# Hackathon Day-5

# Bandage Marketplace Template Testing, Error Handling, and Backend Integration Refinement

#### Objective:

Prepare "My Marketplace Bandage" for real world deployment by thoroughly testing optimizing performance ,and refining backend integrations. Ensure readiness to handle customer-facing traffic while delivering a seamless and error-free user experience.

#### Key Learning Outcomes:

#### Comprehensive Testing:

- 1-validate all features and backend integrations.
- 2-Ensure functional, non-functional and user acceptance testing is complete.

## Error Handling:

- 1-Implement user-friendly error messages and fallback mechanisms.
- 2-Gracefully handle API errors with fallback UI elements.

## Performance Optimization:

- 1-Enhance speed ,responsiveness, and reliability.
- 2-Conduct performance testing to identify and fix bottlenecks.

#### Cross Browser and Device Compatibility:

- 1-Test for seamless functionality across multiple browsers and devices.security testing.
- 2-Identify vulnerabilities and secure sensitive data.

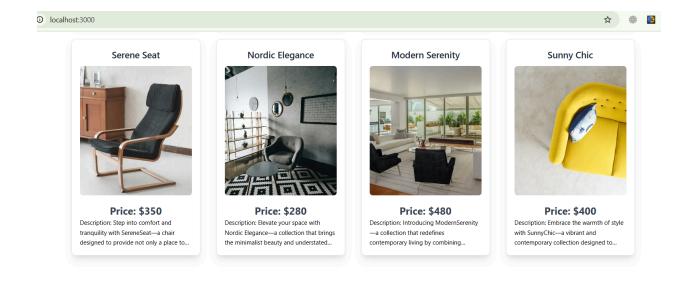
#### Documentation:

- 1-Create professional testing reports(CSV-based)summarizing results and resolution.
- 2- Prepare deployment ready documentation with best practices.

#### Functional Testing:

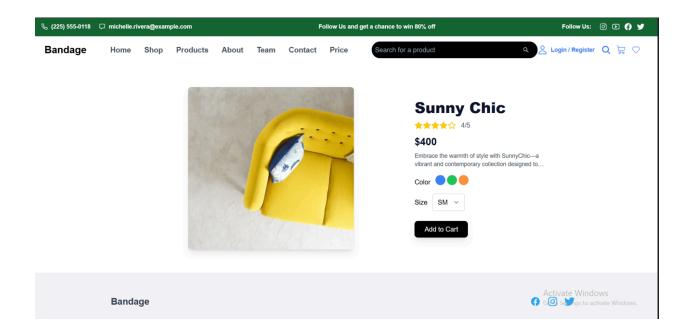
#### **Product Listing:**

Successfully showing all the products fetching from sanity CMS.



#### **Product Details:**

Each product shows on a dynamic detail page.



#### Cart Operation:

Successfully showing products added to cart.

#### Checkout Flow:

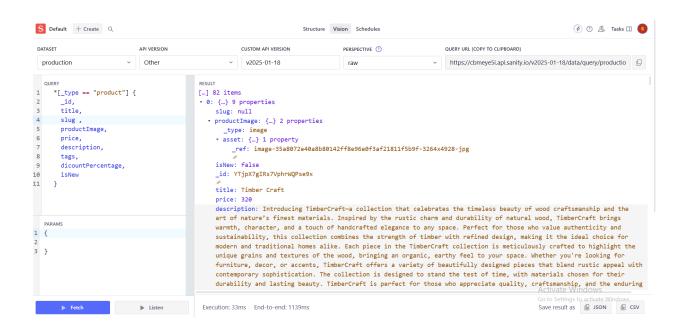
Products from the cart successfully come to check out.

## API Responsive Validation:

API response testing done by using thunder client shows data of products including all the details.

Responsive status: 200 OK.

All the fields were fetched successfully with correct data structure.



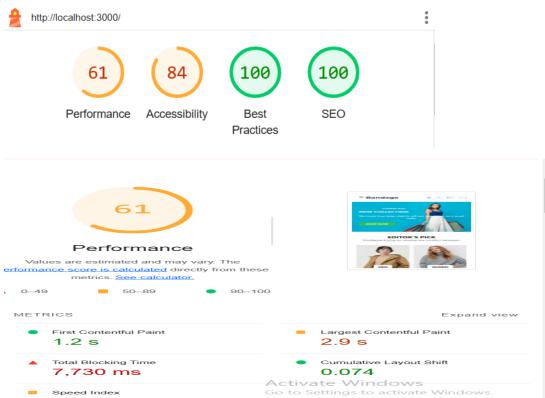
## Testing Report(CSV Format):

For functionality test, testing library of react use and all test cases successfully passed.

	Test Case Id	Test Case Description	Test Steps	Expected Result	Actual result	Status	Severity Level	Assigned To	Remarks
1	TC001	Check product listing	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	High	-	No issues found
2	TC002	Check product detail	Open product detail page > Verify details	Products detail Displayed correctly	Products detail Displayed correctly	Passed	High	-	No issues found
3	TC003	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	High	-	Handled gracefully
4	TC004	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	High	-	Works as expected
5	TC005	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	Medium	-	Works as expected

# Performance Insights:

Speed Index 4.5 s





#### Accessibility

These checks highlight opportunities to <u>improve the accessibility of your web app</u>. Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so <u>manual testing</u> is also encouraged.

#### NAMES AND LABELS

▲ Buttons do not have an accessible name	~
▲ Links do not have a discernible name	~

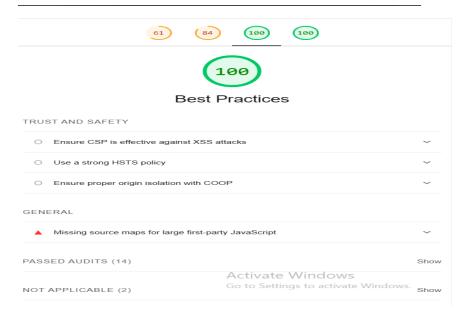
These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

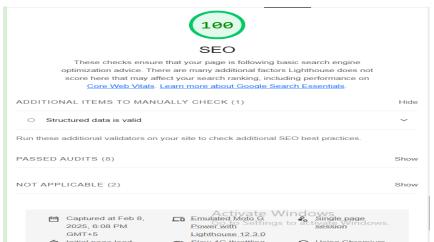
#### CONTRAST

Background and foreground colors do not have a sufficient contrast ratio.
 ACTIVATE WINDOWS

 Go Settings to activate Windows.

Go to Settings to activate Windows. These are opportunities to improve the legibility of your content.





# Checklist for Day-5:

Functional Testing

Error Handling

Performance Optimization

Cross Browser and Device Testing

Security testing

Documentation

Final Review