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Documentation for Functional Testing Implementation

Testing API

Conduct functional testing to ensure core features work correctly, providing a seamless user experience. Use tools like Postman, Thunder Client, React Testing Library, and Cypress for validation.
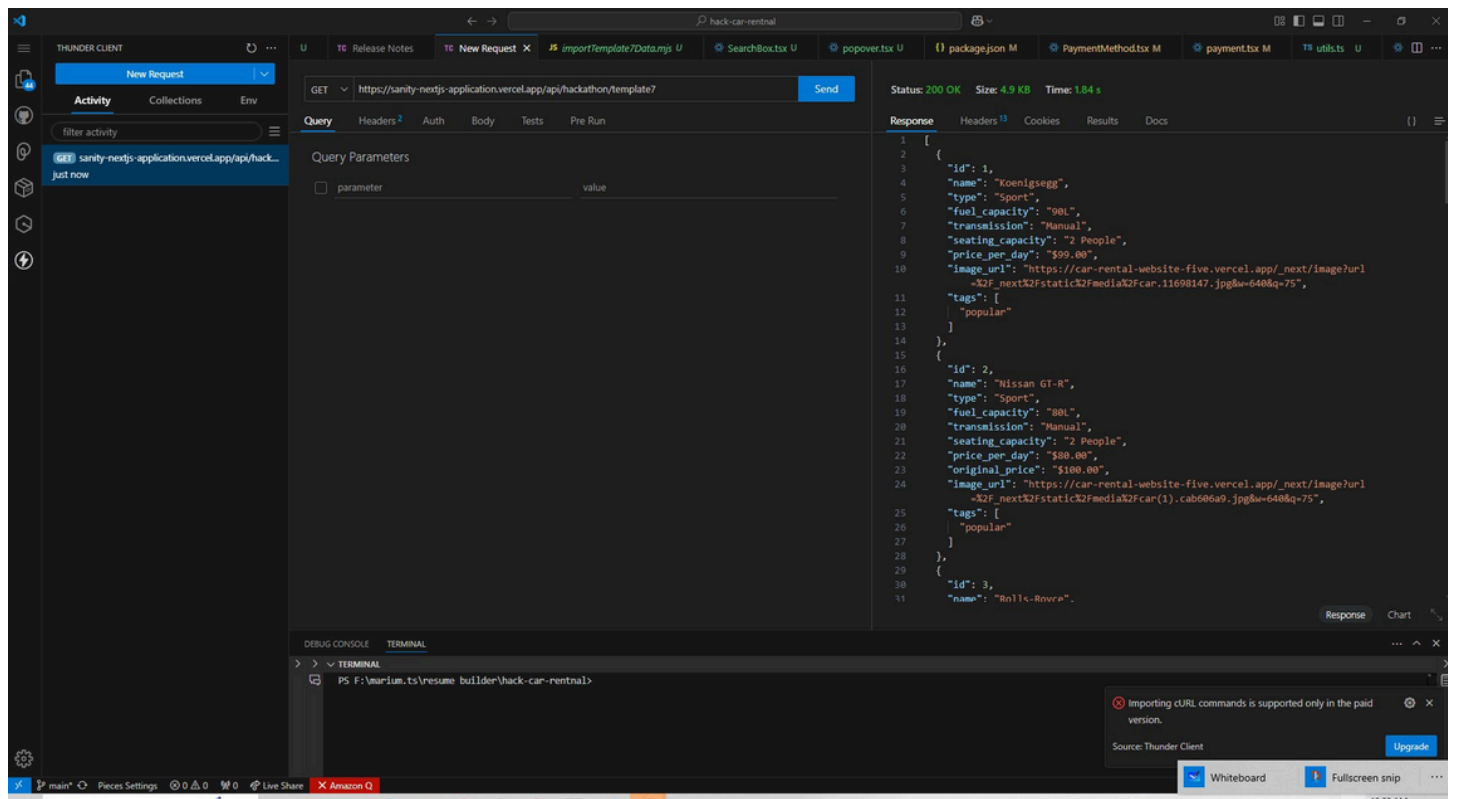
Steps for Implementation

Functional Testing

2. Testing Tools:

- **Thunder Client**: Lightweight API testing directly in VS Code.

Additional Notes

- API testing completed using Thunder Client.
- Screenshots will be shared for reference.

