

HACKATHON DAY 06:

Deployment Preparation and Staging Environment Setup:

Deployment Strategy Planning:

For my **marketplace eCommerce website**, I have successfully deployed two separate projects on **Vercel**:

1. **Admin Panel** – A dedicated interface for managing products, orders, users, and other administrative functionalities.
2. **Customer-Facing Marketplace** – The main eCommerce platform where users can browse products, add them to the cart, make purchases, and track their orders.

Deployment Approach

Our deployment strategy ensures a **modular architecture**, allowing independent updates and maintenance of both the **admin panel** and **marketplace** without affecting each other.

1. Environment Setup

- We configured **Vercel CLI** for seamless integration with our repository.
- Environment variables were securely stored in **Vercel's settings** to manage API keys, database connections, and other sensitive configurations.
- Branching strategy: We use **main (production)** and **dev (testing/staging)** branches for smooth CI/CD.

2. Deployment Process

- **Admin Panel Deployment**
 - Built using **Next.js** for a fast and dynamic dashboard experience.
 - Connected to the backend API for real-time data updates.
 - Hosted on a dedicated **Vercel instance** to ensure secure access for authorized users only.
- **Customer Marketplace Deployment**
 - Developed using **Next.js** and optimized for **SEO & performance**.
 - Integrated with APIs for **product management, cart functionality, order processing, and user authentication**.
 - Configured caching and image optimization for **fast-loading pages**.

3. Vercel Links

- o admin-panel-151214.vercel.app
- o hackathon-05-51214.vercel.app

The image shows two screenshots of a web application. The top screenshot is the 'Admin Login' page, which has a white background with a central login form. The form contains two input fields: 'Email Address' with the placeholder 'Enter your email' and 'Password' with the placeholder 'Enter your password'. Below these fields is a red 'Login' button. At the bottom of the form, there is a link that says 'Forgot password? Reset here'. The bottom screenshot is the 'Admin Dashboard' page. It has a red header bar with the title 'Admin Dashboard' and four tabs: 'All', 'Pending', 'Dispatch', and 'Success'. Below the header is a table titled 'Orders'. The table has columns for ID, Customer, Address, Date, Total, Status, Details, and Action. There are three rows of data in the table.

ID	Customer	Address	Date	Total	Status	Details	Action
gt8nJv39MvgDKs6TPzjUfC	Hassan Ali	Korangi crossing	1/1/1970	\$	Dispatch	View	Delete
gt8nJv39MvgDKs6TQBMrO	Ali Talhara	Street # 2 Mohalla Tajpura Khushab	1/1/1970	\$	Pending	View	Delete
tDAU0vxcOmsfYisMkGAg2K	Muhammad Zahid	382/2 Paf Base Korangi	1/1/1970	\$	Completed	View	Delete

Environment Variable Configuration:

To ensure security, scalability, and maintainability, our **marketplace eCommerce website** uses environment variables to manage sensitive configurations across both deployments (**Admin Panel** and **Customer Marketplace**).

1. Storing Environment Variables

- All environment variables are stored securely in **Vercel's Environment Variables Settings** under **Project Settings → Environment Variables**.
- We maintain different environments:
 - **Development (.env.local)** – Used for local testing.
 - **Production (Vercel)** – Stored securely on Vercel for live deployment.

2. Key Environment Variables

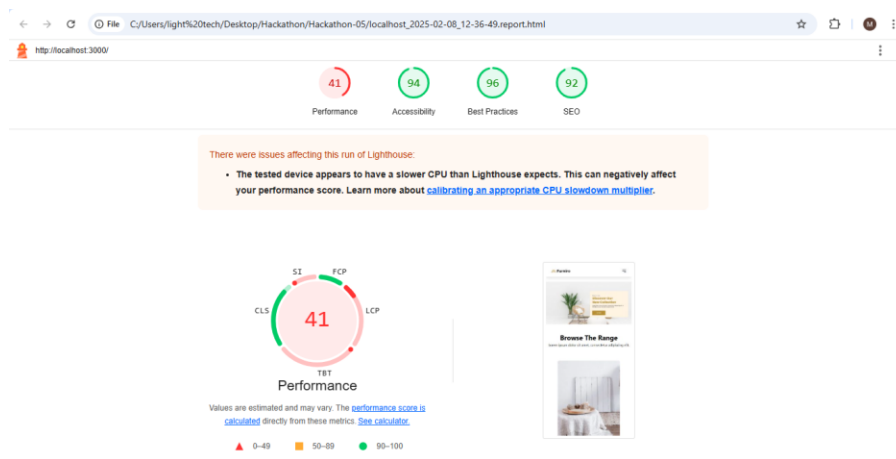
Variable Name	Purpose	Applies To	Example Value (Masked)
NEXT_PUBLIC_API_URL	Base API URL for fetching data	Admin Panel & Marketplace	https://api.example.com
DATABASE_URL	Database connection string	Admin Panel & Marketplace	postgres://user:password@host:port/db
JWT_SECRET	Secret key for user authentication	Admin Panel & Marketplace	*****
STRIPE_SECRET_KEY	Payment gateway secret key	Marketplace	sk_live_*****
NEXT_PUBLIC_STRIPE_PUBLIC_KEY	Stripe public key for frontend	Marketplace	pk_live_*****
NEXT_PUBLIC_CLOUDINARY_URL	Cloudinary for image storage	Admin Panel & Marketplace	https://res.cloudinary.com/example/

