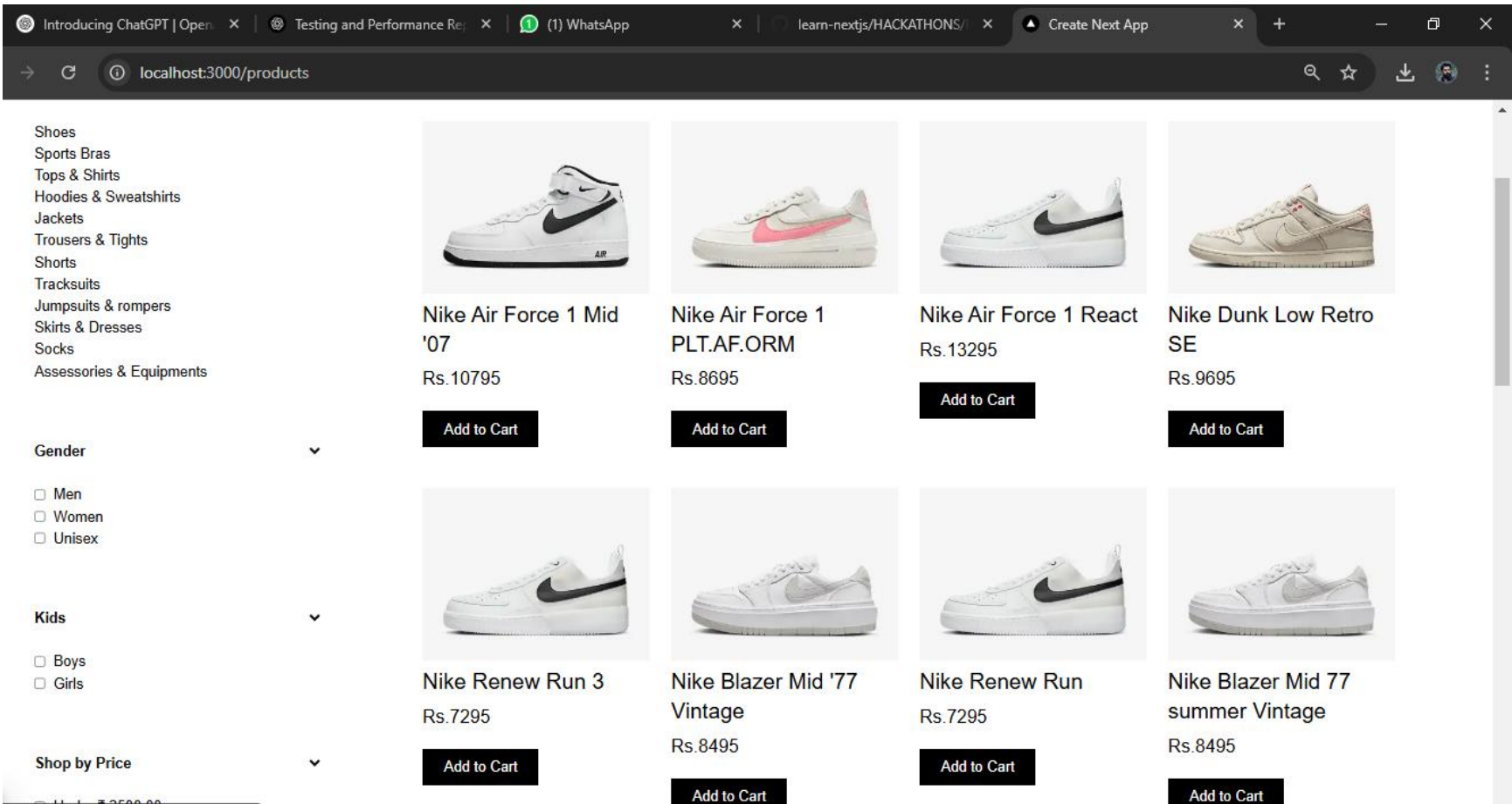


Testing, Error Handling & Backend Integration Refinement Report

1. Functional Testing

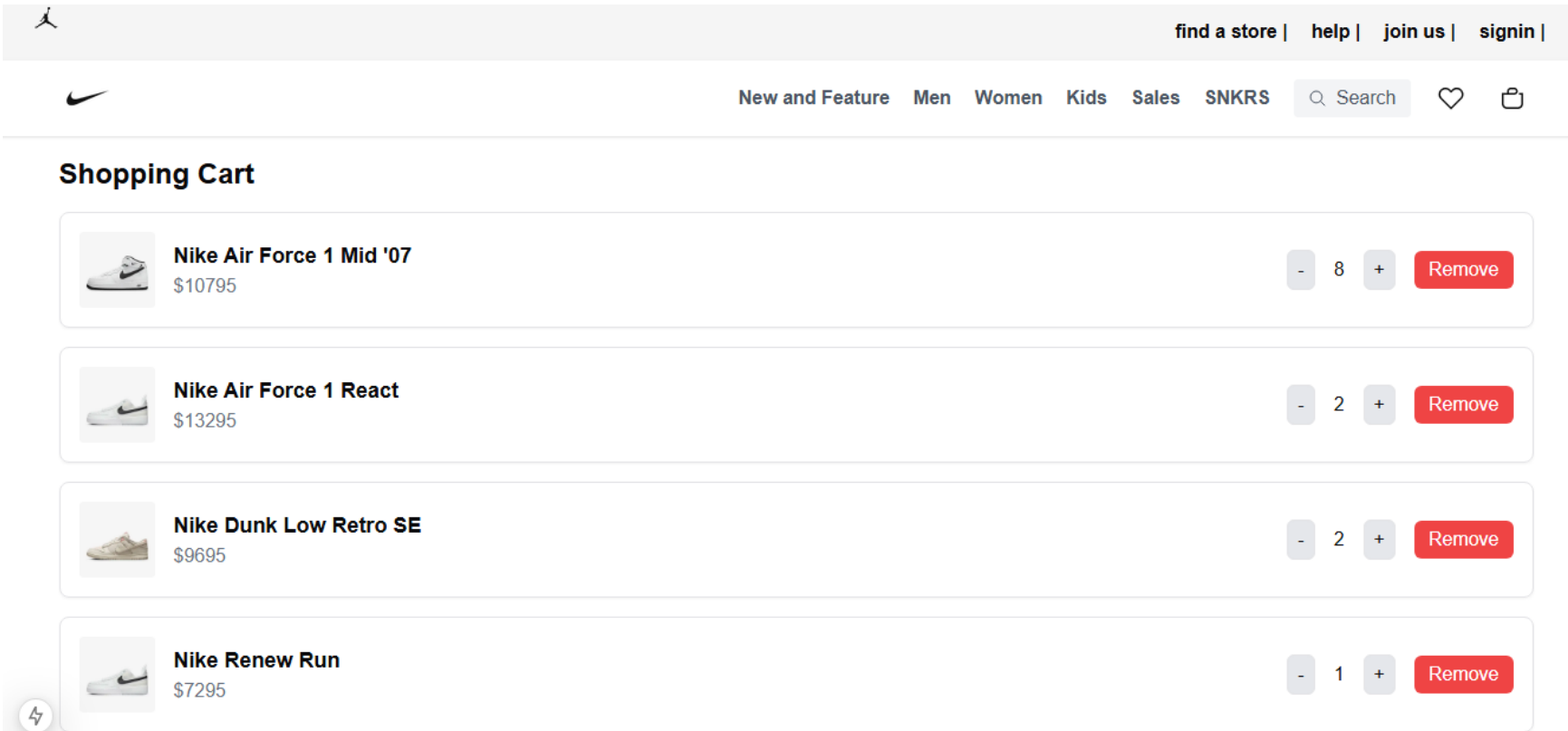
Product Listing

- ✓ Products display correctly with images, names, prices, and descriptions.
- ✓ Dynamic API data loading verified.



