

## Day 06: Deployment Preparation on Vercel

On Day 6, the focus was on preparing the e-commerce marketplace for deployment on Vercel. The goal was to ensure a smooth and optimized deployment process while addressing potential challenges.

### 1. Code Optimization

Before deployment, the following optimizations were implemented:

- **Minimized Bundle Size:** Removed unnecessary dependencies and optimized image loading.
- **Lazy Loading:** Implemented lazy loading for non-critical components to improve initial load speed.
- **Server-Side Rendering (SSR) & Static Site Generation (SSG):** Optimized pages using SSR and SSG for better performance and SEO.

### 2. Environment Variables Setup

To secure API keys and sensitive information, environment variables were configured in Vercel:

- **NEXT\_PUBLIC\_SANITY\_PROJECT\_ID:** Used for Sanity integration.
- **NEXT\_PUBLIC\_SANITY\_DATASET:** Used for sanity integration.
- **SANITY\_API\_TOKEN**
- **NEXT\_PUBLIC\_SANITY\_API\_TOKEN**
- **NEXT\_PUBLIC\_SANITY\_API\_VERSION**

### 3. Configuring Vercel for Deployment

- Connected the project repository to Vercel.
- Configured build settings and selected the correct framework (Next.js).
- Enabled automatic deployments from the main branch.
- Configured custom domains and ensured proper routing for dynamic pages.

### 4. Testing in a Production Environment

After deployment, the following tests were conducted:

- **User Authentication:** Verified login, signup, and role-based access control.
- **Product Listing & Filtering:** Ensured products were fetched correctly from Sanity.
- **Checkout Process:** Tested Stripe integration and order placement.
- **Performance & Security Checks:** Monitored performance using Vercel analytics and verified security configurations.

## 5. Deployment Success & Next Steps

With the marketplace successfully deployed on Vercel, the next steps involve:

- Monitoring real-time performance and analytics.
- Gathering user feedback for improvements.
- Implementing advanced features such as order tracking and notifications.

This marks a significant milestone in making the e-commerce platform accessible to users worldwide!