



DAY 5- TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

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00160049
Sunday 9am to 12pm



Testing Report Sample:

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Remarks
TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed✓	High	No issues found
TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	NO ERROR ☒	Passed✓	Height	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✓	High	Test successful

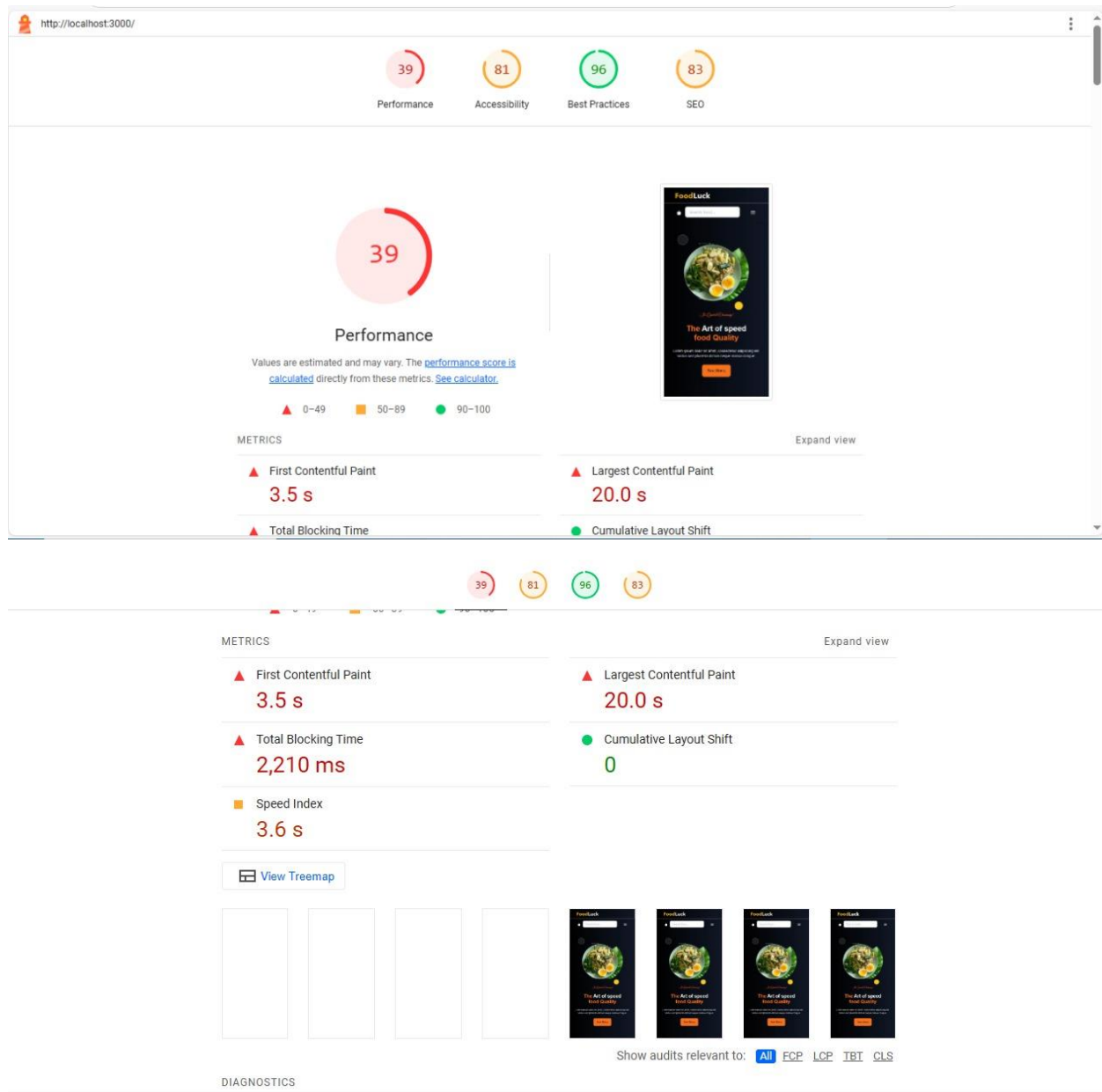
Website Performance Audit Report

Introduction

Title: Website Performance Audit Report

Date: January 20, 2025

Purpose: Provide insights into website performance, accessibility, best practices, and recommendations for improvement based on the Lighthouse evaluation.