Performance Report

URL: [Car Details Page](Car%20Details%20Page)
 Captured on: January 22, 2025, 3:27 AM PST
 Device: Emulated Desktop using Lighthouse 12.2.3
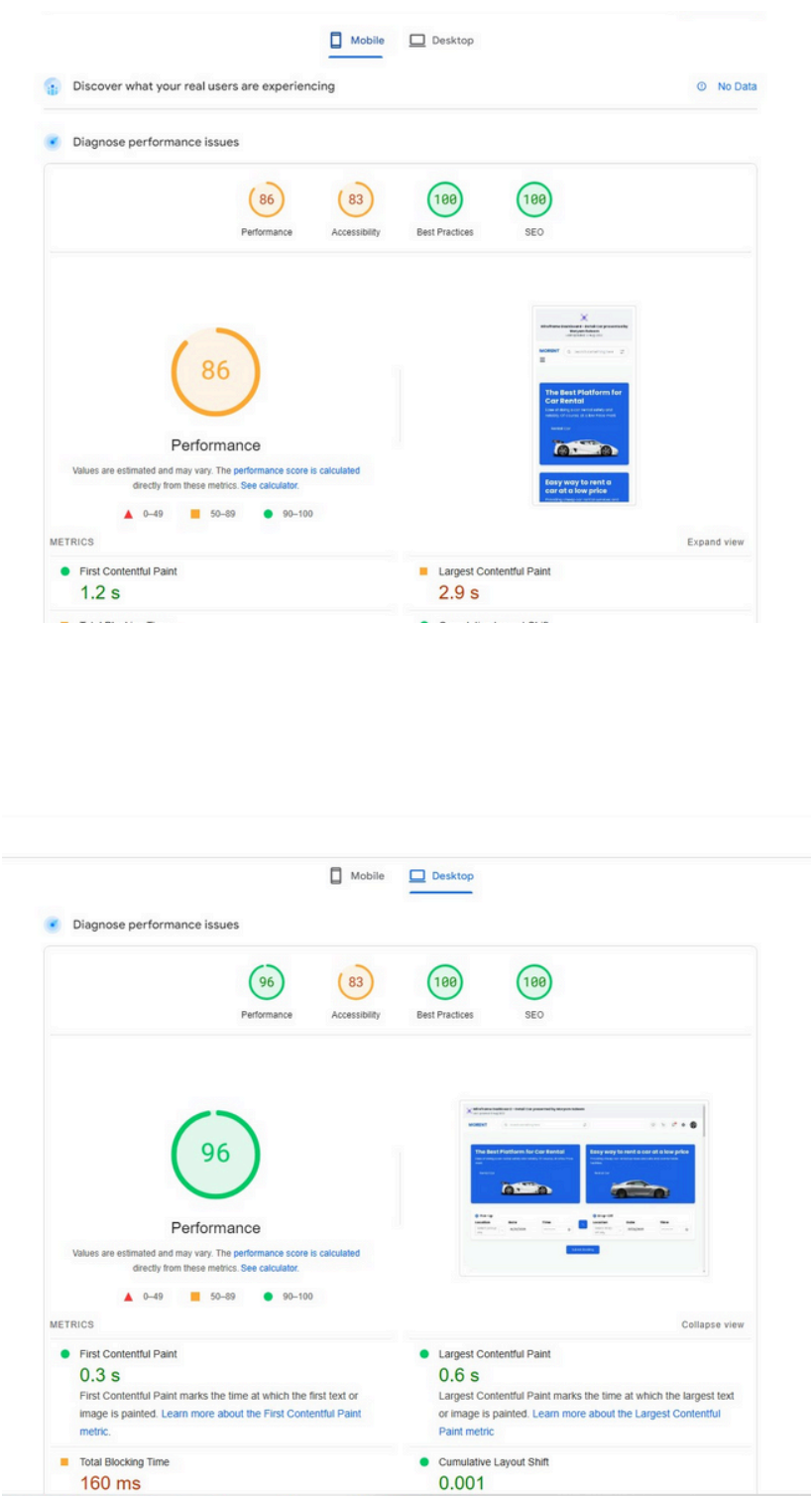 **Page Type:** Single page session, initial page load

Key Metrics:

- **Performance:** 97 (Excellent)
- **Accessibility:** 92
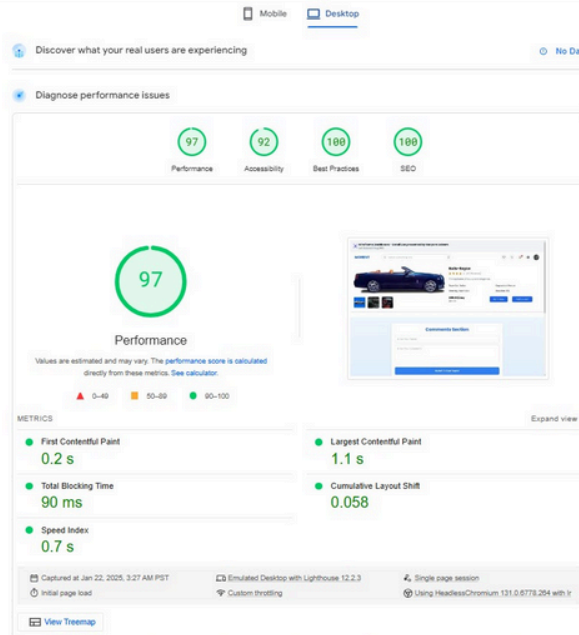- **Best Practices:** 100 (Excellent)
- **SEO:** 100 (Excellent)

Load Metrics:

- **First Contentful Paint (FCP):** 0.2 seconds
- **Largest Contentful Paint (LCP):** 1.1 seconds
- **Total Blocking Time (TBT):** 90 ms
- **Cumulative Layout Shift (CLS):** 0.058
- **Speed Index (SI):** 0.7 seconds

Conclusion:

The performance of the page is strong with excellent scores for SEO, Best Practices, and Performance. However, there are some opportunities for improvement, particularly in reducing unused JavaScript, optimizing the loading of resources, and addressing layout shifts. Implementing these improvements can help achieve an even better user experience and faster load times.

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https://pagespeed.web.dev/analysis/https-hack-car-rentnal-75ag-vercel-app/vxpi5djzvx?form_factor=desktop&category=performance&category=accessibility&category=best-practices&category=seo&hl=en-US&utm_source=lh-chrome-ext

By focusing on these areas, you can enhance the quality, performance, and security of your e-commerce marketplace, leading to a better user experience and increased customer satisfaction.

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks	
2	TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	high	-	successfull
3	TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	high	-	Handled gracefully
4	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
5	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