

## 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

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### 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.

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### 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.

<>	EXT_PUBLIC_BASE_URL All Environments	👁️ .....	Added 28m ago	🟢	...
<>	NEXT_PUBLIC_CLERK_PUBLISHABLE_KEY All Environments	👁️ .....	Added 28m ago	🟢	...
<>	NEXT_PUBLIC_SANITY_PROJECT_ID All Environments	👁️ .....	Added 9h ago	🟢	...
<>	NEXT_PUBLIC_SANITY_DATASET All Environments	👁️ .....	Added 9h ago	🟢	...

## 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 [ghproject-qkq7kibl6-shahzain-alis-projects.vercel.app](https://ghproject-qkq7kibl6-shahzain-alis-projects.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:

#### **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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### **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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### **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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### **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 +2

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
┌───┴───┐
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/fd9d1856-375afd9ebfb3f72d.js 53.6 kB
  └ other shared chunks (total) 2.52 kB

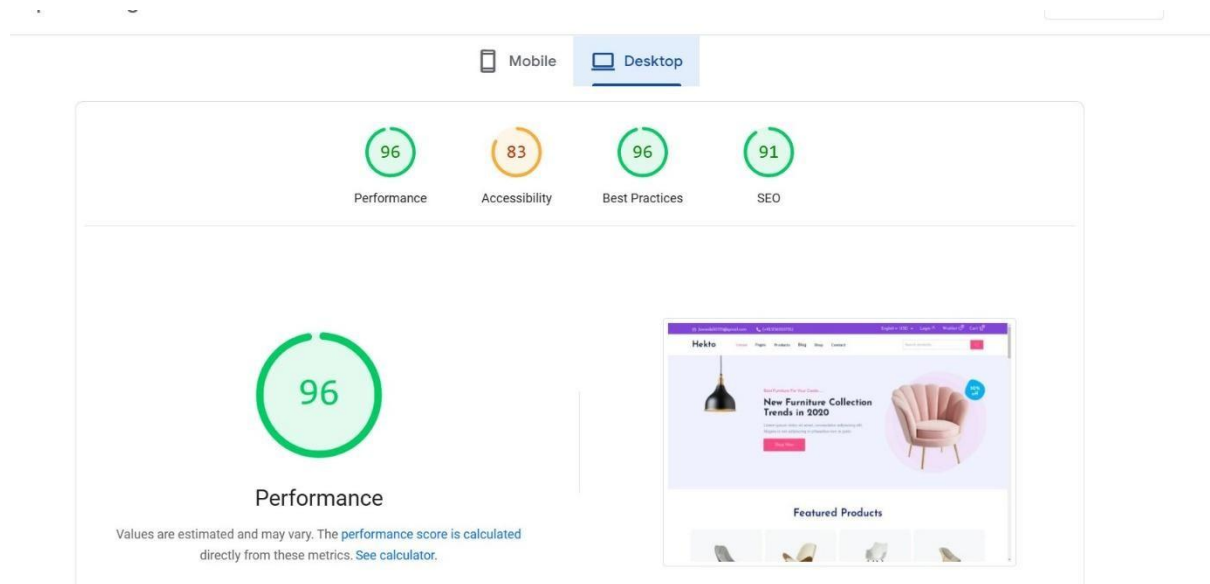
o (Static) prerendered as static content
f (Dynamic) server-rendered on demand

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## Performance Testing & Evaluation ●

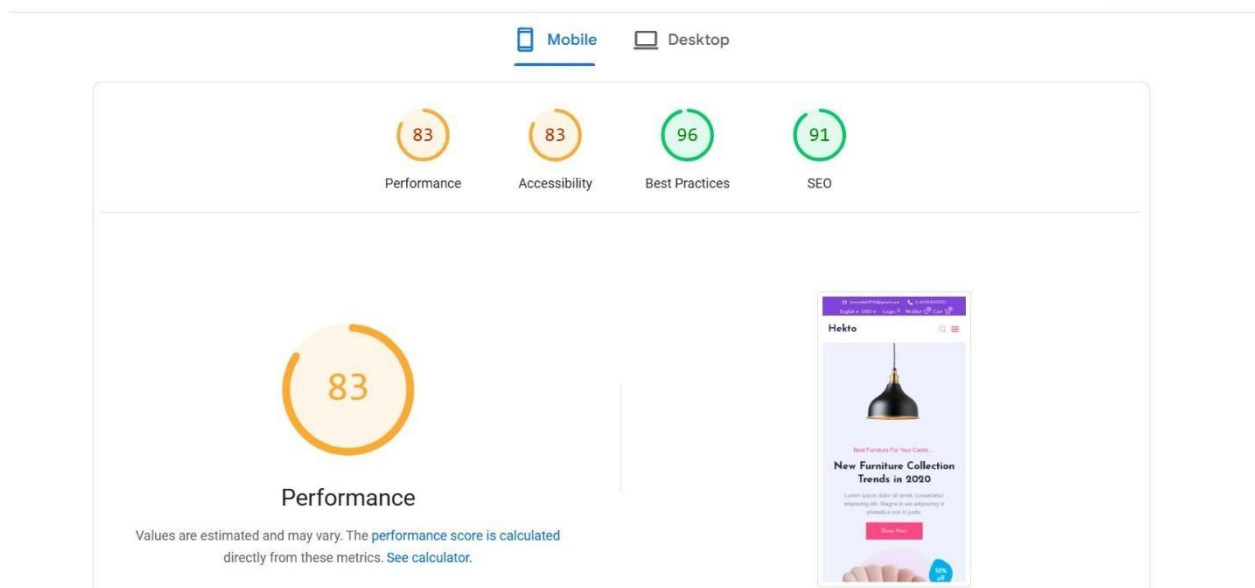
### Desktop Performance:

- o Verified optimal page load speed.
- o 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.