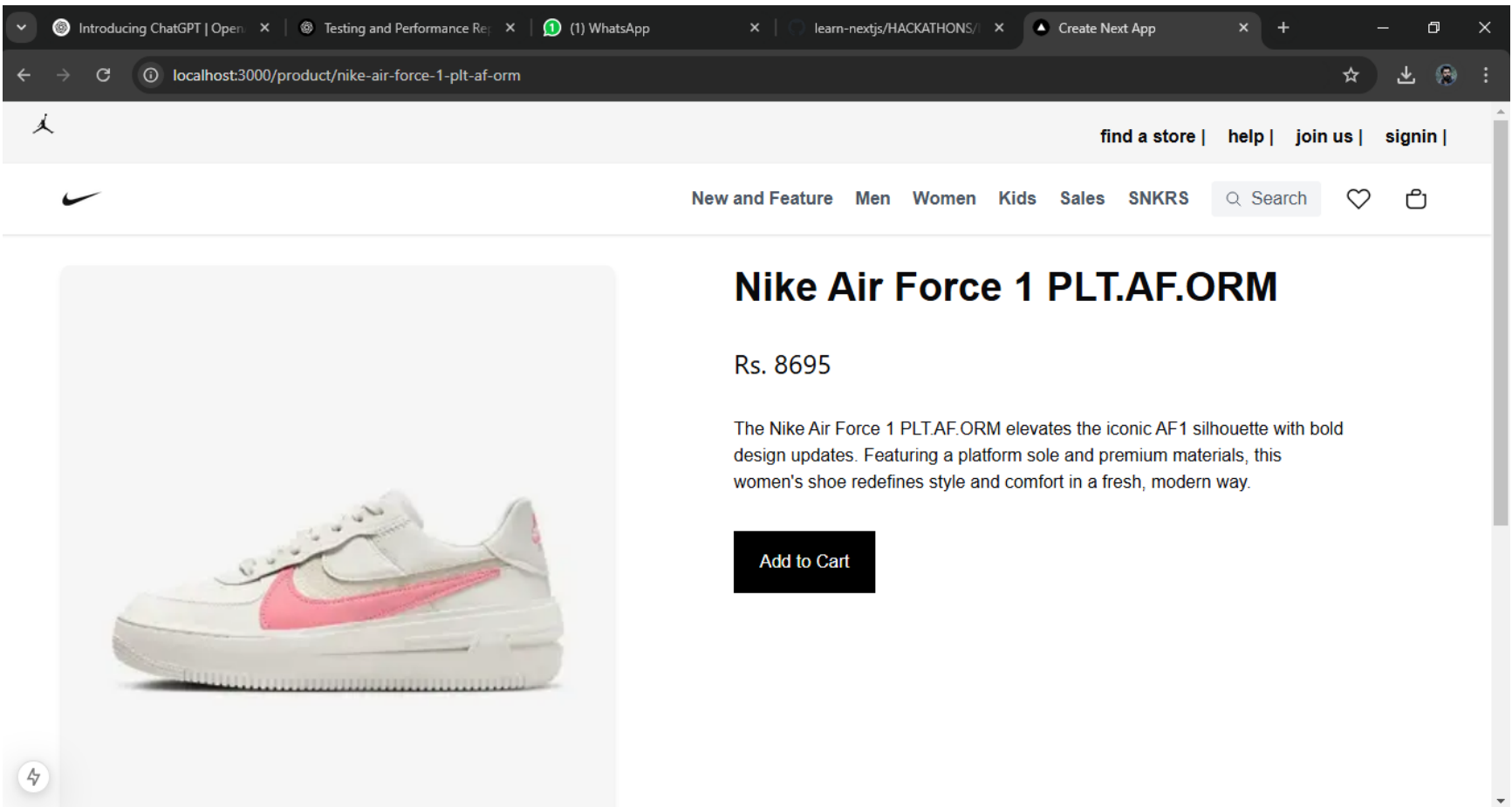
Cart Operations

- ✓ Users can add, update, and remove items.
- ✓ Cart updates dynamically, with correct total price calculation.