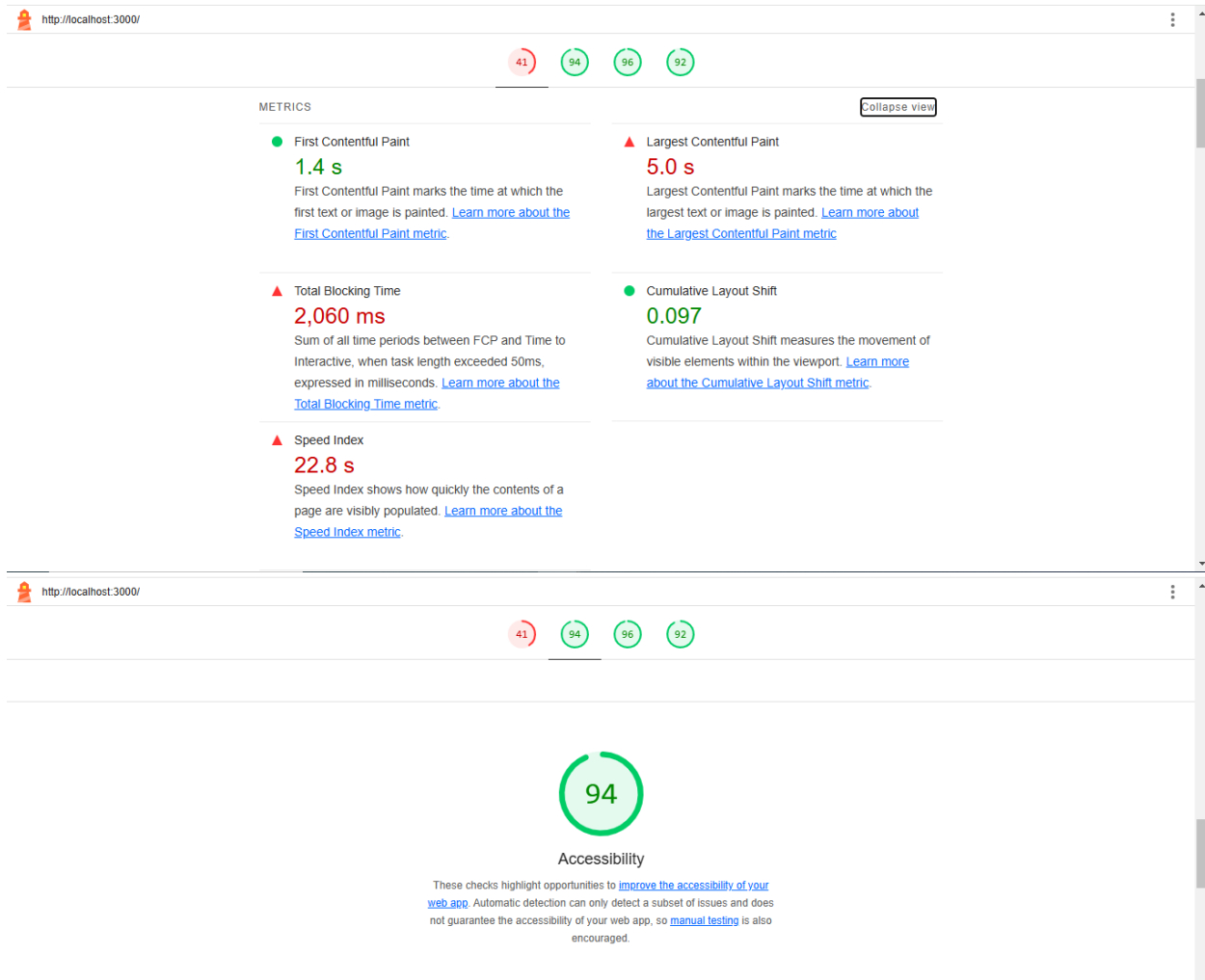
EMAIL_SMTP_HOST	SMTP server for sending emails	Marketplace	smtp.mailprovider.com
EMAIL_SMTP_USER	SMTP username for email authentication	Marketplace	*****
EMAIL_SMTP_PASSWORD	SMTP password (kept secret)	Marketplace	*****

