Day 6 - Deployment and Staging Environment Setup

Objective

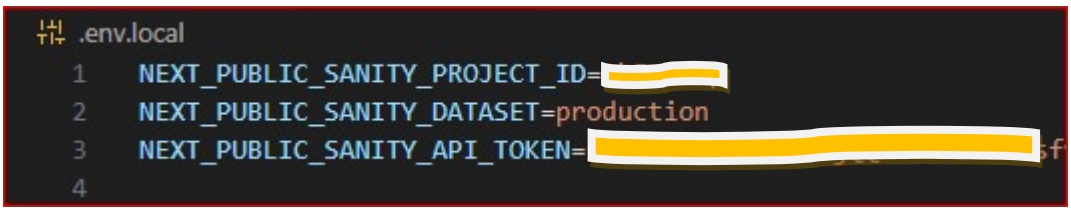
Prepare and deploy a marketplace project in a staging environment, ensuring that it works seamlessly in a production-like environment.

Deployment Strategy

- Platform Choice: I chose Vercel for my project deployment.
- Integration: Vercel supports easy Git integration for automatic deployments.
- Fast Builds: Optimized build processes for quick deployment.
- Global CDN: Ensures fast loading with servers worldwide.
- Environment Variables: Securely manage sensitive data.
- Preview Deployments: Generates preview links for testing changes.

env.local File Security

1. Stores sensitive data like API keys and credentials.
2. Excluded from version control using .gitignore.
3. Used for local development to avoid exposing data in production.
4. Configures environment-specific settings.
5. Protected with access control to prevent unauthorized access.
6. Avoids hardcoding sensitive data in the code.



Check Workflows

I checked the entire flow of my website and manually verified each **component**. This included testing the products listing page, card functionality, dynamic pages, and the add-to-cart functionality.

Key Points:

- Products listing page checked – Working properly
- Card functionality tested – Working properly
- Dynamic page functionality verified – Working properly
- Add to cart functionality tested – Working properly

NPM Run Build

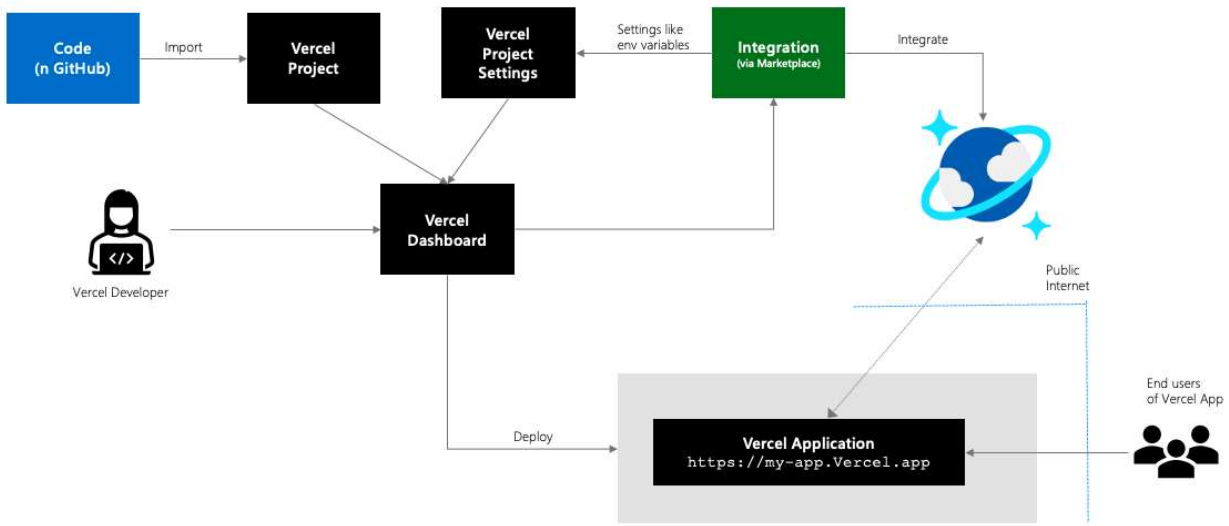
Before deploying the project on Vercel, I ran npm run build to check for any errors. Several errors were found and resolved.

Key Points:

