

# Day 6 — Deployment Preparation & Staging

## Environment Configuration

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**Prepared By:** Jawaid Ali

**Marketplace Name:** Hekto - E-commerce Marketplace

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

**Task Completed:** Day 6 — Deployment Preparation & Staging Environment Configuration

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### 1. Hosting Platform Setup & Configuration

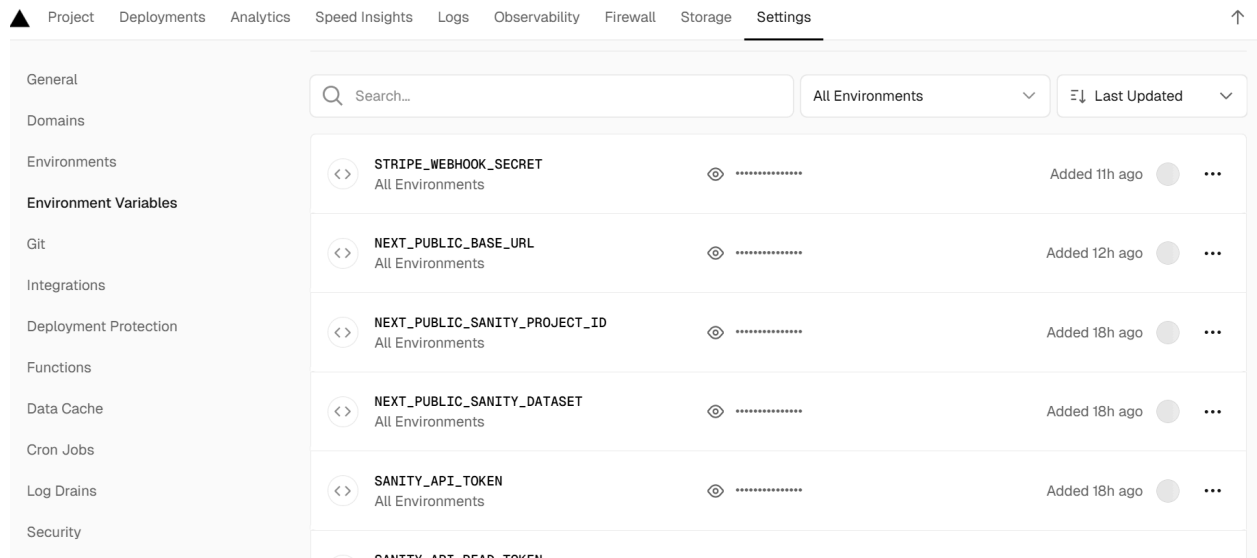
- **Platform Chosen:** Vercel
  - **Deployment URL:** <https://hekto-e-commerce-eight.vercel.app/>
  - **GitHub Integration:**  
Repository: <https://github.com/jawaidali735/Full-Stack-E-commerce-Site>
  - **Build Settings:** Custom build settings applied for enhanced performance and security.
  - **Environment Variables:** Securely configured specific variables for deployment.
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## 2. Secure Environment Variables Configuration

- A `.env` file was created with the following key variables:
  - `NEXT_PUBLIC_SANITY_PROJECT_ID`: Unique Sanity project identifier.
  - `NEXT_PUBLIC_SANITY_DATASET`: Dataset name for production data.
  - `API_KEY`: Key for third-party service integration.

### Deployment Tip:

- Make sure the `.env` file is properly configured and securely uploaded to Vercel.
- Always verify the environment variables in the **Vercel Project Settings** to ensure they are correctly mapped before deployment.



## 3. Sanity Deployment URL Configuration

- **Sanity CMS Integration:** If your data is being fetched from Sanity CMS, ensure the deployment URL is defined in the **CORS (Cross-Origin Resource Sharing)** settings of Sanity.

- **Steps:**

1. Go to the **Sanity Project Settings > API > CORS Origins**.
2. Add your deployment URL

(<https://hekto-e-commerce-eight.vercel.app/>) to the allowed origins list.

Webhooks




CORS origins

Tokens

CORS origins

+ Add CORS origin

Hosts that can connect to the project API.

ORIGIN	CREDENTIALS	CREATED	
https://hekto-e-commerce-eight.vercel.app	Allowed	16 hours	
http://localhost:3000	Allowed	2 days	
http://localhost:3333	Allowed	2 days	

### Why It's Important:

- This step ensures secure communication between your deployed application and Sanity CMS.

