

HACKATHON 3

Day 6 - Deployment Preparation and Staging Environment Setup

Objective:

- Preparing your marketplace for deployment by setting up;
- a staging environment,
- Configuring hosting platforms, and,
- Ensuring readiness for a customer facing application.

Steps for Implementation:

Step 1: Hosting Platform Setup

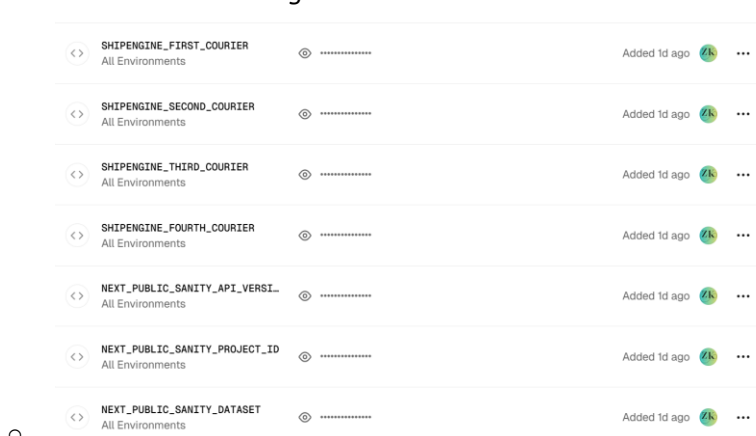
Deployment Process

Platform:

The project is deployed using Vercel, a platform optimized for Next.js applications, offering seamless integration and fast deployments.

Steps Followed:

1. **Repository Connection:**
 - Linked the GitHub repository to Vercel for automatic deployment.
 - [Hekto](#)
2. **Configuration:**
 - Verified the framework preset as Next.js.
 - Configured the build command (`npm run build`) and ensured the output directory is `.next`.
3. **Environment Variables:**
 - Added all necessary environment variables through the Vercel dashboard to ensure secure data handling.



<>	SHIPENGINE_FIRST_COURIER All Environments	Ⓢ *****	Added 1d ago	🟢	...
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<>	SHIPENGINE_FOURTH_COURIER All Environments	Ⓢ *****	Added 1d ago	🟢	...
<>	NEXT_PUBLIC_SANITY_API_VERSI... All Environments	Ⓢ *****	Added 1d ago	🟢	...
<>	NEXT_PUBLIC_SANITY_PROJECT_ID All Environments	Ⓢ *****	Added 1d ago	🟢	...
<>	NEXT_PUBLIC_SANITY_DATASET All Environments	Ⓢ *****	Added 1d ago	🟢	...

4. Deployment:

- Completed the deployment process, resulting in a live URL provided by Vercel.

```
File Edit Selection View ...
```

EXPLORER

- TEMPLATE-4
 - .next
 - node_modules
 - public
 - src
 - .env
 - .env.local
 - .eslintrc.json
 - .gitignore
 - data.ts
 - eslint.config.mjs
 - extra.ts
 - generateTestingReport.js U
 - next-env.d.ts
 - next.config.ts
 - package-lock.json M
 - package.json M
 - postcss.config.mjs
 - README.md
 - sanity.cli.ts
 - sanity.config.ts
 - tailwind.config.ts
 - testing-report.csv U
 - testing-report.pdf U
 - tsconfig.json
 - type.ts

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS CODE REFERENCE LOG

```
Creating an optimized production build ...
✓ Compiled successfully
  Skipping linting
✓ Checking validity of types
✓ Collecting page data
✓ Generating static pages (29/29)
✓ Collecting build traces
✓ Finalizing page optimization
```

Route (app)	Size	First Load JS
o /	2.31 kB	164 kB
o /_not-found	990 B	107 kB
o /about	1.23 kB	121 kB
o /account	1.92 kB	116 kB
f /api/product	150 B	106 kB
o /api/shipengine	2.05 kB	132 kB
f /api/shipengine/get-rates	150 B	106 kB
f /api/shipengine/label	150 B	106 kB
f /api/shipengine/tracking/[labelId]	150 B	106 kB
o /blog	2.63 kB	122 kB
o /cart	1.71 kB	132 kB
o /checkout	2.18 kB	116 kB
o /contact-us	2.55 kB	122 kB
o /createaccount	2.1 kB	116 kB
o /faq	1.97 kB	116 kB
o /featuredproducts	1.94 kB	161 kB
o /forgetpassword	1.9 kB	116 kB
o /latestproducts	1.96 kB	153 kB
o /login	1.61 kB	113 kB
o /ordercompleted	2.18 kB	122 kB
f /productdetail/[id]	1.47 kB	160 kB
o /productlist	3 kB	159 kB
o /products	553 B	162 kB
o /shoplist	1.23 kB	121 kB
o /signup	1.52 kB	116 kB
o /studio/[...tool]	1.29 MB	1.43 MB
o /tracking	1.34 kB	128 kB
o /trendingproducts	1.55 kB	160 kB
o /wishlist	998 B	131 kB
+ First Load JS shared by all	106 kB	
chunks/1517-501cef8db8d71f74.js	50.6 kB	
chunks/4bd1b696-062c2cbc74715301.js	53 kB	
other shared chunks (total)	2.33 kB	

