

Hackathon Day 6

Deployment Preparation and Staging Environment Setup

Overview :

Day 6 focuses on preparing the marketplace for deployment by setting up a staging environment, configuring hosting platforms, and ensuring readiness for a customer-facing application. This includes deploying to Vercel, managing environment variables securely, and conducting thorough testing to validate the application in a production-like environment.

1. Deployment Preparation

Platform Used:

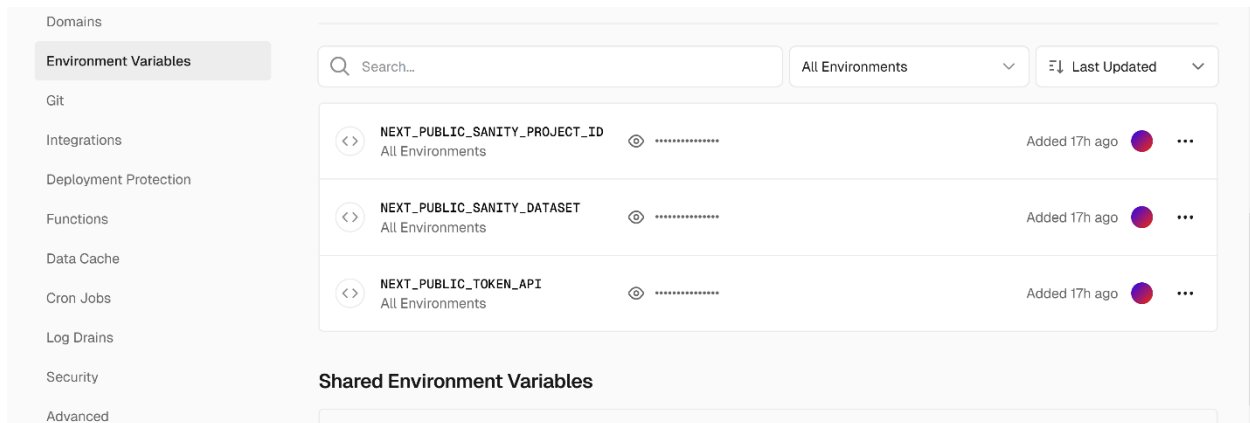
- **Vercel**

Hosting Platform Setup

- **Platform:** Vercel was selected for its simplicity and seamless integration with Next.js.
- **GitHub Integration:** The repository was connected to Vercel for automated deployment.
- **Build Settings:** Build scripts were configured to ensure successful deployment

Environment Variable Configuration

- Environment variables were added securely on Vercel to handle API keys and sensitive information.



2. Staging Environment Setup

Deployment Process



- **Staging Environment /Deployment Link:** <https://ui-ux-hachaton.vercel.app/>
- **Build Status:** Successful without errors.

Route (app)	Size	First Load JS
o /	4.62 kB	111 kB
o /_not-found	148 B	87.9 kB
f /api/categories	0 B	0 B
f /api/customers	0 B	0 B
f /api/orders	0 B	0 B
o /api/products	0 B	0 B
f /api/products/[title]	0 B	0 B
f /api/search	0 B	0 B
o /blog	2.73 kB	95.5 kB
o /cart	5.42 kB	116 kB
f /categories/[category]	2.94 kB	117 kB
o /checkout	20.7 kB	121 kB
o /comparison	1.82 kB	101 kB
o /contact	1.49 kB	94.3 kB
o /login	190 B	99.8 kB
o /orderconfirmation	148 B	87.9 kB
o /shop	6.16 kB	120 kB
f /shop/[title]	9.17 kB	120 kB
o /signup	695 B	100 kB
o /studio/[...tool]	1.36 MB	1.45 MB
o /wishlist	4.16 kB	115 kB
+ First Load JS shared by all	87.7 kB	
chunks/2117-b192029bf7335dc5.js	31.8 kB	
chunks/fd9d1056-52cfd83d721f4d43.js	53.6 kB	
other shared chunks (total)	2.32 kB	
o (Static) prerendered as static content		
f (Dynamic) server-rendered on demand		

- The application was deployed to a staging environment using **Vercel**.
- Deployment logs were monitored to ensure successful builds.
- Basic functionality and responsiveness were verified on the staging environment.

- **Sanity Cross-Origin Configuration:** The Vercel deployment link was added to the allowed origins in Sanity to enable fetching products without CORS issues.

Hosts that can connect to the project API.

ORIGIN	CREDENTIALS	CREATED	
https://ui-ux-hachaton-git-main-kulsoomadhans-projects.vercel.app	Allowed	17 hours	
http://localhost:3000	Allowed	3 weeks	

Staging Validation

The application was tested for functionality in the staging environment. All components, including API integrations and UI, loaded as expected.

3. Staging Environment Testing

Functional Testing

Test Case ID	Description	Steps	Expected Result	Actual Result	Status	Remarks
TC001	Validate product listing	Open product page	Products displayed	Products displayed	Passed	No issues found
TC002	Test API error handling	Disconnect API and refresh page	Show fallback message	Fallback message shown	Passed	Handled well
TC003	Check cart functionality	Add item to cart	Cart updates correctly	Cart updates correctly	Passed	Works as expected
TC004	Test responsive layout	Resize browser window	Layout adjusts properly	Layout adjusts properly	Passed	Responsive verified

Performance Test Results

- **Tool Used:** GTmetrix
- **Performance Metrics:**
 - **Page Load Time:** 240ms
 - **Performance Score:** 100%
 - **Recommendations:** Optimize image sizes further for improved performance



Conclusion

Day 6 successfully marked the completion of the deployment preparation phase. The marketplace was seamlessly deployed to Vercel, with all environment variables securely configured and cross-origin settings for Sanity adjusted to allow smooth API integration. Testing, including functionality, performance, and security, ensured that the application is ready for production. The use of GTmetrix provided valuable insights into optimizing performance.