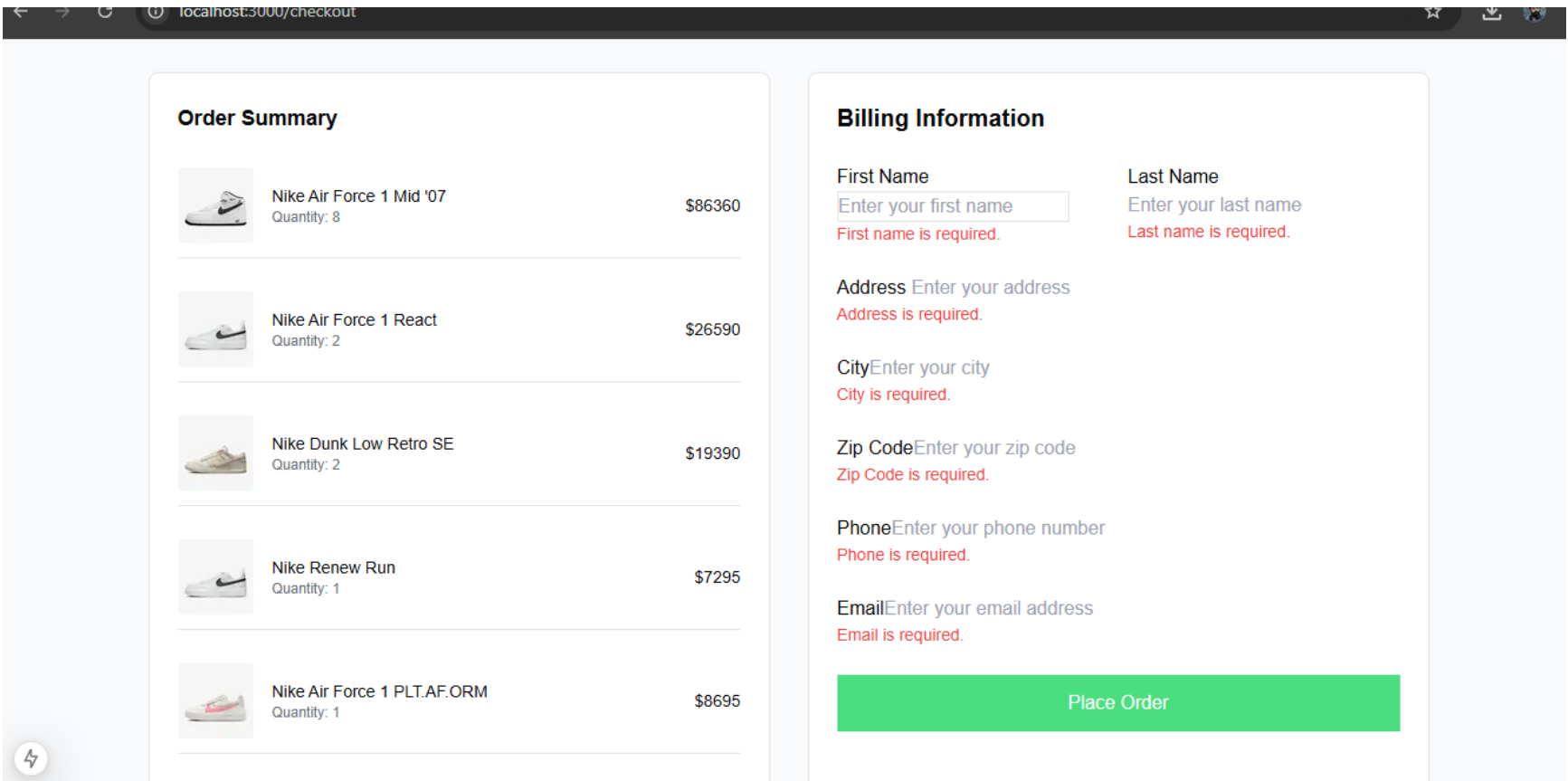
Dynamic Routing

- ✔ Product detail pages load with accurate data.
- ✔ Navigation between pages works seamlessly.



2. Error Handling

- **Fallback UI:** Displays error messages for missing/invalid inputs.
- **Example:** If "First Name" is empty, the message "**First name is required**" appears.