- Ran npm run build – Errors detected
- Fixed the errors – Working properly

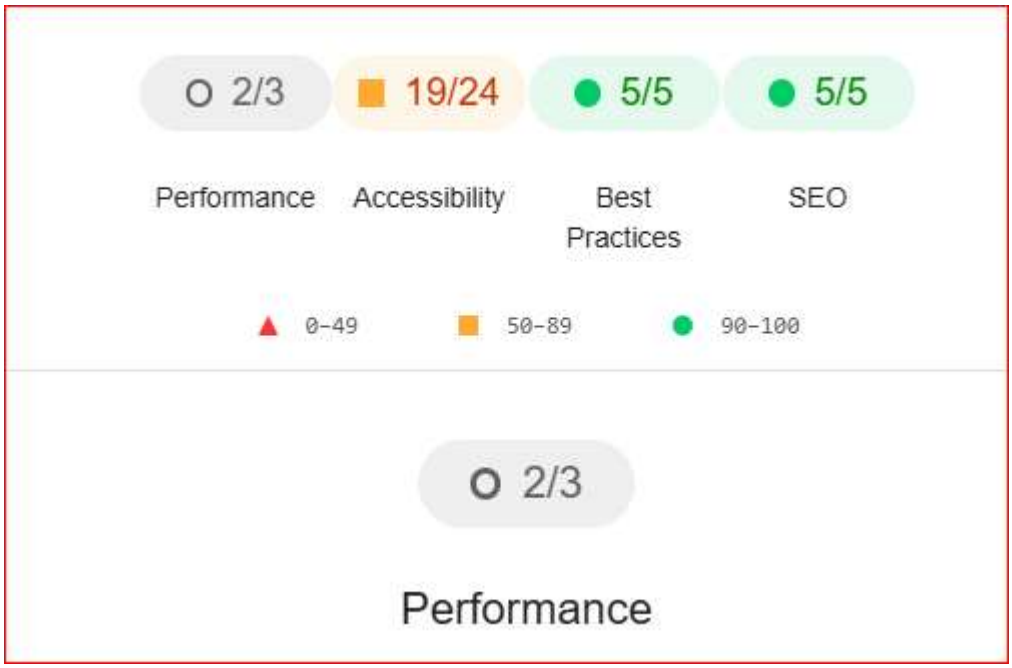
GitHub Repository

I cleaned up the errors in my project and pushed it to GitHub so that I could easily upload it to Vercel from there. After deployment, I obtained the link to my website.



Performance Testing

After deploying the website on **Vercel,** I checked the website's performance using the Lighthouse tool. The tool provided valuable insights into the performance, accessibility, SEO, and best practices. Based on the results, I made optimizations to improve load times and overall performance.



Website Check View

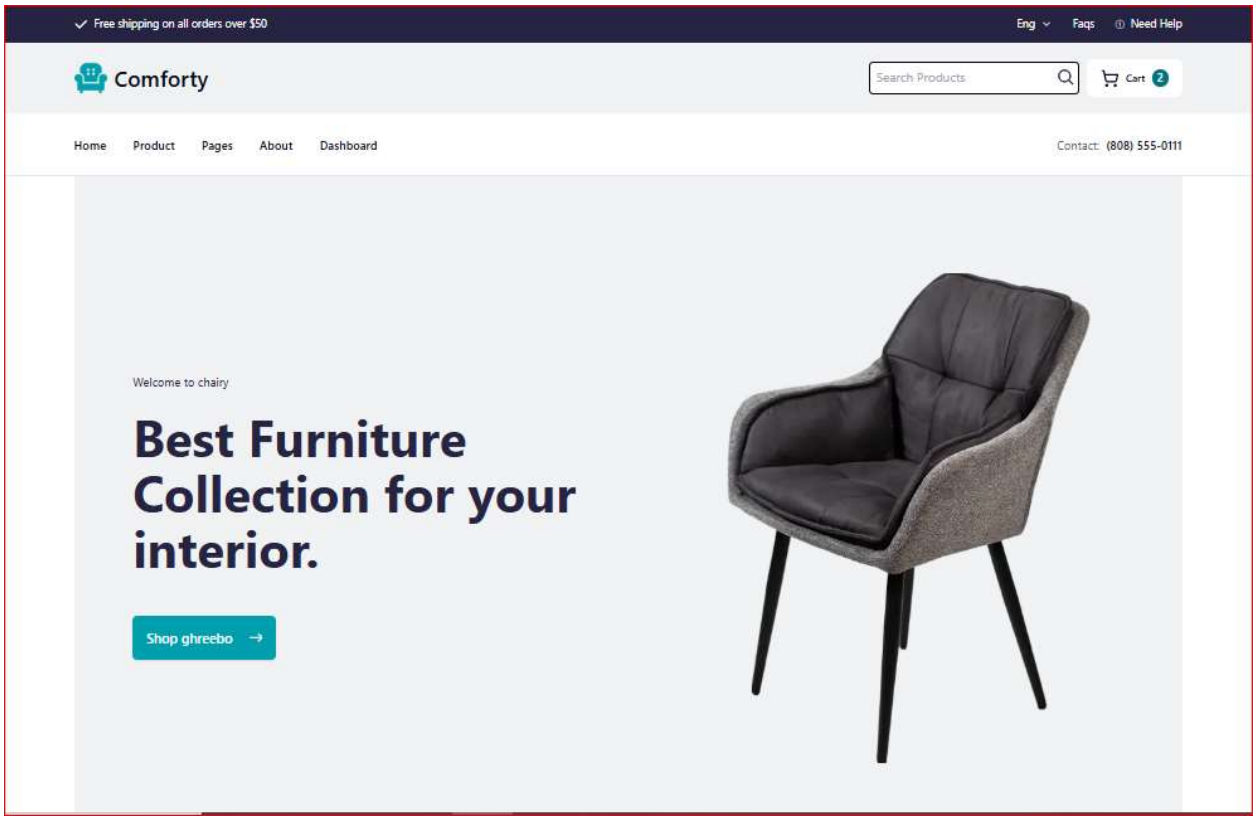
My website is successfully displayed on the screen with full responsiveness. It works accurately across all browsers, ensuring a consistent user experience.

Key Points:

Successfully displayed on screen with proper responsiveness

Tested across multiple browsers

Achieved accurate and consistent results everywhere



README.md

This file contains all the information about my project, including planning, workflow, and key steps. Below are the main points highlighted from the project:

Key Points:

Project Overview:

- Explained the project's purpose and features.
- Mentioned tools and technologies used.
- Deployment Strategy:
- Chose Vercel for deployment due to simplicity and efficiency.
- Highlighted key features like serverless deployment and production setup.
- Environment Variables:
- Used env.local to manage sensitive data securely.
- Protected API keys and configurations.
- Workflow and Testing:
- Verified all components like product listing, dynamic pages, and cart functionality manually.
- Used Lighthouse tool for performance testing post-deployment.
- Responsiveness:
- Ensured website's responsiveness across devices and browsers.
- Tested accurate rendering on different screen sizes.
- Build Process:
- Resolved errors during the npm run build process for smooth deployment.