

# Day 6: Deployment, Testing, and Documentation - Nike Store

## Objective

The objective of Day 6 was to successfully deploy the Nike Store project to a staging environment, ensure secure configuration of environment variables, and document the testing and performance evaluation. This report encapsulates the achieved milestones, testing results, and repository organization, highlighting a professional approach to the project's completion.

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## 1. Deployment Details

### Staging Environment

The Nike Store is successfully deployed on [Vercel](#), ensuring a fast, secure, and scalable environment.

- **URL:** <https://marketplace-nike-store.vercel.app/>
- **Hosting Provider:** Vercel
- **Staging Environment:** Configured for testing before the production launch.

### Environment Variables

Environment variables have been securely configured in Vercel to protect sensitive information. Key variables include:

- **SANITY\_API\_KEY:** For secure communication with the Sanity backend.
  - **JWT\_SECRET:** For user authentication and secure sessions.
  - **NEXT\_PUBLIC\_BASE\_URL:** Base URL for API calls.
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## 2. Testing and Performance Evaluation

### Testing Report Highlights

Test Case ID	Description	Expected Outcome	Actual Outcome	Status	Severity
TC-01	Homepage loading performance	Load within 3 seconds	Loaded in 2.5s	Passed	Low
TC-02	Product filtering functionality	Accurate product display by category/price	Worked as expected	Passed	Medium
TC-03	Cart addition and removal	Items added/removed correctly	Functioning as expected	Passed	High
TC-04	Checkout with invalid details	Display error for invalid input	Error handled correctly	Passed	Medium

## Performance Metrics

- **Lighthouse Report:**
  - **Performance:** 90%
  - **Accessibility:** 96%
  - **SEO:** 92%
  - **Best Practices:** 94%
- **Optimizations Implemented:**
  - Lazy loading for images.
  - Minified CSS and JavaScript files.
  - Database query optimization for faster API responses.

## Security Measures

- HTTPS enforced for all communications.
- Input validation for forms to prevent SQL injection and XSS.
- Secure environment variable handling in Vercel.

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## 3. Conclusion

The Nike Store project is now fully deployed and tested, showcasing:

1. Seamless user experience with responsive design.
2. Secure and scalable backend integration.
3. Performance and SEO optimizations.

This project is ready for further development or production deployment.