

Day 5 - Testing, Error Handling, and Backend Integration

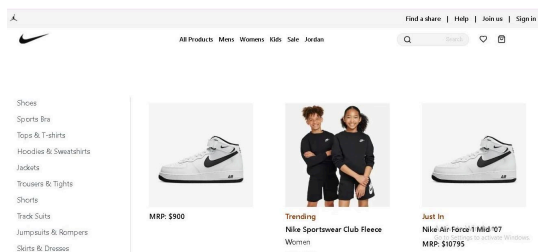
Introduction :

This Document focuses on preparing “Nike store” marketplace for real-world deployment by ensuring all components are thoroughly tested, optimized for performance, and ready to handle customer-facing traffic. The emphasis will be on testing backend integrations, implementing error handling, and refining the user experience.

Functional Testing:

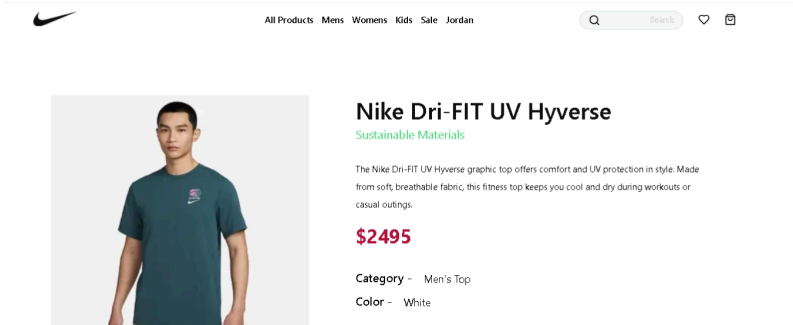
- **Products Listing :**

Successfully showing all the products fetching from sanity CMS.



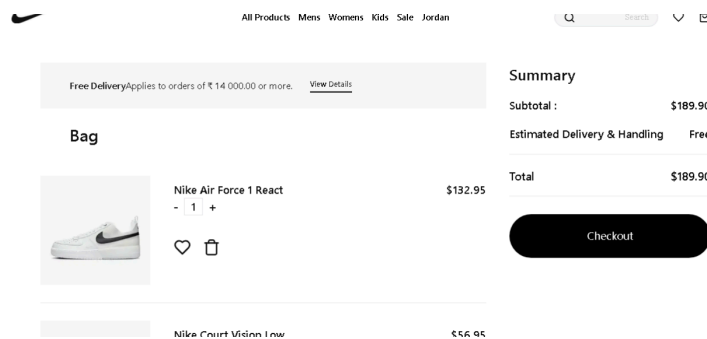
- **Product Details :**

Each product detail shows on a dynamic detail page.



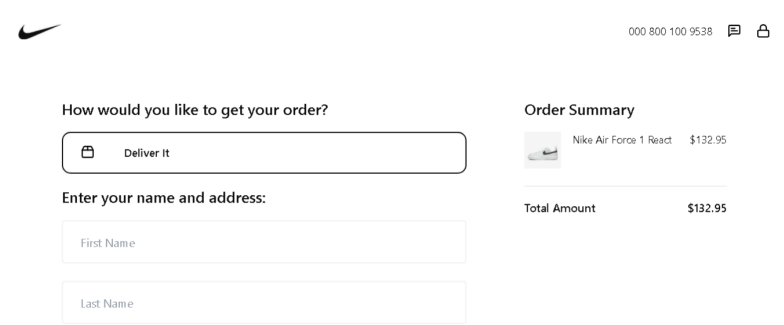
● Cart Operation :

Successfully showing products added to cart.



● Checkout Flow :

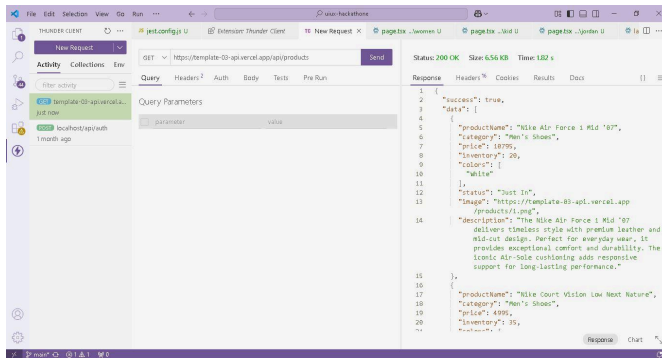
Products from the cart successfully come to checkout.



