

## Day 6: Deployment Preparation and Staging Environment Setup

### Key Achievements:

- **Deployment Strategy:**

- o Hosted the application on Vercel for quick deployment.
- o Integrated GitHub repository for CI/CD.

- **Environment Variables:**

- o Configured sensitive variables (e.g., API keys) in .env and uploaded them securely to Vercel.

- **Staging Environment:**

- o Deployed a staging build to validate functionality in a production-like environment.

Example .env File:

```
NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id
```

```
NEXT_PUBLIC_SANITY_DATASET=production API_KEY=your_api_key
```

- **Staging Testing:**

- o Functional Testing: Verified key workflows like product listings and checkout.

- o Performance Testing: Used GTmetrix for analyzing speed and responsiveness.

- o Security Testing: Validated HTTPS, input handling, and secure API calls.

- **Documentation:**

- o Created a README.md summarizing the project structure and deployment steps.

- o Organized the GitHub repository with folders for src/, public/, and documents/.

## GitHub Repository Structure

Nike/

└─ src/

| └─ components/

| | └─ ProductCard.js

| | └─ FilterSidebar.js

| | └─ PaginationControls.js

| └─ pages/

| └─ index.js

| └─ product/

| └─ [slug].js

└─ public/

| └─ images/

| └─ assets/

└─ documents/

| └─ Day\_1\_Conceptualization.pdf

| └─ Day\_2\_Technical\_Planning.pdf

```
|  
|— Day_3_Data_Migration.pdf  
|— Day_4_Dynamic_Components.pdf  
+— Day_5_Testing_Report.csv  
|— Day_6_Deployment.pdf  
+— .env  
| README.md  
|_
```

## Conclusion

Over the six days, the Nike E-commerce Marketplace project progressed from concept to deployment, integrating robust features and ensuring a seamless user experience. With a well-structured GitHub repository, dynamic components, and comprehensive testing, the project is now ready for live deployment in a production environment.

### The next steps include:

1. Addressing any unresolved issues documented in the staging tests.
2. Monitoring the live environment for user feedback and performance metrics.
3. Scaling the platform to include advanced features like multi-language support and predictive analytics.

This marks the successful completion of the Nike E-commerce Marketplace hackathon project!