TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

STEP 1: FUNCTIONAL TESTING

. 1.Test Core Features:

• Product listing

Test Code -ID	Test Case	steps	Expected Outcome	status
TC00-1	Display product list	Open the product listing page	All products appear with correct details	PASS
TC00-2	Pagination functionality	Navigate to the next page of products	Correct product load on the page	PASS
TC00-3	Server Logs	Getting Server Logs of Products from Sanity	Getting Amount Of Products from Sanity	PASS

• Cart Operations

Test Code -ID	Test Case	steps	Expected Outcome	status
TC00-4	product detail page load	Click on a shop from the listing page	products detail page opens with correct details	PASS
TC00-5	Showing Latest Products	Disabled CDN Status to false	Getting Latest Products	PASS
TC00-6	Navigation back to list	Use browser back button	Returns to the product listing page	PASS
TC00-7	Add/remove items cart	Click on the add or remove button to perform function	It will add or remove items from user's cart	PASS

STEP 2: ERROR HANDLING

- **Add Error Messages:**
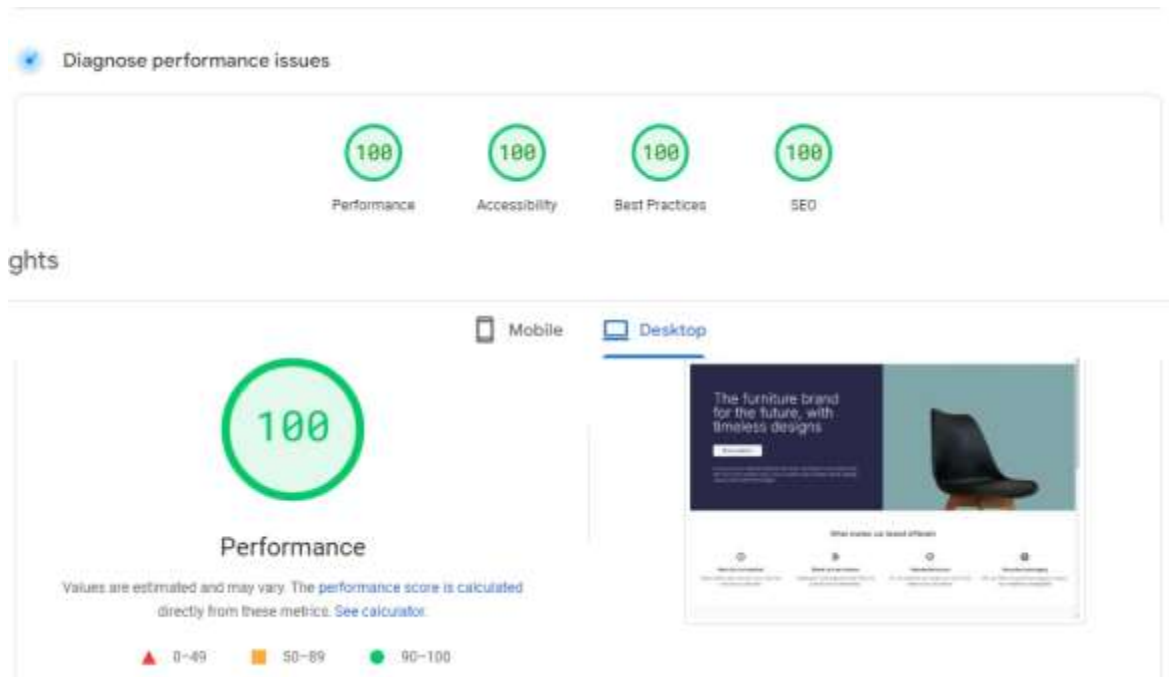
```
Use try {
    const products = await client.fetch(`
      *[_type == "product"] {
        _id,
        name,
        price,
        "image": image.asset->url,
        description
      }
    `)

    return NextResponse.json(products)
  } catch (error) {
    console.error('Error fetching products:', error)
```

FALLBACK UI:

STEP 3: PERFORMANCE OPTIMIZATION

- *Optimize Assets*
- *Analyze Performance*
- *Test Load Times*

STEP 4: CROSS-BROWSER AND DEVICE TESTING

1. *Browser Testing*
2. *Device Testing*

Test code -ID	Test Case	steps	Expected Outcome	status
Tc00-11	View on Google chrome	Open the chrome and see website	It shows responsive	PASS
Tc00-12	View on Microsoft Edge	Open the Microsoft Edge and see website	*It shows responsive*	PASS
Tc00-13	View on Mobile	Open the Mobile and see website	**It shows responsive**	PASS

Website is Responsive For All Devices

The furniture brand for the future, with timeless designs

Show products

A new era in eco-friendly furniture with Avion, the French luxury retail brand with nice fonts, tasteful colors, and a beautiful way to display things digitally using modern web technologies.

All products

Pakistani Chairs
£6000

Add to Cart

Suit
£600

Add to Cart

AC
£10000

Add to Cart

Royal Velvet Chair For Restaurant – Dining Collection
£3080

Add to Cart

About Avion

A new era in eco-friendly furniture with Avion, the French luxury retail brand with nice fonts, tasteful colors, and a beautiful way to display things digitally

Our Mission

When we started Avion, the idea was simple. Make high-quality furniture affordable and available for the mass market.

We believe that everyone deserves to have access to well-designed, durable furniture that doesn't break the bank. Our commitment to sustainability means we source eco-friendly materials and work with artisans who share our values.

Learn More

STEP 5: SECURITY TESTING

DESCRIPTION: *SECURE THE WEBSITE AGAINST VULNERABILITIES*

KEY ACTIONS:

- *Sanitize user inputs to prevent SQL injection and XSS attacks.*
- *Ensure API calls are made over HTTPS.*
- *Store sensitive information in environment variables.*
- *Conduct penetration testing to identify hidden vulnerabilities.*

TOOLS USED:

- *OWASP ZAP: For automated vulnerability scanning.*

- *Burp Suite: For penetration testing.*

- *Manual testing for additional verification of potential vulnerabilities.*

STEP 6: USER ACCEPTANCE TESTING (UAT)

DESCRIPTION: *SIMULATE REAL-WORLD USER INTERACTIONS TO IDENTIFY USABILITY ISSUES.*

SCENARIOS TESTED:

- *Browsing products.*
- *Adding and removing items from the cart.*
- *Completing the checkout process.*
- *Testing multi-step workflows to ensure an intuitive user experience.*

FEEDBACK COLLECTED:

- *Minor UI inconsistencies identified and resolved.*
- *Improved workflows for better user experience.*
- *Adjusted visual hierarchy to emphasize key actions like "Add to Cart."*

STEP 7: DOCUMENTATION UPDATES

DESCRIPTION: COMPILE FINDINGS AND RESOLUTIONS INTO A PROFESSIONAL REPORT. INCLUDES:

- *Test case descriptions and results.*
- *Performance optimization steps.*
- *Security measures implemented.*
- *Screenshots of issues and fixes.*
- *Additional insights into areas for future improvement.*