

# Day 6 — Deployment Preparation & Staging

## Environment Configuration

### Marketplace: HECTO - E-commerce Marketplace

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**Class Slot:** Tuesday, 2:00 PM to 5:00 PM

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#### 1. Hosting Platform Setup & Configuration

- **Hosting Platform:** VERCEL
- **Deployment URL:**  
<https://hackathon3-e-commerce-website-lm98nupfm-zeenat-yameens-projects.vercel.app/>
- **GitHub Repository:**  
[Zistaza/Hackathon3--E-Commerce-Website \(github.com\)](https://github.com/Zistaza/Hackathon3--E-Commerce-Website)
- **Build Settings:** Custom build configurations applied for enhanced performance and security.
- **Environment Variables:** Securely configured to ensure smooth deployment.

#### Deployment Tips:

- Ensure that the **.env** file is correctly configured and securely uploaded to VERCEL.
  - Verify all environment variables in **VERCEL Project Settings** before final deployment to avoid configuration issues.
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#### 2. Secure Environment Variables Configuration

A **.env** file was created containing the following key variables:

- **NEXT\_PUBLIC\_SANITY\_PROJECT\_ID** → Unique identifier for Sanity project.
- **NEXT\_PUBLIC\_SANITY\_DATASET** → Dataset name for production.

- **API\_KEY** → Authentication key for third-party integrations.

#### Why It's Important:

- Ensures secure handling of sensitive information.
  - Prevents unauthorized access and improves application security.
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### 3. Sanity Deployment URL Configuration

For seamless Sanity CMS integration, the deployment URL was added to the CORS (Cross-Origin Resource Sharing) settings:

#### Steps to Configure:

1. Navigate to Sanity Project Settings → API → CORS Origins.
2. Add the deployment URL: `https://hekto-e-commerceeight.vercel.app/`.

#### Why It's Important:

- Allows secure communication between the deployed application and Sanity CMS.
  - Prevents CORS-related errors while fetching data.
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### 4. Clerk Webhook Setup

If Clerk is used for authentication, webhooks were configured to ensure secure user operations.

#### Steps Taken:

- Generated a webhook URL in the Clerk Dashboard.
- Added the webhook endpoint to VERCEL Environment Variables:

#### Example:

`CLERK_WEBHOOK_URL=https://hekto-e-commerceeight.vercel.app/api/webhook`

#### Key Considerations:

- The application securely verifies the webhook signature provided by Clerk.
- Webhooks were tested to ensure real-time updates for user creation, deletion, and authentication events.

### Why It's Important:

- Ensures seamless synchronization between Clerk and the application.
  - Provides real-time updates for user management.
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## 5. Clean Code Practices Before Deployment

To maintain code quality, the following best practices were implemented:

### • Removal of Unused Imports & Functions:

- Reviewed the codebase to eliminate unnecessary variables and functions.
- Used tools like ESLint and Prettier for automated code cleanup.
- Ran npm build locally to detect and resolve any warnings or dependency issues.

### Why It's Important:

1. Prevents unexpected errors during deployment.
  2. Reduces unnecessary bundle size, improving performance.
  3. Ensures a well-optimized and error-free application.
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## 6. Error Checks Before Deployment

Before deploying, a comprehensive build check was conducted:

- Ran npm build locally to identify and resolve any potential build errors.
- Verified that all dependencies and configurations were correctly set up.

### Outcome:

- The build process was completed successfully, ensuring a smooth deployment.
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## 7. Staging Deployment & Verification Process

- Staging Environment: Successfully deployed the application on VERCEL.

- **Deployment Status: Completed without any issues.**
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## **Final Thoughts**

The deployment process was meticulously planned and executed, ensuring a stable, secure, and optimized staging environment for HECTO Marketplace. All essential configurations, environment variables, and security measures were properly set up, paving the way for a successful production release.