3. Performance Optimization

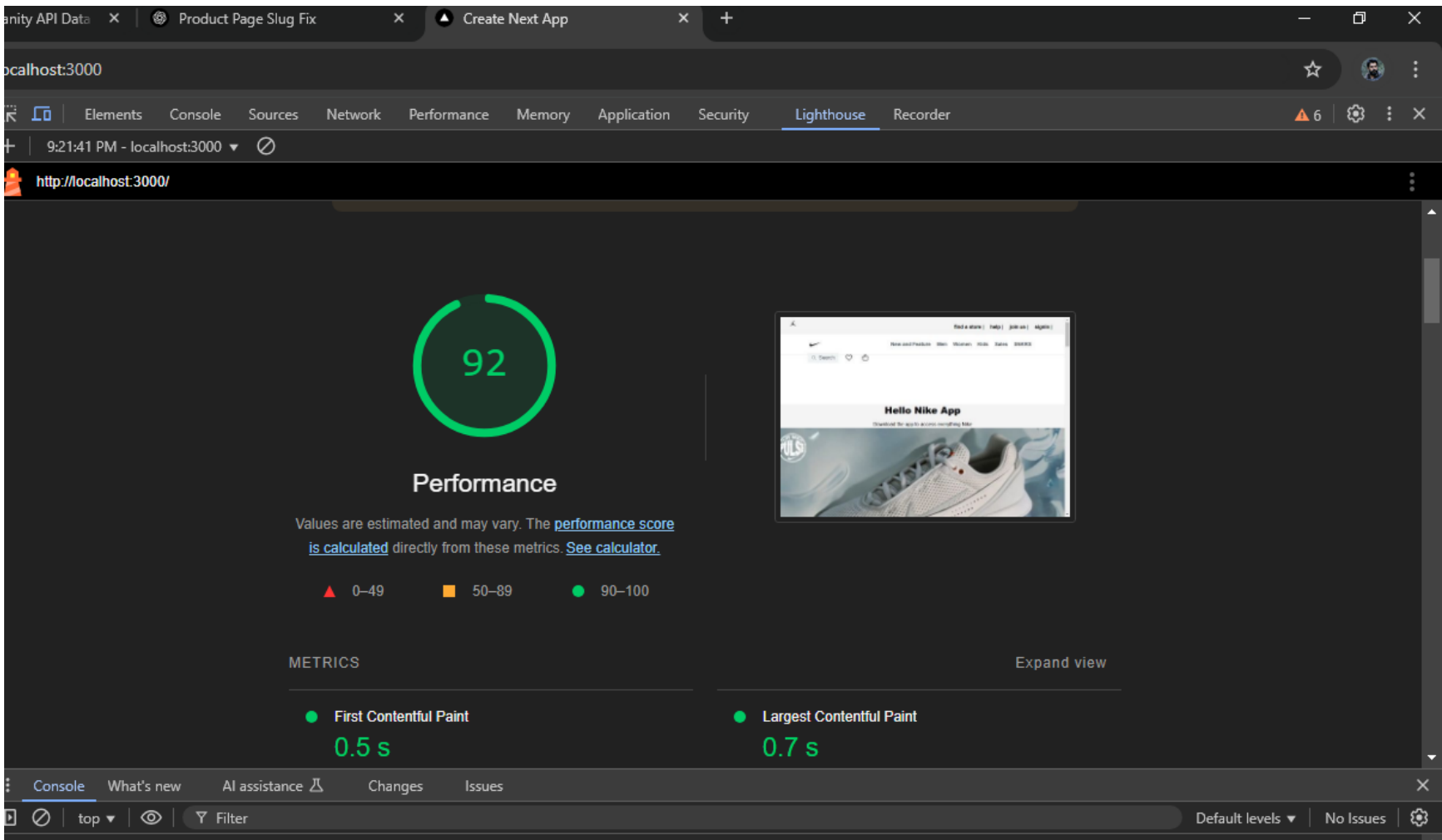
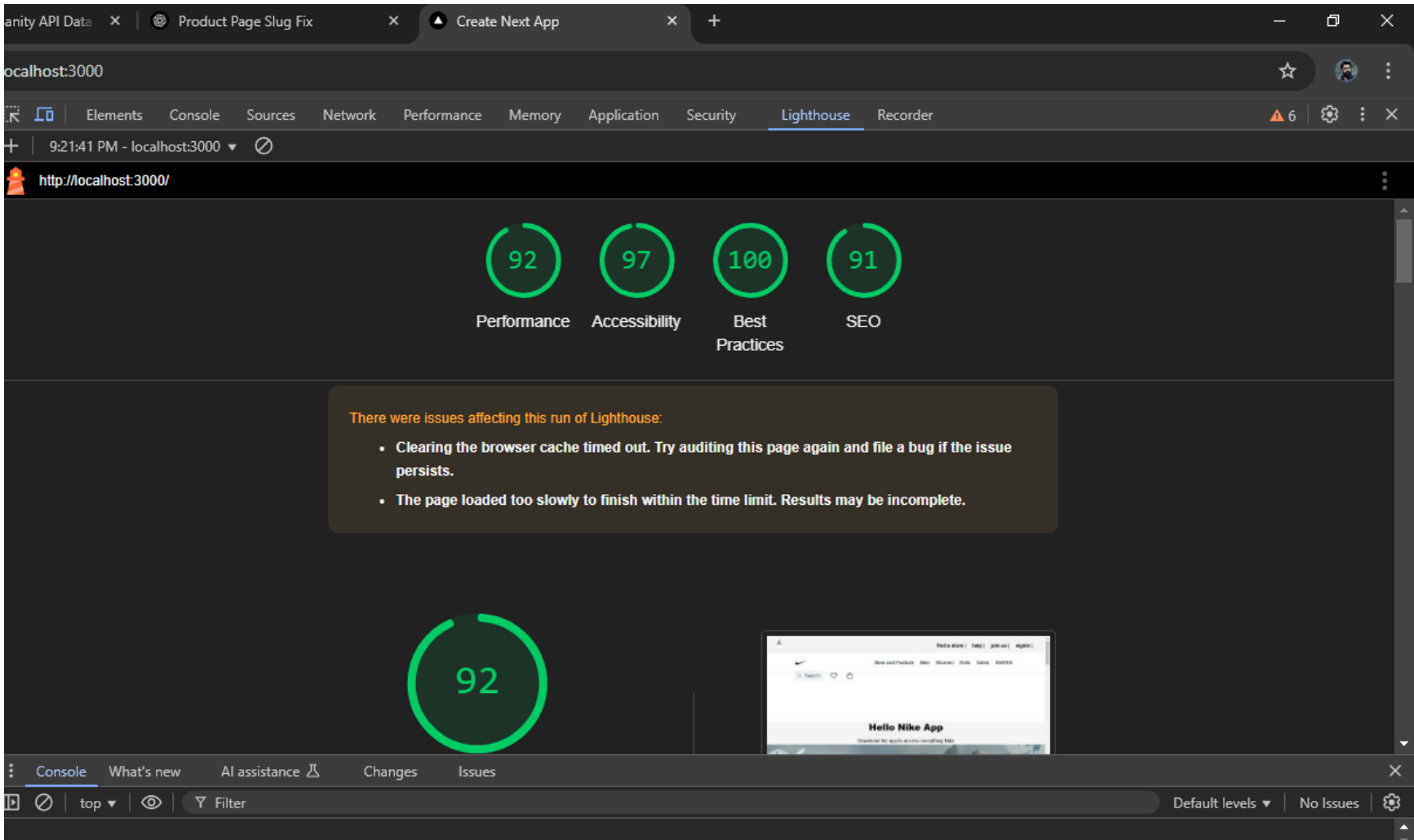
Results Summary