o (Static) prerendered as static content
f (Dynamic) server-rendered on demand

OUTLINE

Result:

The project is now live and fully functional, with continuous deployment enabled for every new commit.













Step 2: Configure Environment Variables

1. Create a .env File:

Include sensitive variables like API keys and tokens.

```
NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id
NEXT_PUBLIC_SANITY_DATASET=production
API_KEY=your_api_key
```

2. Upload Variables to Hosting Platform:

	NEXT_PUBLIC_SANITY_API_VERSI... All Environments		Added 1d ago  ...
	NEXT_PUBLIC_SANITY_PROJECT_ID All Environments		Added 1d ago  ...
	NEXT_PUBLIC_SANITY_DATASET All Environments		Added 1d ago  ...
	SANITY_API_TOKEN All Environments		Added 1d ago  ...

Step 3: Deploy to Staging

The screenshot shows the VS Code interface with the Explorer, Terminal, and Output panels. The Explorer panel on the left shows the project structure for 'TEMPLATE-4', including files like .next, node_modules, public, src, .env, .env.local, .eslintrc.json, .gitignore, data.ts, eslint.config.mjs, extra.ts, generateTestingReport.js, next-env.d.ts, next.config.ts, package-lock.json, package.json, postcss.config.mjs, README.md, sanity.cli.ts, sanity.config.ts, tailwind.config.ts, testing-report.csv, testing-report.pdf, tsconfig.json, and type.ts. The Terminal panel on the right shows the output of the production build, which was successful. Below the terminal output, a table provides a detailed breakdown of the application's route sizes and first load JS.

Creating an optimized production build ...

- ✓ Compiled successfully
- Skipping linting
- ✓ Checking validity of types
- ✓ Collecting page data
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f (Dynamic) server-rendered on demand

Step 4: Staging Environment Testing

1. Testing Types:

- Functional Testing: Verify all features, such as product listing, search, and cart operations.

The screenshot displays the Hekto e-commerce website interface. The top navigation bar includes the site name 'Hekto', a search bar, and links for Home, Products, Pages, Blog, Shop, Contact, Cart, and Wishlist. The main content area features a 'Featured Products' section with four chairs, a 'Latest Products' section with four chairs, and a 'Trending Products' section with four chairs. A detailed product view for the 'Leisure Sofa Chair Set' is shown, featuring a large image of a pink armchair, its description, price (\$1800), discount (18%), stock level (6), and an 'Add to Cart' button. Below this, a 'Featured Products' section displays four chairs with their respective descriptions and prices. The bottom section shows the 'Cart' with four items: 'Luxury Flower Shell Sofa Chair' (\$2500.00), 'Matilda Velvet Chair - Pink' (\$600.00), 'Leisure Sofa Chair Set' (\$1800.00), and 'Liberty Wood 6' Floating Entertainment Center' (\$1000.00). A 'Cart Totals' sidebar on the right shows the subtotal (\$6000.00), shipping (\$15.00), and total (\$6015.00), with buttons for 'Proceed To Checkout' and 'Continue Shopping'.

Featured Products

Latest Products

Trending Products

Hekto What are you looking for? Home Products Pages Blog Shop Contact Cart Wishlist

