

DEPLOYMENT READINESS AND STAGING OVERVIEW

Introduction

Day 6 of our food tuck platform project focused on creating a robust staging environment to replicate real-world conditions. This process was critical for ensuring an error-free and seamless user experience. By following deployment best practices and conducting rigorous testing, we successfully prepared the platform for live operations.

Objectives

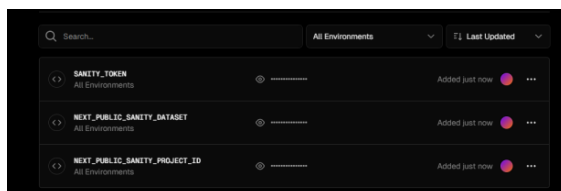
1. Establish a fully functional staging environment tailored to the food tuck ordering platform.
2. Ensure secure deployment configurations, safeguarding sensitive data.
3. Conduct comprehensive testing to validate all functionalities, performance, and security aspects.
4. Document and organize the deployment process for streamlined management and future references.

Methodology

Hosting Platform Setup

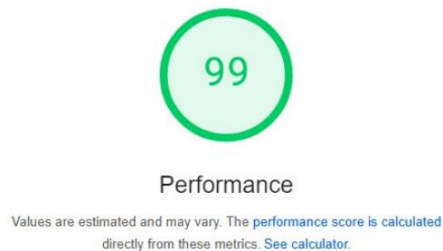
Vercel was chosen as the hosting platform due to its streamlined deployment pipelines and compatibility with real-time updates. Key steps included:

- Integrating the GitHub repository to automate builds and deployments.
- Configuring deployment settings to support backend functionalities like live menu updates, cart management, and order tracking.

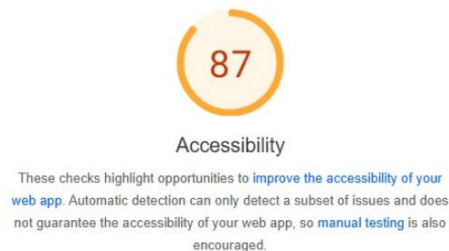


Checking Performance

- Performance (99): Excellent performance score. Your website loads quickly and efficiently, providing a smooth user experience.



- Accessibility (87): This score indicates some issues with accessibility, which could make the site difficult for users with disabilities to navigate.



- Best Practices (93): Very good adherence to coding and security best practices. Only minor improvements might be needed.
- SEO (83): The site is reasonably optimized for search engines but could benefit from additional SEO improvements. To enhance your site's overall scores



Staging Deployment

The platform was successfully deployed to a staging environment to simulate live conditions. This included:

- Validating core functionalities like food menu browsing, cart updates, and order placement.
- Ensuring seamless integration of backend APIs for inventory management and order processing.

Testing and Validation

Extensive testing was conducted to ensure the platform's readiness for production:

1. **Functional Testing:**
 - Verified addition and removal of food items from the cart.
 - Ensured proper functioning of checkout and payment workflows.
2. **Performance Testing:**
 - Used **Lighthouse** to validate fast load times and responsiveness, especially under peak usage scenarios.
3. **Security Testing:**
 - Confirmed HTTPS encryption for secure data transmission.
 - Ensured safe handling of sensitive user information.

Shared Chunks: Indicates JavaScript files shared across multiple pages

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}
✓ Generating static pages (28/28)
✓ Collecting build traces
✓ Finalizing page optimization

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Route (app)	Size	First load JS
o /	12 kB	164 kB
o /_not-found	880 B	88.8 kB
f /[[category]]	251 B	155 kB
o /aboutus	3.41 kB	155 kB
o /blog	1.78 kB	153 kB
f /blog[[id]]	1.77 kB	153 kB
o /checkout	3.91 kB	158 kB
o /error	1.25 kB	147 kB
o /faq	1.25 kB	147 kB
o /ordertracking	1.25 kB	147 kB
o /oucher	251 B	155 kB
f /oucher[[id]]	251 B	155 kB
o /ourmenu	3.13 kB	154 kB
o /payment	1.97 kB	148 kB
o /shop	4.21 kB	159 kB
f /shop[[id]]	1.2 kB	154 kB
o /shoppingcart	2.74 kB	157 kB
o /signin	1.27 kB	152 kB
o /signup	1.86 kB	156 kB
o /studio[[[...tool]]]	1.34 MB	1.46 MB
o /user	1.26 kB	147 kB
o /wishlist	2.18 kB	156 kB
* First load JS shared by all	89.9 kB	
chunks/2117-b5999ece2f213222.js	31.8 kB	
chunks/40d1d956-3ef58e9e43d3eae3.js	53.6 kB	
other shared chunks (total)	2.49 kB	

```

o (Static) prerendered as static content
f (Dynamic) server-rendered on demand

```

Results:

- **Successful Deployment:** The staging environment was fully deployed, accurately mimicking real-world conditions.
- **Improved Security:** Sensitive data and environment variables were effectively managed to prevent unauthorized access.
- **Reliable Functionality:** Testing confirmed that all critical features operate seamlessly.
- **Well-Organized Repository:** The project repository was structured clearly, including a well-documented README.md outlining the deployment process.

Conclusion

The successful setup and testing of the staging environment mark a significant achievement in our food truck platform project. This groundwork ensures a robust and user-friendly experience, paving the way for a smooth transition to production. By proactively addressing challenges and implementing best practices, we have positioned the platform for continuous enhancements and scalability.