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## 4. Clerk Webhook Setup

- If **Clerk** is used for authentication, configure webhooks for secure operations:

- Generate the webhook URL in the Clerk dashboard.
- Add the webhook endpoint to your **Vercel Environment Variables**:

Example:

```
CLERK_WEBHOOK_URL=https://https://hekto-e-commerce-eig  
ht.vercel.app/api/webhook
```

### Important Notes:

- Ensure your application securely verifies the webhook signature provided by Clerk.
- Test the webhook functionality to confirm that Clerk events (like user creation or deletion) are properly received and handled.

### Why It's Important:

- Webhooks ensure real-time synchronization between Clerk and your application.
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## 5. Clean Code Practices Before Deployment

- **Unused Imports & Functions:**
  - **Review Codebase:** Ensure that all unused imports, variables, and functions are removed.
  - Use tools like **ESLint** or **Prettier** to detect unused code.
  - Run the `npm build` command locally to identify any unused dependencies or warnings.

### Why It's Important:

1. Unused code can cause unexpected errors during deployment.
  2. It bloats the bundle size, impacting performance.
  3. Cleaning ensures the application is optimized and error-free.
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## 6. Error Check Before Deployment

- **NPM Build Check:**
    - Before deploying, the codebase was tested locally using the `npm build` command to detect and resolve any build errors.
    - **Outcome:** This process ensured that the deployment was free of potential build-related issues.
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## 7. Staging Deployment & Verification Process

- **Staging Environment:** Successfully deployed the application to Vercel.
- **Deployment Status:** Completed without issues.

Production Deployment

Build Logs

Runtime Logs

Instant Rollback

Deployment

hekto-e-commerce-iggmoqmo6-jawaid-alis-projects.vercel.app

Domains

hekto-e-commerce-eight.vercel.app +2

Status

Created

Ready

7h ago by jawaidali735

Source

main

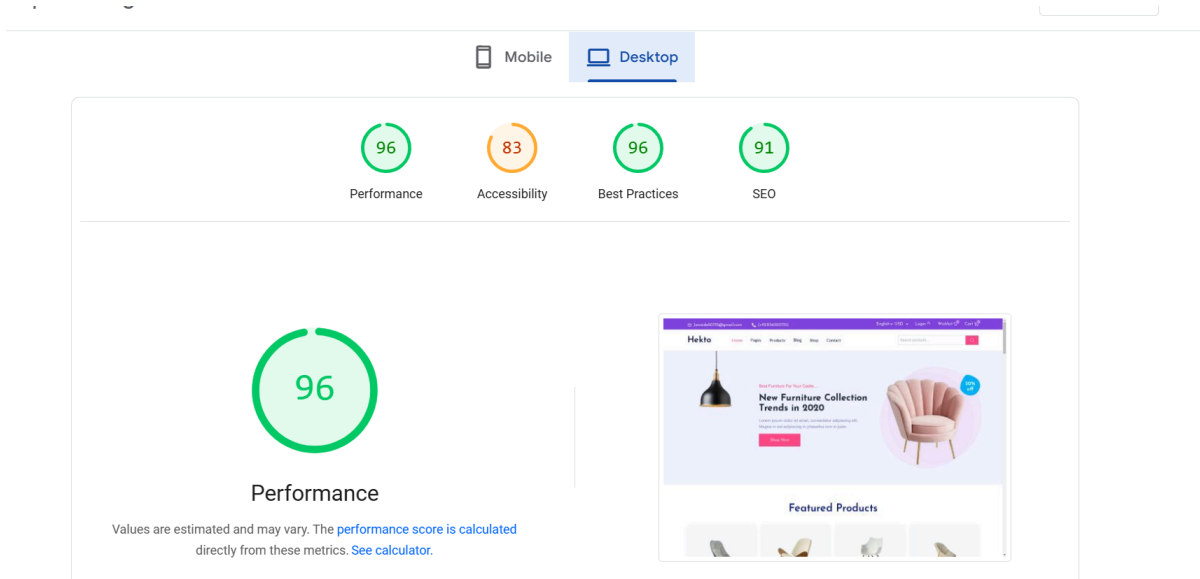
a1a6321

added fixes

```
✓ Collecting build traces
✓ Finalizing page optimization
```

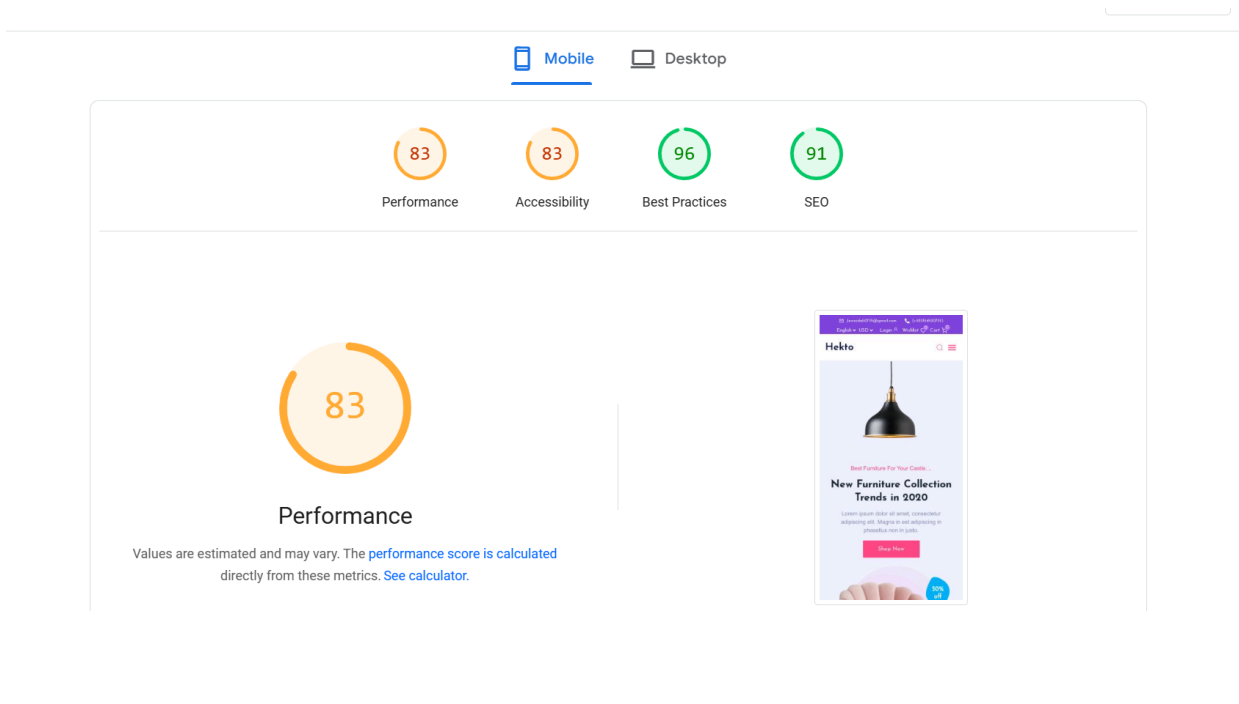
Route (app)	Size	First Load JS
o /	2.59 kB	146 kB
o /_not-found	880 B	88.8 kB
o /about	1.8 kB	94.9 kB
f /api/review	0 B	0 B
f /api/shipengine	0 B	0 B
f /api/webhook	0 B	0 B
f /blog/[id]	6.42 kB	110 kB
o /blogs	485 B	100 kB
o /cart	6.23 kB	174 kB
o /contact	477 B	93.6 kB
f /products/[slug]	18.9 kB	162 kB
f /search	1.71 kB	145 kB
o /shipping	4.71 kB	124 kB
o /shop	2.37 kB	146 kB
f /sign-in/[...sign-in]	4.47 kB	130 kB
f /sign-up/[...sign-up]	3.99 kB	127 kB
o /studio/[...tool]	1.3 MB	1.46 MB
o /success	3.95 kB	104 kB
o /wishlist	4.22 kB	172 kB
+ First Load JS shared by all	87.9 kB	
└─ chunks/2117-c2449cbe7722dfe4.js	31.8 kB	
└─ chunks/fd9d1056-375afd9ebfb3f72d.js	53.6 kB	
other shared chunks (total)	2.52 kB	
o (Static) prerendered as static content		
f (Dynamic) server-rendered on demand		

- **Desktop Performance:**
  - Verified optimal page load speed.
  - Ensured seamless browser compatibility across different platforms.



- **Mobile Performance:**

- Conducted responsiveness tests to confirm mobile-friendly design.
- Optimized page speed for an excellent mobile user experience.



## 9. Summary

- The deployment process was executed successfully, with additional steps for:
    - Configuring **Clerk webhooks**.
    - Secure **environment variable handling**.
    - Clean coding practices.
  - Regular testing on desktop and mobile platforms ensured optimal performance and functionality.
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**By Jawaid Ali**

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