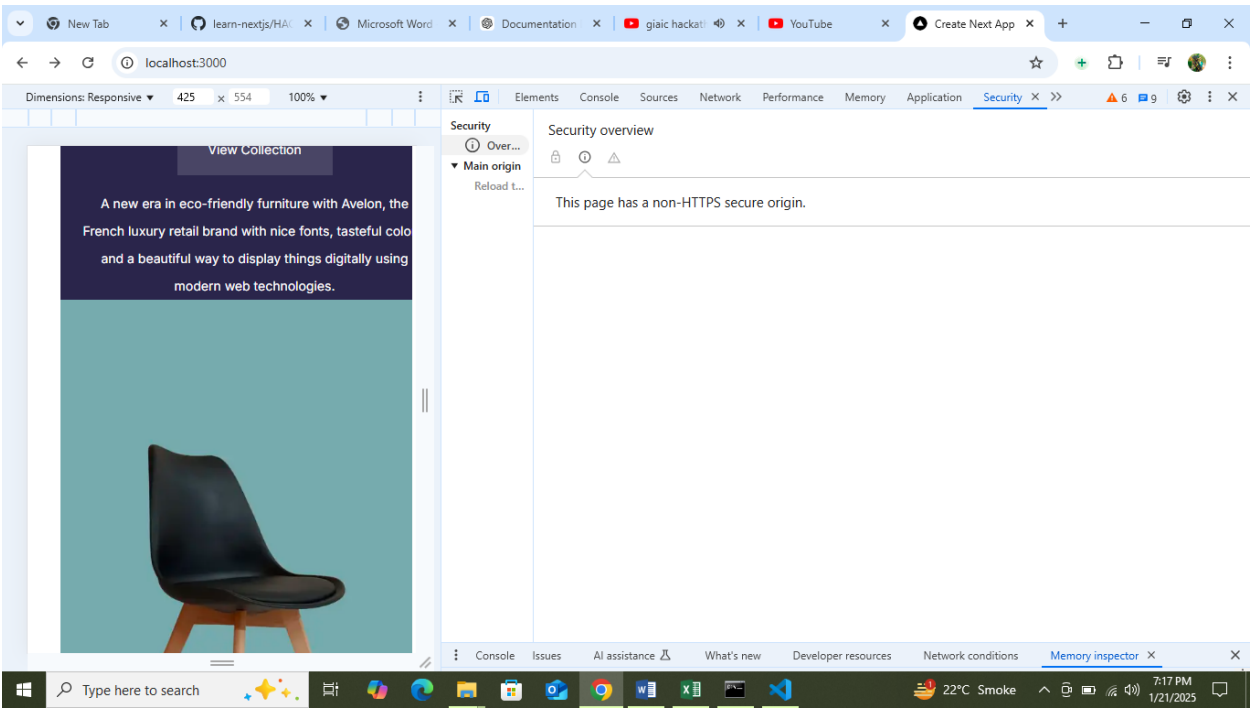
## Developers Resources :



## Performance Monitor:



# Security Testing



**Security Testing:** Verify the website's defenses by testing for vulnerabilities like SQL injection, XSS, CSRF, and weak authentication. Ensure data encryption, secure API communication, and proper access controls are in place.

## Testing Report:-

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 > Verify products	Products displayed correctly	Products displayed correctly	Passed	Medium	-	No issues found	
TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	-	Handled gracefully	
TC003	Check cart functionality	Add product to cart > Verify cart content	Cart updates with added product	Cart updates as expected	Passed	High	-	Works as expected	
TC004	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	Medium	-	Test successful	

Summarize the results of all tests, including test cases executed, pass/fail status, identified bugs, severity levels, and recommendations for fixes. Include sections for functional testing, security testing, performance metrics, and user experience evaluations.