

DAY 6 - DEPLOYMENT PREPARATION AND STAGING ENVIRONMENT SETUP FOR NIKE STORE

Overview :

The Fashion Marketplace is an innovative e-commerce platform designed to empower both emerging fashion brands and individual sellers by providing a seamless, user-friendly shopping experience. Over the course of a week, the project evolved from initial concept discussions to the launch of a functional staging environment. Each day focused on critical tasks, from refining the marketplace's design and user interface to implementing secure payment systems and optimizing product listings. The result is a dynamic platform that fosters creativity, supports small businesses, and connects fashion-forward shoppers with unique, high-quality clothing and accessories.

Day 1: Conceptualization and Marketplace Design :

Outcomes :

- Choose a general e-commerce marketplace for fashion and clothing brands.
- Set the business goals for it.
- Define schemas for the entities according to the marketplace requirement.
- Defined relationship between those entities.

Day 2: Technical Planning :

Outcomes :

- Frontend: Next.js with Tailwind CSS for styling.
- Backend: Sanity CMS for content management.
- Database: MongoDB for storing sensitive data and authentication.

- APIs: ShipEngine for order tracking and Stripe for payment processing.

Day 3: Data Migration :

Outcomes :

- **Data Migration**- done from Sanity CMS to Nextsjs using GROQ queries.
- **Product schema**- includes fields like name, inventory, price etc.
- **Data displayed**- to the homepage was fetched dynamically.

Day 4: Building Dynamic Frontend Components :

Outcomes :

- **Product listing**- component made to show all the products.
- **Sidebar**- component to show products category wise.
- **Search Bar**- component to find products quickly with their names.

Day 5: Testing and Backend Refinement :

Outcomes :

- **Functional Testing**- check workflow of cart functionality , product listing , productdetails, API integration.
- **Performance Testing**- Lighthouse has been used to check website performance.
- **Security Testing**- Validated input fields, secure API keys, and HTTPS implementation

Day 6: Testing and Backend Refinement :

Outcomes :

- **Deployment Strategy-** used Vercel for the deployment.
- **Environment Variable-** set variable(eg. API keys) in .env file and securely sent to Vercel.
- **Staging Environment-** Deployed a staging build to validate functionality in a production-like environment.
- **Staging Testing-** it includes functional testing, performance testing and security testing.
- **Documentation Updates-** Readme file made to explain structure and step of deployment.

Conclusion :

In conclusion, Day 6 marked the successful preparation for deployment and the setup of a staging environment for the Fashion Marketplace. After completing essential tasks like refining the platform's functionality, performance, and security, we deployed the platform to Vercel for final validation. This staging environment allowed us to simulate real-world conditions, ensuring the platform was fully functional, secure, and optimized before its official launch.