

DAY 6 - DEPLOYMENT PREPARATION AND STAGING ENVIRONMENT SETUP

Deployment Strategy Planning: I started deployment by checking each and every error in my project using NPM RUN BUILD

Environment Variable Configuration: I configure my Environmental variable in vercel by adding into vercel project

The staging environment was configured to mirror the production setup with

Frontend: Next.js (React)

Backend API: Next.js API Routes (/api/cart, /api/user)

Database: Sanity CMS (Product & User Data)

Authentication: Custom user authentication stored in Sanity

Storage: Local storage for temporary cart data

Testing accounts were created to simulate user actions such as adding products to the cart, checking out, and handling authentication.

Staging Environment Testing

Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status	Severity	Assigned To	Remarks
TC001	Validate product listing page	Open product page > Verify product details	Products should be displayed correctly	Products displayed as expected	Passed	Low	-	No issues found
TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	-	Handled gracefully
TC003	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates correctly	Passed	High	-	Works as expected
TC004	Ensure mobile responsiveness	Resize browser window > Check layout	Layout adjusts properly	Responsive layout working as intended	Passed	Medium	-	Test successful
TC005	Test add-to-cart authentication	Click "Add to Cart" while logged out	Redirect to login/signup page	Redirects correctly	Passed	High	-	Implemented as required
TC006	Validate checkout process	Add items > Go to checkout	Items, totals, and payment displayed	Checkout page shows correct data	Passed	High	-	Works as expected

Bug Report & Fixes

Bug ID	Issue Description	Steps to Reproduce	Expected Result	Actual Result	Status	Severity	Fix Details
BUG-001	API fails if product ID is missing	Add product without ID > Fetch cart	API should return error response	API crashes	<input checked="" type="checkbox"/> Fixed	Critical	Added validation for missing ID
BUG-002	Incorrect tax calculation in checkout	Add multiple products > Checkout	Correct tax should be displayed	Tax calculated incorrectly	<input checked="" type="checkbox"/> Fixed	High	Adjusted tax calculation logic