1. Performance Metrics

Key Metrics:

- **First Contentful Paint (FCP):** 3.5 seconds
Score: 0.35 (Improvement needed)
Description: Measures how long it takes for the first text or image to be painted.

- **Largest Contentful Paint (LCP):** 20 seconds
Score: 0.0 (Critical improvement needed)
Description: Indicates how long it takes to render the largest visible content.
 - **Speed Index:** 3.6 seconds
Score: 0.86 (Good but can be optimized)
Description: Shows how quickly the contents of a page are visibly populated.
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2. Accessibility and Best Practices

Key Findings:

- **HTTPS:**
 - The website uses HTTPS. (Score: 1)
 - Ensures secure communication between the website and users.
 - **Mobile Optimization:**
 - Proper viewport meta tag detected.
 - This optimizes the site for mobile screen sizes and prevents input delays.
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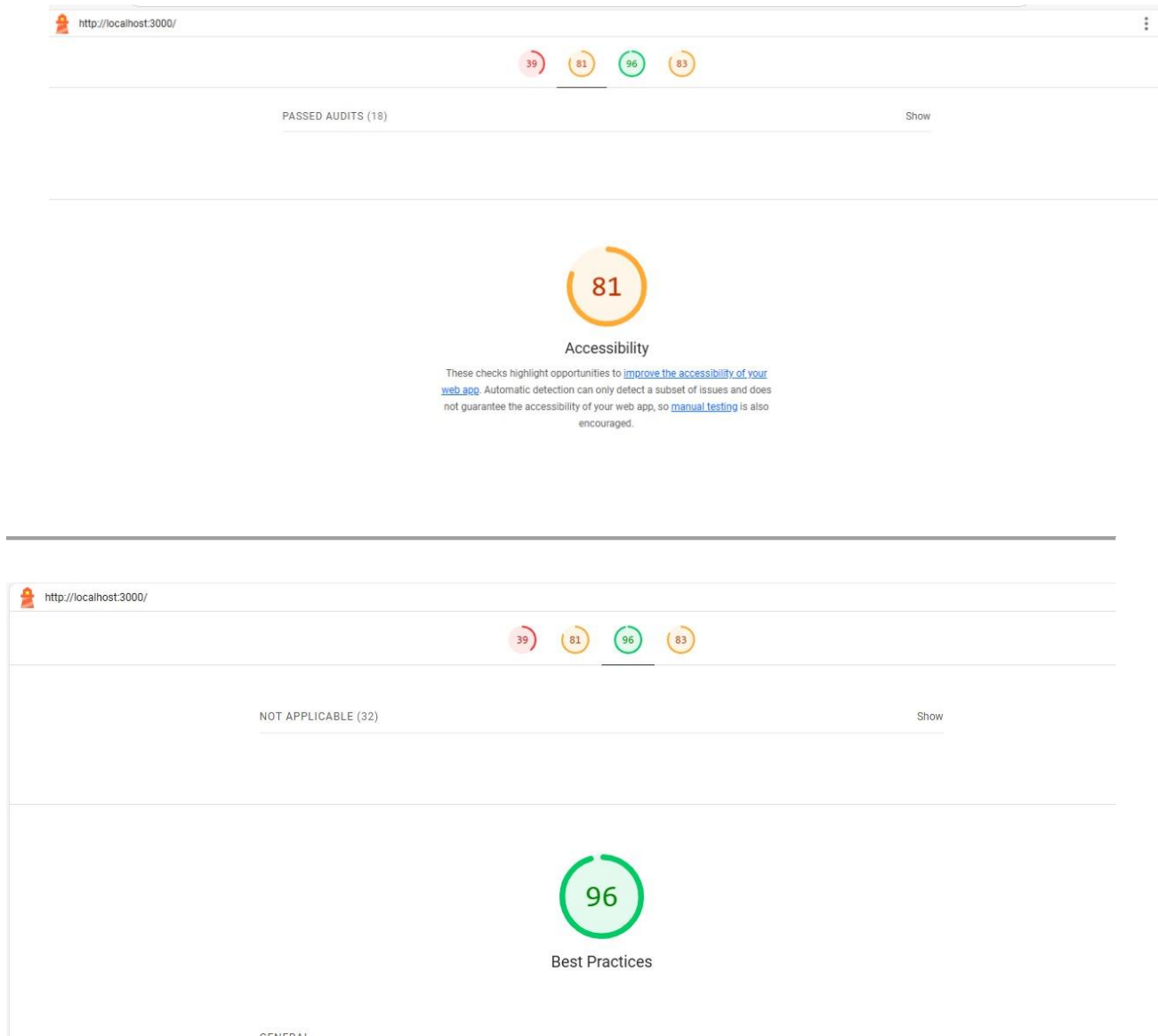
3. Recommendations

