

# DAY 6 - DEPLOYMENT PREPARATION AND STAGING ENVIRONMENT SETUP

## Key Achievements

### Completed End-to-End Development:

The Nike e-commerce platform was built using Next.js for frontend and Sanity CMS for backend management. The project supports features such as dynamic product details, sorting, filtering, and a seamless checkout experience.

### Responsive Design:

Developed the website with a mobile-first approach, ensuring that it provides a smooth experience across various screen sizes. This included implementing flexible layouts for product listings, cart, checkout, and filter components.

## Deployment Strategy

### Hosting Platform:

The website is hosted on Vercel for optimized performance, scalability, and fast deployment.

### Deployment Process:

- **Frontend:** Deployed the Next.js app to vercel. Vercel automatically handles SSR (Server-Side Rendering) and static content generation.
- **Backend:** The Sanity CMS backend is hosted on the Sanity.io platform, which is directly integrated with the Next.js frontend for dynamic data fetching.
- **Environment Variables:** Set up critical environment variables for managing API keys and production configurations securely.

# Environment Variables

The project uses environment variables for storing sensitive data and API keys. These variables are defined in `.env.local` for development. Common variables include:

- **NEXT\_PUBLIC\_SANITY\_PROJECT\_ID:** Sanity CMS Project ID.
- **NEXT\_PUBLIC\_SANITY\_DATASET:** The dataset used for product and inventory data.
- **NEXT\_PUBLIC\_SANITY\_API\_VERSION:** The API version for interacting with the Sanity CMS API, ensuring compatibility with your project setup.

## 1. Create README.md:

The README.md file will include the following:

- **Project Overview:** A brief description of the Nike e-commerce platform, its core features, and the technology stack used (Next.js for frontend, Sanity CMS for backend).
- **Features: Key features of the platform, such as:**
  - Dynamic product details
  - Sorting and filtering options
  - Smooth checkout experience
  - Mobile-first responsive design
- **Technology Stack: List of technologies used, including:**
  - **Frontend:** Next.js, React
  - **Backend:** Sanity CMS
  - **Hosting:** Vercel