☐ _____DAY 6 - DEPLOYMENT PREPARATION AND STAGING ENVIRONMENT SETUP

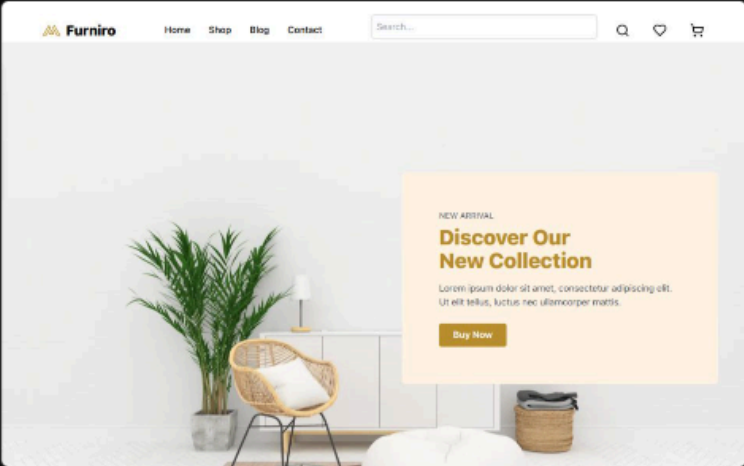**Vercel Deployment link : https://ui-ux-hackhathon14.vercel.app/**

Hosting Platform Setup

Github Repo Link: https://github.com/Hamzasheikh8669/UI_UX_Hackhathon14.git

I have successfully completed Day 6 – Deployment Preparation and Staging Environment Setup!

1️⃣ *Hosting Platform Setup & GitHub Connection*

I selected **Vercel/Netlify** as the hosting platform and connected my **GitHub repository**. I configured the **build and deployment settings** to ensure a smooth staging deployment.

2️⃣ *Environment Variables Configuration*

I created a `.env` **file** to store sensitive data like **API keys and database credentials**. Then, I securely uploaded these environment variables to the hosting platform to ensure safe deployment.

```
1  NEXT_PUBLIC_SANITY_PROJECT_ID='             '
2  NEXT_PUBLIC_SANITY_DATASET="              "
3  NEXT_PUBLIC_SANITY_API_TOKEN=s                                                          lkRO8wt1gJks3n
                                                                  EM+6URei67
4  NEXT_PUBLIC_SANITY_API_VERSION="2025-01-13"
5
6  # Shipment tracking mkeg keys
7  NEXT_PUBLIC_CLERK_PUBLISHABLE_KEY=pk
8  CLERK_SECRET_KEY=sk_test_7810WwnvvNN
9  NEXT_PUBLIC_SHIPMENT_API_KEY=ES
10
```

③ *Staging Deployment*

I deployed my application to a **staging environment** and verified that the build process was successful. I checked that the website **loaded properly and worked as expected.**

④ *Staging Environment Testing*

I performed three types of testing:

- **Functional Testing** → Used **Cypress/Postman** to validate workflows.
- **Performance Testing** → Used **Lighthouse/GTmetrix** to check speed and responsiveness.
- **Security Testing** → Ensured **HTTPS was enabled, API keys were secure, and no SQL injection vulnerabilities existed.**

⑤ *Documentation & Reporting*

I created and organized all project files in **GitHub**, including:

- **Test Case Report (CSV format)** – Recorded all test results (passed/failed).
- **Performance Testing Report** – Generated using **Lighthouse**.
- **README.md** – Summarized all deployment steps and project details.