Performance Improvements:

1. **Optimize Largest Contentful Paint (LCP):**
 - Reduce the size of large images and serve them in modern formats (e.g., WebP).
 - Eliminate or defer render-blocking resources such as JavaScript and CSS.
2. **Enhance First Contentful Paint (FCP):**
 - Use a Content Delivery Network (CDN) for faster content delivery.
 - Preload key resources to speed up critical path rendering.
3. **Improve Speed Index:**
 - Minimize unused CSS and JavaScript.
 - Prioritize loading of above-the-fold content.

Accessibility & Best Practices:

- Ensure all resources are served securely (HTTPS) without mixed content issues.
- Continue optimizing for mobile users by testing touch responsiveness and layout adjustments.



4. SEO Analysis

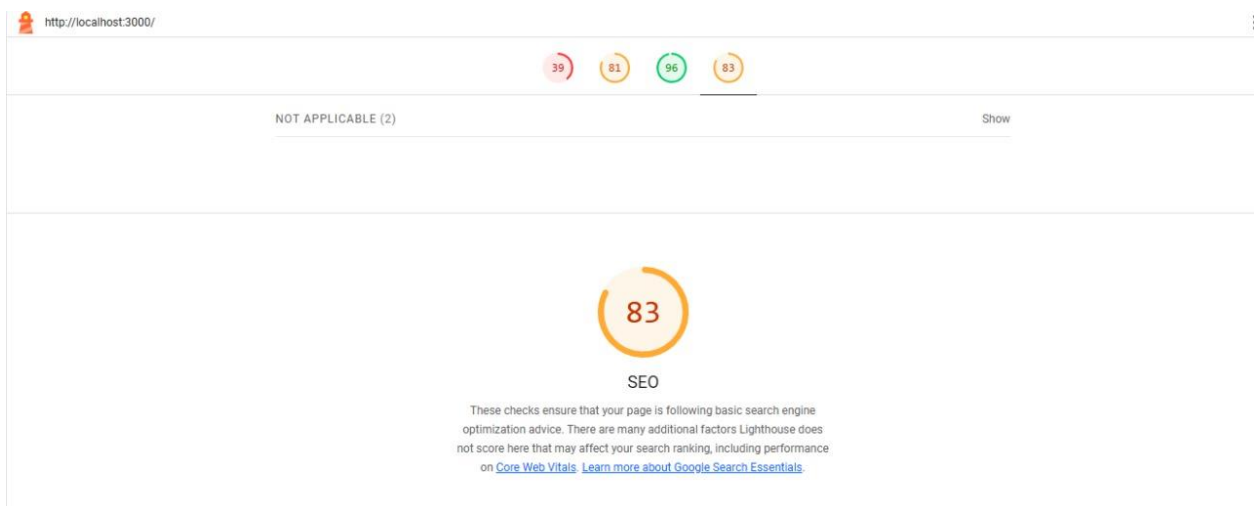
Key Findings:

- **Meta Descriptions:**
 - Ensure all pages have unique and concise meta descriptions to improve click-through rates.
- **Headings Structure:**
 - Optimize heading tags (H1, H2) to ensure proper hierarchy and relevance.
- **Alt Attributes:**
 - Add descriptive alt attributes for all images to enhance accessibility and SEO ranking.

