

# Performance Report for Marketplace Builder Hackathon Project

## Build Logs Summary:

- Build Time: 59 seconds
- Deployment: Completed successfully with a build cache size of 178.58 MB.
- Optimizations:
  - Static Pages Generated: 10 pages were prerendered as static content, with dynamic pages rendered on demand.
  - First Load JavaScript: The routes in the app range between 88.6 KB and 140 KB of JavaScript for initial load.
  - Static Caching: The build cache was restored, and the deployment completed efficiently with minimal time spent on uploading the cache (1.945 seconds).

## Lighthouse Testing Report Summary:

- Performance: 100
  - First Contentful Paint (FCP): 0.4 seconds
  - Largest Contentful Paint (LCP): 0.5 seconds
  - Total Blocking Time (TBT): 50 ms
  - Cumulative Layout Shift (CLS): 0.029
  - Speed Index (SI): 0.7 seconds
- Diagnostics:
  - Minify JavaScript: Potential savings of 25 KB.
  - Properly size images: Potential savings of 58 KB.
  - Remove duplicate modules in JavaScript bundles: Potential savings of 11 KB.
  - Reduce unused JavaScript: Potential savings of 95 KB.
  - Avoid large layout shifts: 1 layout shift found.
  - Avoid chaining critical requests: 1 chain found.

- JavaScript execution time: 0.4 seconds.
  
- Accessibility: 90
  - Issues:
    - Contrast ratio: Background and foreground colors do not have sufficient contrast.
    - Missing <title> element in the document.
    - Heading elements are not in a sequentially-descending order.
    - Additional accessibility checks are encouraged.
  
- Best Practices: 100
  - Passed Audits: All 14 trust and safety checks passed, ensuring that CSP is effective against XSS attacks.
  
- SEO: 36
  - Issues:
    - Page is blocked from indexing.
    - Missing <title> element and meta description.
    - Links without descriptive text.
  - Recommendations:
    - Ensure that the page is not blocked from indexing and add proper <title> and meta description tags.
    - Use descriptive text for links to improve SEO.

#### Recommendations for Optimization:

1. Image Optimization: Use <Image /> from next/image for automatic image optimization and potential savings of 58 KB in bandwidth.
2. JavaScript Optimization:

- Minify JavaScript to save 25 KB and reduce unused JavaScript (savings of 95 KB).
  - Remove duplicate modules in JavaScript bundles to optimize load time.
3. Accessibility: Fix contrast ratio issues and ensure proper heading order to enhance accessibility.
4. SEO:
- Resolve the blocking of the page from indexing to improve discoverability.
  - Add <title> and meta description for better SEO ranking.

This report reflects the performance and areas for improvement to enhance user experience and search engine optimization. If you'd like more details or assistance on any of the points, feel free to ask!