API Responses Validation :

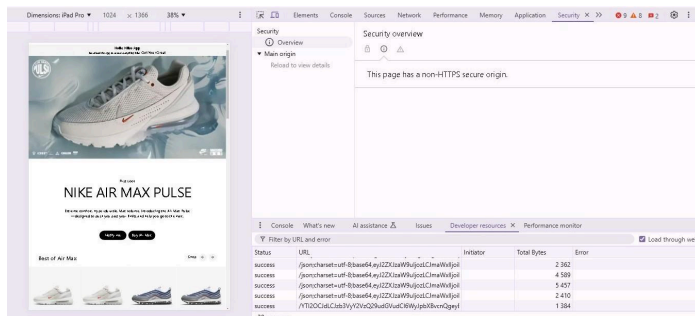
API response testing done by using thunder client shows data of products including all the details.

- Response status: 200 OK.
- All the fields were fetched successfully with correct data structure.



Security Testing:

Security testing done successfully as shown it page has non-https secure origin .



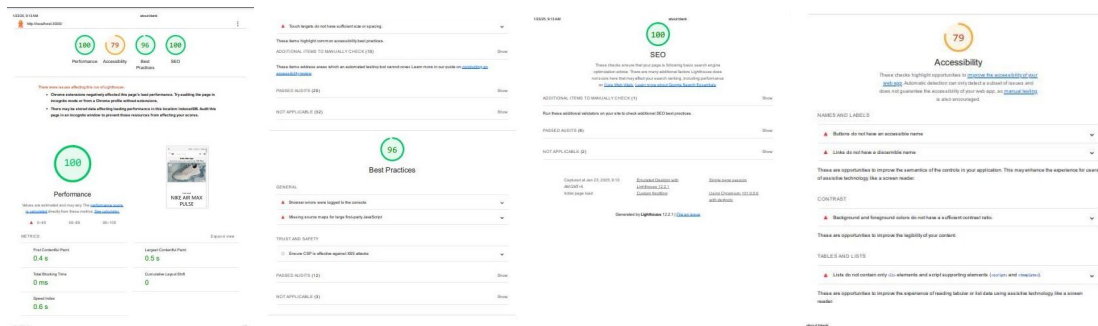
Testing Report (CSV Format):

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

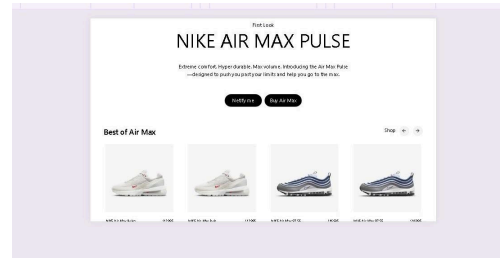
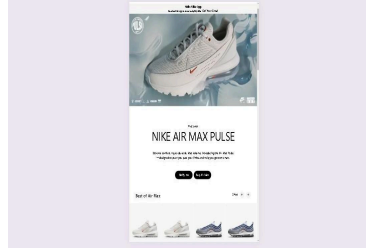
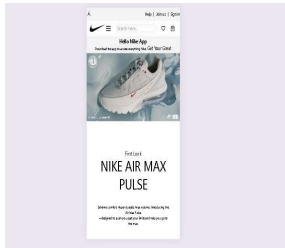
Performance Insights :

Lighthouse tool used to check website performance, report shows 96+ scores in Performance, SEO and Best Practices.



Responsiveness Testing :

Website is fully responsive for all the devices without distribution of UI.



Checklist for Day 5:

Functional Testing:



Error Handling:



Performance Optimization:



Cross-Browser and Device Testing:



Security Testing:



Documentation:



Final Review:



