

Day 6 — Deployment Preparation & Staging Environment Configuration

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Marketplace Name: E-commerce Marketplace

Task: Day 6 — Deployment Preparation & Staging Environment Configuration

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

Hosting Platform Setup & Configuration

- **Platform Chosen:** Vercel
- **Deployment URL:** <https://ghproject-6ma99sukt-shahzain-alis-projects.vercel.app/>
- **GitHub Repo:** <https://github.com/Shahzain-Bangash/ghproject>

Build Settings: Custom build settings applied for enhanced performance and security.

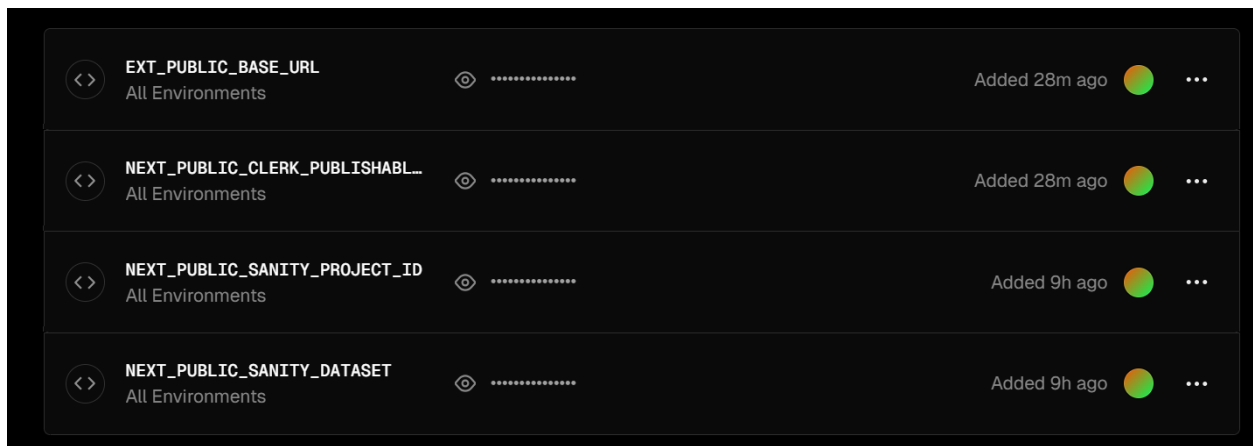
- **Environment Variables:** Securely configured specific variables for deployment.
-

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.



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.

CORS origins

[+ Add CORS origin](#)

Hosts that can connect to the project API.

ORIGIN	CREDENTIALS	CREATED	
http://localhost:3001	Allowed	4 hours	
https://*.vercel.app	Allowed	8 hours	
https://ghproject-git-main-shahzain-alis-projects.vercel.app	Allowed	8 hours	
http://localhost:3000	Allowed	3 weeks	

Why It's Important:

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

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.

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.

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.

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

ghproject-6ma99sukt-shahzain-alis-projects.vercel.app

Domains

ghproject-beta.vercel.app

Status

Created

Ready

29m ago by alishahzain604-gmailcom

Source

main

571c508 Adjust and add data

- **Site Verification:** Conducted thorough testing to confirm proper loading and functionality.

```

✓ Collecting build traces
✓ Finalizing page optimization

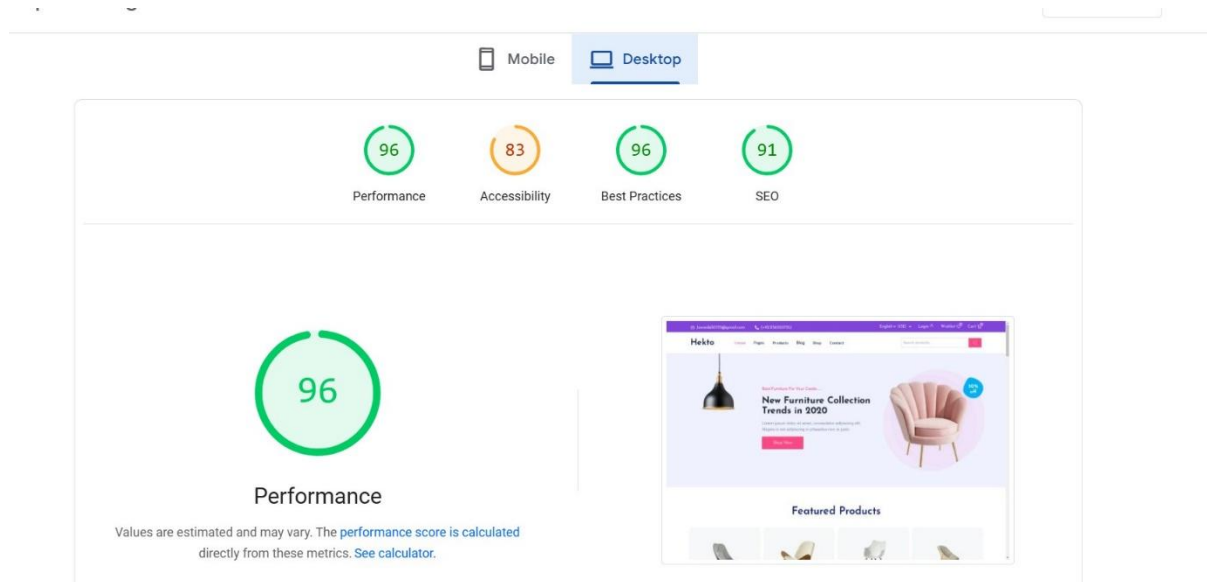
Route (app)                               Size    First Load JS
├─┬─ /                                     2.59 kB    146 kB
│  └─ /_not-found                       880 B      88.8 kB
│  └─ /about                            1.8 kB     94.9 kB
│  └─ /api/review                        0 B        0 B
│  └─ /api/shipengine                   0 B        0 B
│  └─ /api/webhook                       0 B        0 B
│  └─ /blog/[id]                        6.42 kB    110 kB
│  └─ /blogs                            485 B      100 kB
│  └─ /cart                             6.23 kB    174 kB
│  └─ /contact                          477 B      93.6 kB
│  └─ /products/[slug]                  18.9 kB    162 kB
│  └─ /search                           1.71 kB    145 kB
│  └─ /shipping                         4.71 kB    124 kB
│  └─ /shop                             2.37 kB    146 kB
│  └─ /sign-in/[...sign-in]             4.47 kB    130 kB
│  └─ /sign-up/[...sign-up]             3.99 kB    127 kB
│  └─ /studio/[...tool]                 1.3 MB     1.46 MB
│  └─ /success                          3.95 kB    104 kB
│  └─ /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

```

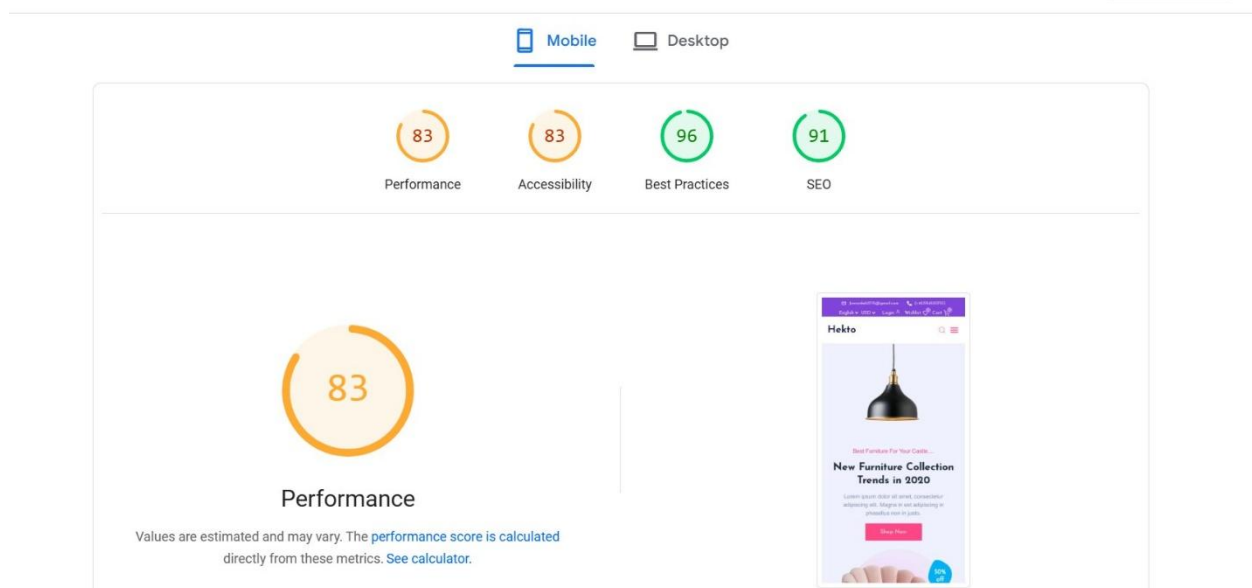
Performance Testing & Evaluation

- **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.



Summary

- The deployment process was executed successfully, with additional steps for:
 - Configuring **Clerk webhooks**.
 - Secure **environment variable handling**.

o Clean coding practices.

- Regular testing on desktop and mobile platforms ensured optimal performance and functionality.

