

Asia parveen: 00441760

Deployment Strategy Plan for Next.js eCommerce Website

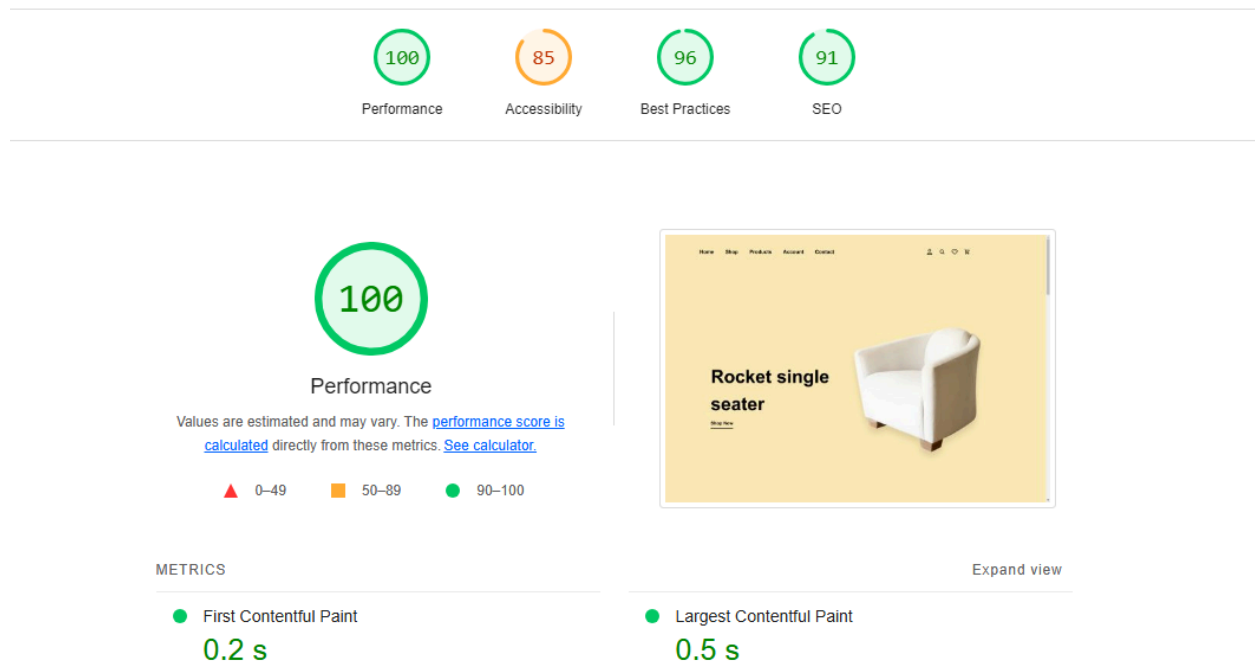
And Test Report:

Lighthouse Performance Report for E-commerce Website

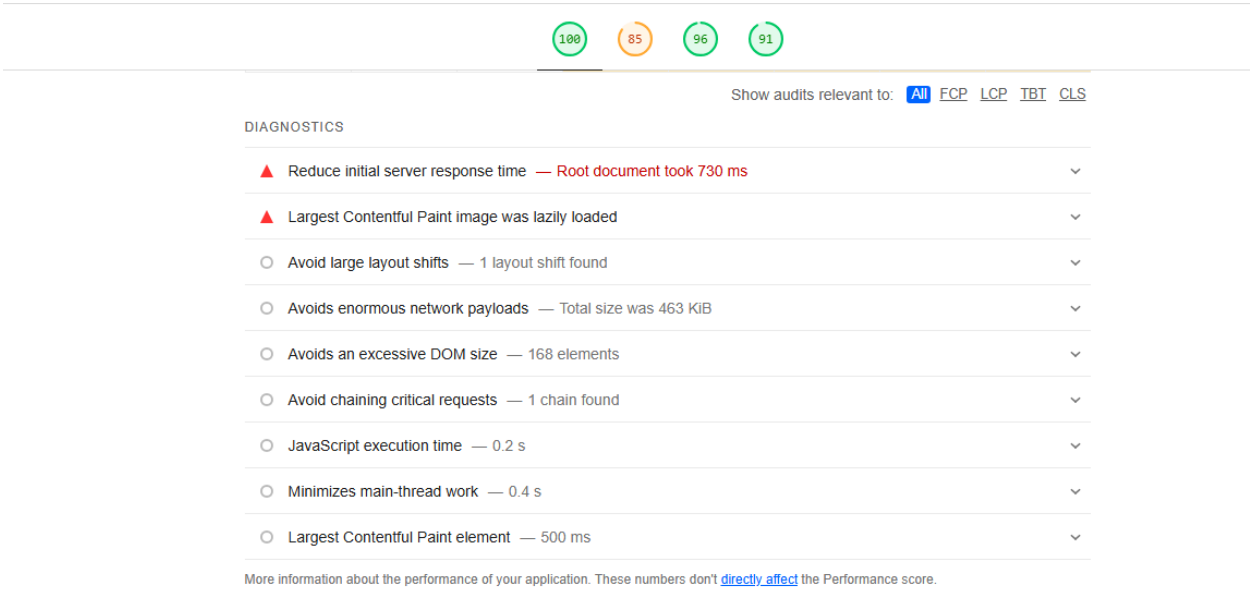
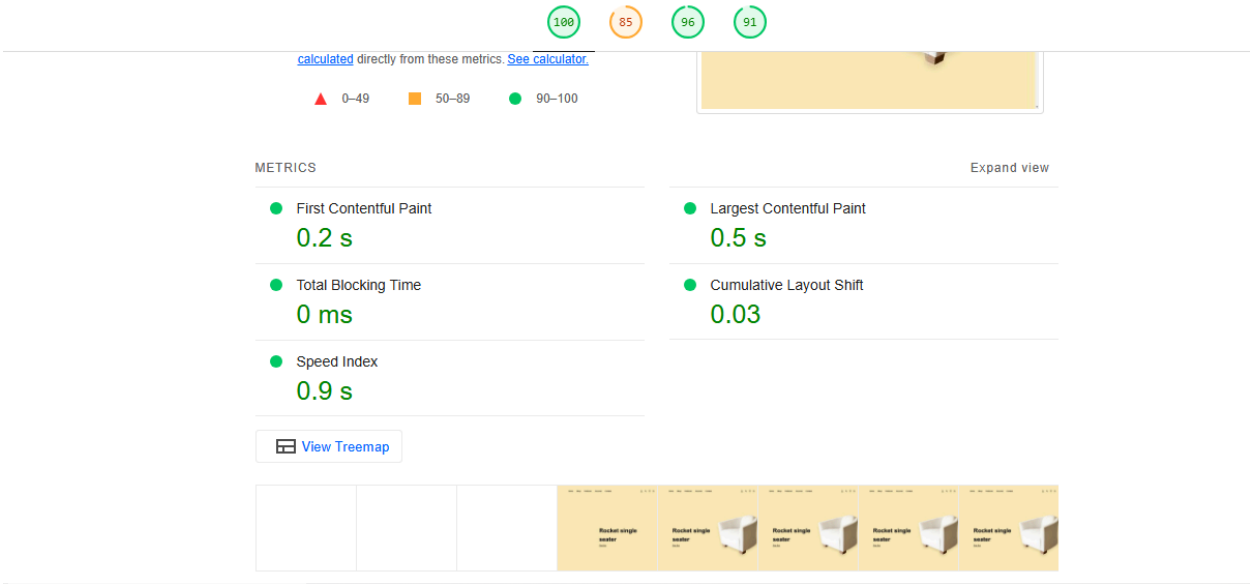
Website Overview:

- Framework: Next.js
- Content Management System (CMS): Sanity CMS
- Performance Score: 100%
- Best Practice: 100%
- Accessibility: 85%
- SEO Score: 91%

Performance Insights:



completeTesting Report Details of my website:





Best Practices

GENERAL

▲ Browser errors were logged to the console



TRUST AND SAFETY

○ Ensure CSP is effective against XSS attacks



SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more about Google Search Essentials](#).

CONTENT BEST PRACTICES

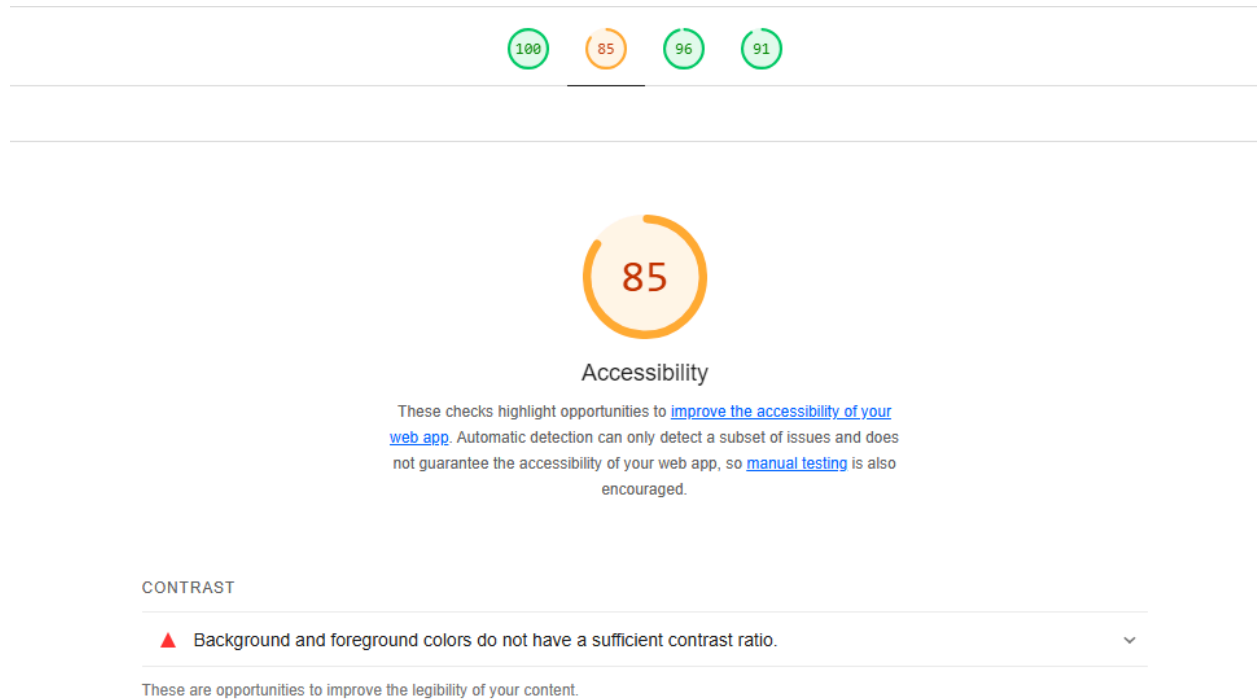
▲ Links do not have descriptive text — 3 links found



