CSV-BASED TESTING REPORT:

Test Case ID	Test Case Description	Test Steps	Expected result	Actual Result	Status	Severity Level	Ass ign ed To	Re ma rks
TC001	Validate Product listing Page	Open Product page> Verify Products	Products displayed correctly	Products displayed correctly	Passed	High	-	No issues found
TC002	Test Api Error Handling	Disconnect Api> Refresh Page	Show fallback UI with error message	Error message shown	Passed	Medium		Handl ed gracef ully
TC003	Check cart Functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	Low	2	Not to Good
rC004	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	High		Test succ essf ul

CSV-Content:

- Test Case ID, Test Base Description, Test Steps, Expected Result, Severity Level, Assigned to, Remarks.
- TC001 validate chair listing page, open listing page, > Verify chairs details, chairs displayed correctly, Passed, Low, 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 Validate performance, Use lighthouse/GT Metrix > Check Performance score above 90 Passed High Optimized.
- TC005 Validate SEO, Use SEO Tools > Check Meta tags and alt, text, present, All SEO elements present, Passed, Medium

. Conclusion:

 The testing process for the general e-commerce has been successfully completed covering all essential aspects such as functionality, error handling, performing, accessibility, SEO and security.

STEP-01: Functional Testing

Short Description:

Functional Testing ensures all features work as expected, including products listing, details pages, cart operations, and user profiles.

Features Tested:

- **Product listing page:** Verify chairs display correct details (make, price, availability). Required: Data fetch and display without errors.
- Product Detail pages: Confirm chairs details page and everything.
 Required: product page load with all relevant details.

Step-02: Error Handling

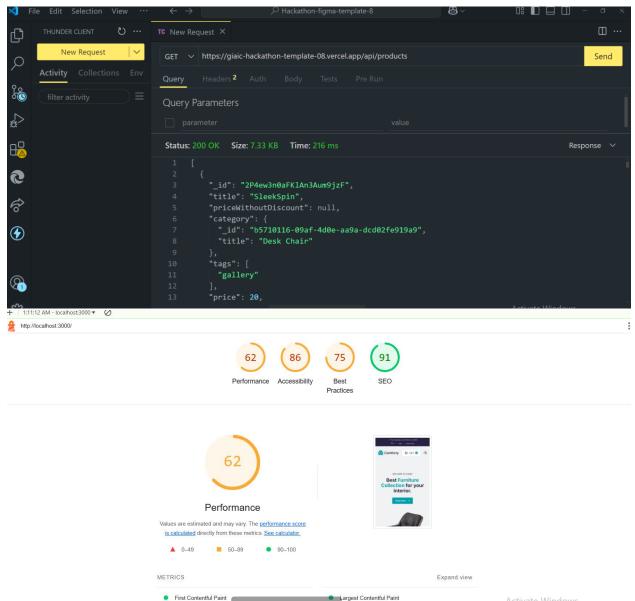
Short Description: Error handling ensures that any issues with the app, such as network failures or invalid data, are communicated clearly to users. This helps prevent crashes and ensures a smooth experience.

Input Validation: Ensure user inputs are correct and fall within the acceptable range before processing them.

Network failures: Display network error please try again later. If there's a network issue.

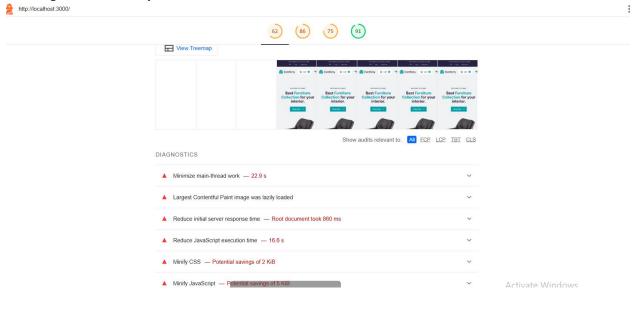
Fallback UI Elements: If no data is fetched (e.g. empty product list) show, No products available.

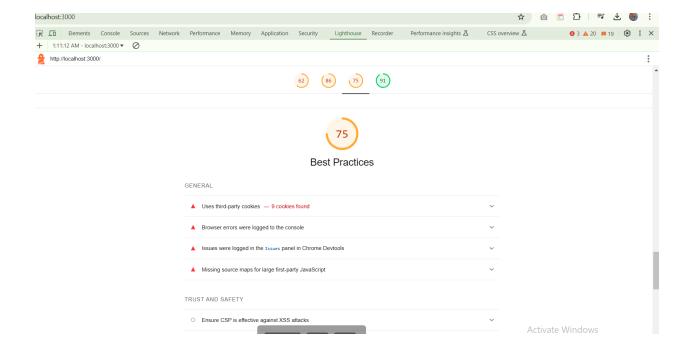
Step:03 (Performance Testing)



The accessibility of the website was tested to ensure it meets web standards. Below is the screenshot

showing the accessibilty score and issues identified.