3. Configuration in Vercel

- Go to Vercel → Project Settings → Environment Variables.
- Add each environment variable under the correct **Scope** (Production, Preview, Development).
- Deploy changes to apply updated variables.

Staging Environment Setup & Testing:





localhost:3000/shop

Dimensions: iPhone SE 375 x 667 100%

Furniro

Sort Options

Products From API Data

Cloud Haven Chair

Sink into comfort with the Cloud Haven Chair—where softness meets support in a beautifully designed ...

Rs. 230.00

Elements

Console

Styles

Computed

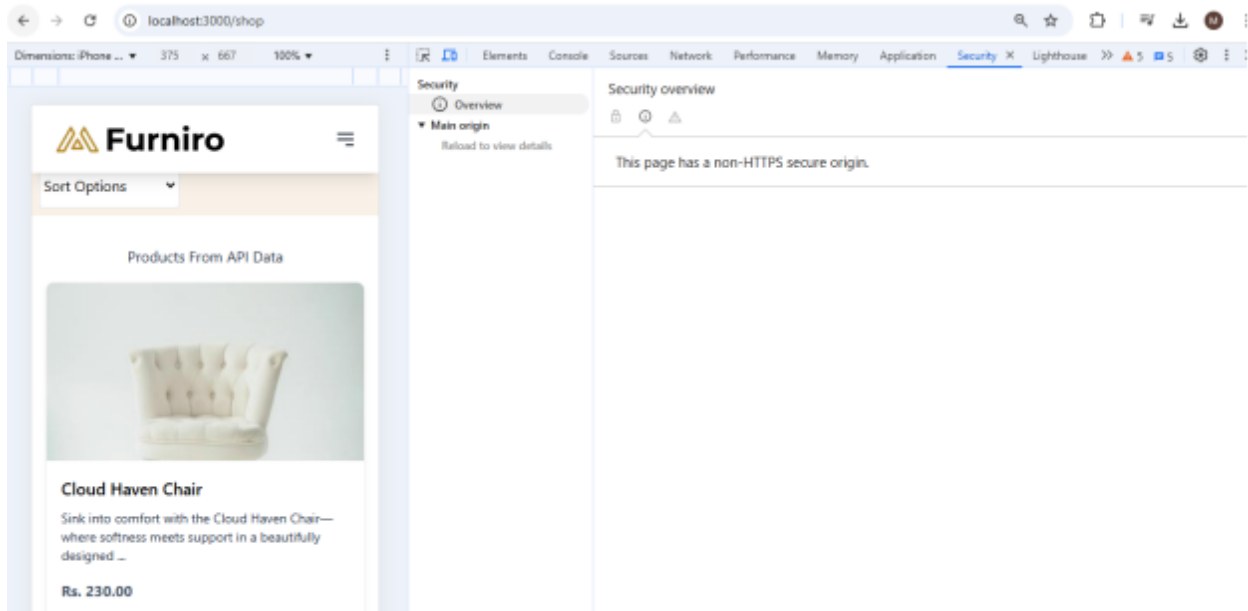
Layout

Event Listeners

Filter by URL and error

Status	URL	Initiator	Total Bytes	Error
success	/jsonchanset=utf-8;base64.eyJ2ZGZlW9uZjZlCjmaWVlpc		357	
success	/jsonchanset=utf-8;base64.eyJ2ZGZlW9uZjZlCjmaWVlpc		7304	
success	/jsonchanset=utf-8;base64.eyJ2ZGZlW9uZjZlCjmaWVlpc		932	
success	/AChckuACAgICAgCA8ZGZlW9uZjZlCjmaWVlpc		12448	
success	/jsonchanset=utf-8;base64.eyJ2ZGZlW9uZjZlCjmaWVlpc		7264	

5 resources



“HACKATHON DAY 06 ENDS HERE THANK U”