Format your HTML in a way that enables crawlers to better understand your app's content.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Show



1. Setting Up the Deployment Process

- **Version Control with GitHub:**
- - Ensure your project is fully version-controlled using GitHub.
 - Create a repository for the project and push your codebase to GitHub.
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 - Use branches (e.g., **main**, master, **development**, or feature branches) to manage changes effectively.
- **Integrating with Vercel:**
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- Connect your GitHub repository to Vercel.
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- Enable automatic deployment, so any changes pushed to the **main** branch trigger a new deployment.

Vercel Features and Benefits

Automatic Builds

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- Vercel automatically detects your Next.js configuration and builds the website without manual setup.
- Built-in optimizations for Next.js, such as server-side rendering (SSR) and static site generation (SSG).
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Custom Domains:

- Easily link custom domains to your eCommerce site.
- Vercel provides free SSL certificates for secure browsing.
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Serverless Functions:

- Deploy API routes and serverless functions directly using Vercel.
- Great for handling eCommerce-specific functionalities like payment processing or user authentication.

Performance Insights:

- Vercel provides analytics on website performance, including load time and Core Web Vitals.

Global CDN:

- Content is automatically distributed via a global Content Delivery Network (CDN) for fast load times worldwide.

- **Environmental Variable Configuration**

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- Environment variables are used to securely store sensitive information such as API keys, database URLs, and other configurations that should not be exposed in your codebase. Vercel provides a secure way to manage and use these variables in your Next.js application.

| | |
|-----------------------|---|
| General | |
| Domains | |
| Environment Variables | <div> <div><></div> <div>NEXT_PUBLIC_BASE_URL</div> <div>⦿</div> <div>.....</div> <div>Added 2h ago</div> <div></div> <div>...</div> </div> |
| Git | <div> <div><></div> <div>SHIPENGINE_THIRD_COURIER</div> <div>⦿</div> <div>.....</div> <div>Added 7h ago</div> <div></div> <div>...</div> </div> |
| Integrations | <div> <div><></div> <div>SHIPENGINE_SECOND_COURIER</div> <div>⦿</div> <div>.....</div> <div>Added 7h ago</div> <div></div> <div>...</div> </div> |
| Deployment Protection | <div> <div><></div> <div>SHIPENGINE_FIRST_COURIER</div> <div>⦿</div> <div>.....</div> <div>Added 7h ago</div> <div></div> <div>...</div> </div> |
| Functions | <div> <div><></div> <div>SHIPENGINE_API_KEY</div> <div>⦿</div> <div>.....</div> <div>Added 7h ago</div> <div></div> <div>...</div> </div> |
| Data Cache | <div> <div><></div> <div>SANITY_API_TOKEN</div> <div>⦿</div> <div>.....</div> <div>Added 7h ago</div> <div></div> <div>...</div> </div> |
| Cron Jobs | <div> <div><></div> <div>NEXT_PUBLIC_SANITY_DATASET</div> <div>⦿</div> <div>.....</div> <div>Added 7h ago</div> <div></div> <div>...</div> </div> |
| Log Drains | |
| Security | |
| Advanced | |

Setting Up a Staging Environment on Vercel

A staging environment is a replica of your production environment used for testing new features, bug fixes, and updates before deploying them live. Here's how to set up a staging environment on Vercel:

CheckList for Day 6:

Deployment Preparation: Done

Staging Environment: Done

Documentation: Done

Form Submission: Done

Final Review: Done

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○ Conclusion:

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- **On Day 6 of the hackathon, the focus was on deployment and ensuring the application was production-ready. The deployment process involved setting up environment variables to securely manage sensitive information such as API keys and database URLs. By leveraging Vercel's capabilities, the application was deployed efficiently, allowing us to benefit from features like automatic builds, global CDN, and preview deployments.**
- **Post-deployment, we thoroughly checked the website's efficiency, including performance, responsiveness, and functionality, to ensure a smooth user experience. The task emphasized the importance of a well-configured deployment process and proper environment management, which are crucial for delivering a robust and secure web application**

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