Day 6
Staging Environment setup

Overview day 1- day 6

CozyCorner Marketplace is an e-commerce platform designed to provide a seamless shopping experience for customers seeking high-quality furniture and home decor at fair prices. It also serves as a marketplace for small businesses and independent sellers, offering a user-friendly space to buy and sell products. The project progressed from the initial planning phase to the deployment of a staging environment.

Over the course of six days, the project moved from the initial planning stage to setting up a staging environment. The development of the CozyCorner furniture and home decor e-commerce platform followed a structured and strategic approach. The initial planning and design phase focused on establishing the primary goals: offering fair-priced quality furniture, supporting small businesses, and simplifying the online buying and selling process. The core entities Products, Orders, Customers, and Delivery Zones were carefully structured, ensuring seamless relationships between customers and their orders, along with drivers assigned to delivery zones. The technical foundation was then laid out, selecting Next.js and Tailwind CSS for the frontend, while Sanity CMS was chosen for backend content management. Additionally, Ship Engine for logistics, Stripe for secure payments, and custom APIs for user, product, and order management were integrated to enhance platform functionality.

On the third day, the integration of Sanity CMS with Next.js was prioritized to enable smooth data retrieval and real-time updates, using GROQ queries to dynamically fetch product information. This ensured that the homepage and shop pages consistently displayed the latest listings without manual updates. The fourth day marked the start of frontend development, with an emphasis on building modular and reusable components such as Product List, Product Card, Filter Sidebar, and Pagination Controls, significantly enhancing the user experience by making product discovery and navigation effortless.

The fifth day was dedicated to rigorous testing and optimization, including functional, performance, security, and accessibility testing. Essential features like product browsing, cart management, and order placement were thoroughly tested to ensure smooth operation, while performance evaluations confirmed fast load times. Security assessments mitigated potential vulnerabilities, and accessibility checks guaranteed an inclusive experience for all users. The platform achieved high scores in performance, security, SEO, and best practices, solidifying its efficiency and reliability.

On the final day, the platform was successfully deployed on Vercel, ensuring a scalable and secure hosting environment. GitHub was used for version control, with sensitive environment variables securely stored in an .env file. A staging environment was set up to conduct final tests on functionality, security, and performance before the official launch. This structured development process resulted in a robust, user-friendly, and scalable e-commerce platform, ready to deliver a seamless online furniture shopping experience.