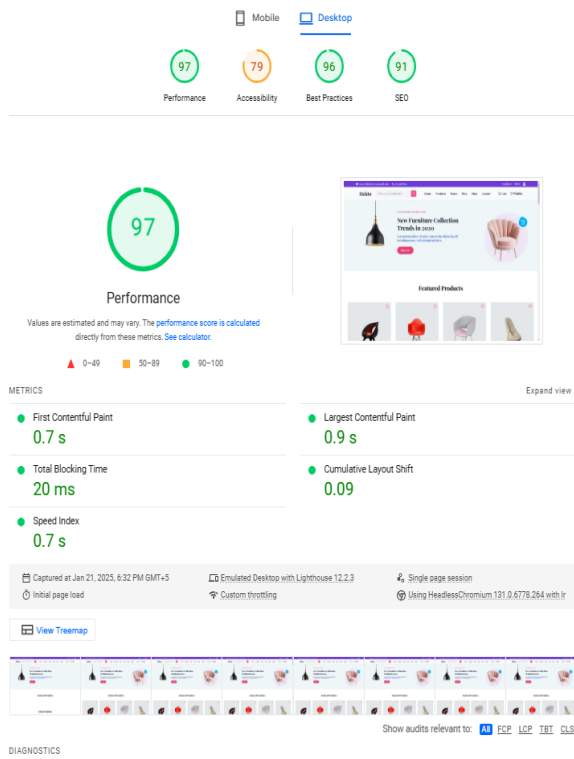
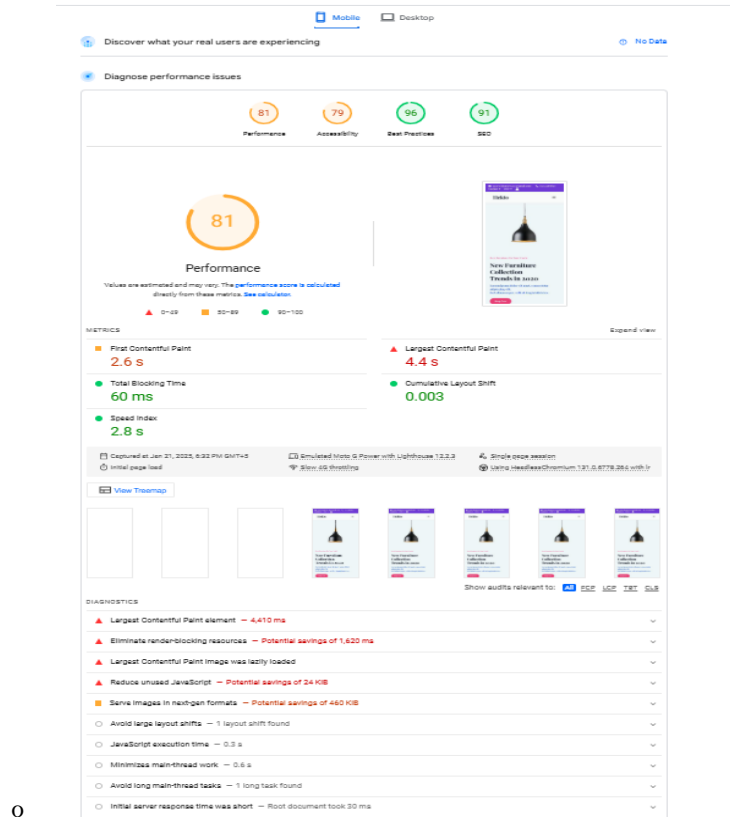
Leisure Sofa Chair Set
A comfortable set of chairs with soft cushions for relaxation.
\$1800
Discount: 18%
Stock Level: 6
[Add to Cart](#)

Featured Products

Cart

Cart Totals
Subtotal: \$6000.00
Shipping: \$15.00
Total: \$6015.00
[Proceed To Checkout](#)
[Continue Shopping](#)

- o *Performance Testing: Use Lighthouse or GTmetrix to analyze speed and responsiveness.*



3. Test Case Reporting:

- Document all test cases in a CSV file with fields like Test Case ID, Description, Steps, Expected Result, Actual Result, Status, and Remarks.

For example:

Test Case Id	Description	Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
TC001	Verify login functionality	1. Open login page 2. Enter valid credentials 3. Click 'Login'	User successfully logged in	User successfully logged in	Passed	Low	N/A	Test passed as expected.
TC002	Test invalid credentials	1. Open login page 2. Enter invalid credentials 3. Click 'Login'	Show Error Message, Invalid Credentials	Error message displayed	Passed	Low	John Doe	Works as Expected
TC003	Validate cart functionality	1. Add product to cart 2. View cart	Product appears in the cart	Product appears in the cart	Passed	Low	N/A	Works as expected.
TC004	Test checkout flow	1. Add product to cart 2. Proceed to checkout 3. Enter payment details	Order placed successfully	Order placed successfully	Passed	Low	Jane Smith	Work as expected

Checklist for Day 6:

Deployment Preparation: ✓

Staging Environment Testing: ✓

Documentation: ✓

Form Submission: ✓

Final Review: ✓