Trust and Safety:

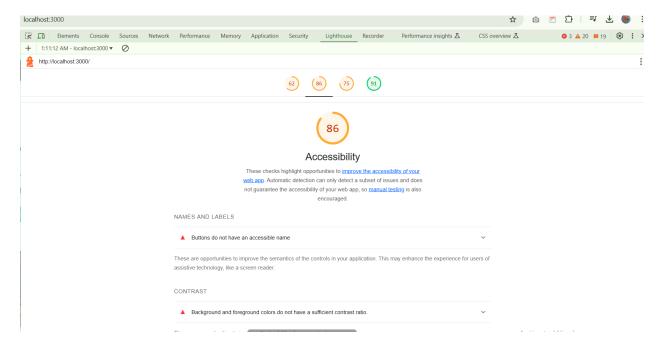
- Ensure CSP is effective against XSS attacks.
- Use a strong HSTS policy.
- Ensure proper origin with COOP.

Step:4 Cross-Browser and device testing:

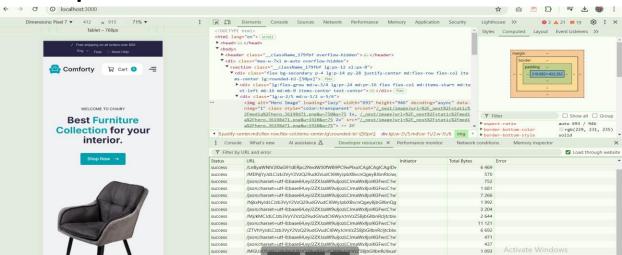
Description: The marketplace was tested across various browsers and devices to ensure consistent performance and responsiveness.

Key Points:

- . Test the marketplace on popular browsers and devices to ensure consistent.
- . Verified responsive design on desktop, tablet, and mobile devices.



Developer Resources:

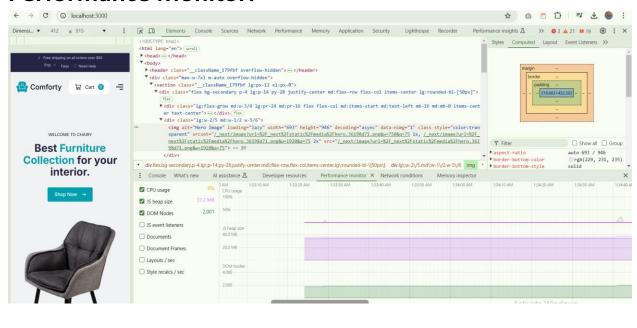


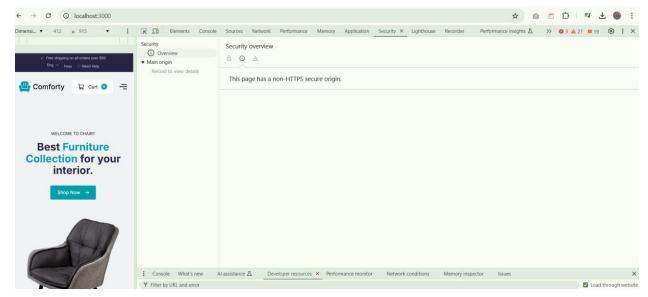
Step:05 Security Testing

Key points For Management:

- 1. Input Validation: santize inputs using validation functions or regular expressions.
- 2. Use HTTPS: Serve the site over HTTPS with an SSL certficate for encrypted communication.
- 3. API Key Security: Store API keys in environment variables (.env) not in frontened code.

Performance Monitor:





Step 6: User Acceptance Testing (UAT):

- Simulate Real-World Usage: Test tasks like browsing chairs, adding chairs to the cart, and completing the checkout and complete the checkout process.
- 2. Identify usability issues such as slow loading confusing navigation or broken forms.
- 3. Solution: If an issues arises, fix UI/UX problems (e.g., improve navigation flow, fix form validation), enhance speed by optimizing code or improve the design for better user interaction.

Step 07: Documentation Updates:

- **Issues and fixes:** key issues have been founded and resolved (e.g performance optimization error handling improvements.
- **Screenshots:** Screenshots have been included to show the changes.
- PDF/Markdown: Documentation has been updated and formatted as per requirements.
- **Test Cases and Tools:** Test cases, tools like Postman, or thunder client, Lighthouse, and optimization strategies have been clearly documented.