- **Page Titles:**
 - Ensure page titles are unique and include primary keywords to improve search visibility.
- **Canonical Tags:**
 - Use canonical tags to avoid duplicate content issues and maintain SEO equity.

Recommendations:

1. Conduct regular keyword research to ensure the content aligns with user search intent.
2. Improve site loading speed to enhance user experience and reduce bounce rates.
3. Utilize schema markup to improve search engine understanding and display rich results.
4. Submit an updated XML sitemap to search engines to ensure proper indexing.



5. Responsive Design Analysis

Key Findings:

- **Mobile-Friendly Layout:**
 - The site adjusts well to various screen sizes, ensuring usability on smartphones, tablets, and desktops.
- **Touch Target Sizes:**
 - All buttons and interactive elements are appropriately sized for easy tapping.
- **Viewport Configuration:**
 - Proper configuration detected, ensuring the site scales correctly on all devices.

FoodLuck

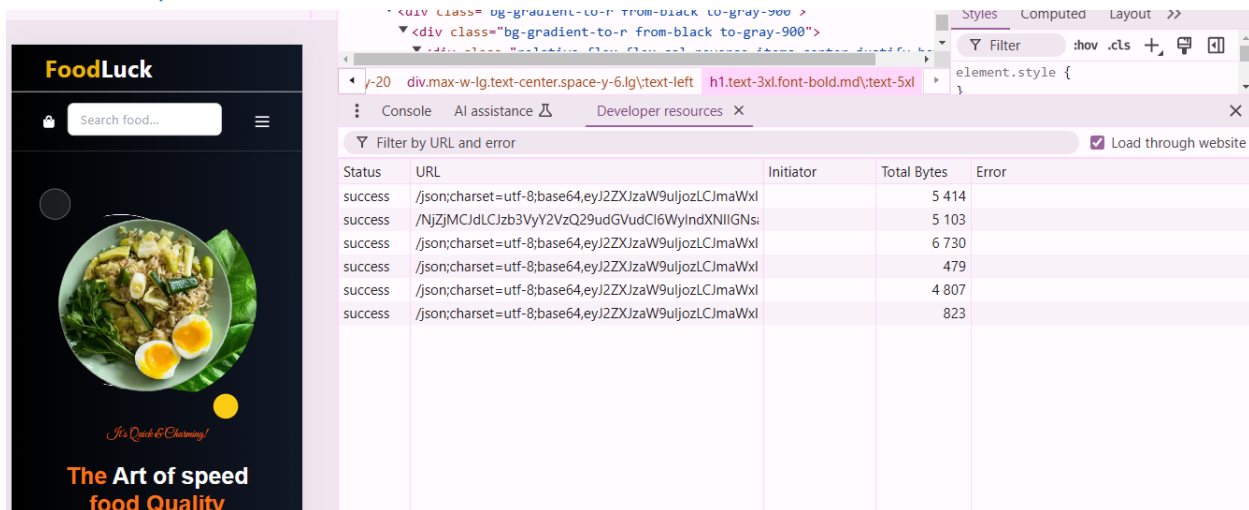


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5. Developer Resource:



7. Conclusion

Summary:

- The website exhibits strengths in HTTPS usage and mobile optimization.
- Critical areas of focus include improving Largest Contentful Paint and First Contentful Paint to enhance user experience.
- Addressing SEO elements such as meta descriptions and alt attributes can further boost visibility and performance.
- Responsive design efforts ensure usability across devices but require ongoing testing and refinement.
- Developer tools and resources offer actionable insights for continuous improvement.

Next Steps:

- Implement recommended optimizations for key metrics.
- Conduct a follow-up Lighthouse audit post-implementation to track progress.
- Evaluate SEO performance metrics to identify further growth opportunities.
- Regularly test responsive design to maintain a consistent user experience.
- Utilize developer resources to streamline optimization processes.

Prepared by: Qirat Saeed

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