

Day 6 – Deployment Preparation And Staging Environment Setup

Comforty Deployment & Testing Workflow

Step 1: Deploying Comforty on Vercel

- Connected the Comforty **GitHub repository** to Vercel for automatic deployments.
- Configured **environment variables** for Sanity, Stripe, ShipEngine, and Clerk authentication.
- Used **Vercel Edge Functions** for improved performance and faster response times.

Step 2: Running End-to-End Tests with Cypress

- Set up **Cypress E2E tests** to validate user authentication, checkout flow, and UI interactions.
- Tested **navigation, form submissions, and payment processing** to ensure a seamless user experience.
- Used **Cypress Dashboard** to monitor test results and detect potential UI or functional issues.

Step 3: Validating APIs with Postman

- Used **Postman** to test Sanity CMS API for product retrieval and real-time inventory updates.
- Verified **Stripe API** integration by simulating payments and checking webhook responses.
- Ensured **ShipEngine API** properly calculates shipping rates and generates labels without errors.

Step 4: Debugging & Fixing Issues

- Monitored **Vercel logs** to track API errors, build failures, and performance issues.
- Fixed **CORS issues**, API timeouts, and authentication errors through detailed debugging.
- Used **console logs, network requests, and Next.js error handling** to troubleshoot problems efficiently.

Step 5: Continuous Deployment & Monitoring

- Each code update triggers **automatic builds and deployments** via Vercel.
- Cypress tests run to catch regressions before pushing changes to production.

- Regularly check **performance analytics and uptime monitoring** to maintain a smooth shopping experience.

By following this structured approach, Comforty ensures a stable, fast, and reliable shopping platform for users. 🚀

The screenshot displays the Vercel dashboard for a project named '24-hour-hackathon-2tc7'. The interface is dark-themed and includes a navigation bar with links like 'Project', 'Deployments', 'Analytics', and 'Speed Insights'. The main section is titled '24-hour-hackathon-2tc7' and features buttons for 'Repository', 'Usage', 'Domains', and 'Visit'. Below this, the 'Production Deployment' section is active, showing a deployment status of 'Ready' and a preview of the 'Comforty' website. The website preview shows a landing page with the text 'Welcome to Comforty' and 'Best Furniture Collection For Your Interior'. The deployment details on the right indicate it was created 20 minutes ago by 'ZAHEER-ALI-github-Account' and is linked to the 'main' branch. The Windows taskbar at the bottom shows the time as 4:20 PM on 2/8/2025.