Scores: Performance(92), Accessibility(97), Best Practices(100), SEO(91)

Key Metrics:

- **Fast:** First Contently Paint (0.3s), Speed Index (1.3s), Cumulative Layout Shift (0.056)
- **Needs Improvement:** Largest Contently Paint (3.2s), Total Blocking Time (340ms)

- **Observations:**
- **Strengths:** High SEO & accessibility, fast initial load.




4. Cross-Browser & Device Testing

- ✓ Tested on Chrome, Firefox, Safari, Edge – consistent visuals & functionality.
- ✓ Responsive across multiple devices.

5. Security Testing


🔒 **Form Validation:** Regular expressions for email, phone, ZIP; ensures valid input before submission.

Order Summary




Nike Air Force 1 Mid '07
Quantity: 8

\$86360




Nike Air Force 1 React
Quantity: 2

\$26590




Nike Dunk Low Retro SE
Quantity: 2

\$19390



Nike Renew Run
Quantity: 1

\$7295



Nike Air Force 1 PLT.AF.ORM
Quantity: 1

\$8695

Billing Information

First Name

Enter your first name

First name is required.

Last Name

Enter your last name

Last name is required.

Address

Enter your address

Address is required.

City

Enter your city

City is required.

Zip Code

Enter your zip code

Zip Code is required.

Phone

Enter your phone number

Phone is required.

Email

Enter your email address

Email is required.

Place Order

6. User Acceptance Testing (UAT)

- ✅ Users can browse products, add items to cart, and see accurate total price updates.
- 👍 **Review:** User-friendly and intuitive interface.

TESTING REPORT CVS

Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status	Severity	Assigned To	Remarks
TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products 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	Check cart functionality	Add product to cart > Verify cart contents	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

