

Day 6 - Deployment Preparation and Staging Environment Setup

Hosting platform:

- Linked GitHub repository to the hosting platform.
- Use platforms like Vercel for quick deployment.

Configuration of Environment Variables:

- Created .env.local file to save sensitive data and API keys securely.
- Used the hosting platform's dashboard to securely add environment variables.

Staging Process:

- Deployed the application to a staging environment through the hosting platform.
- Ensures the build process completes without errors.
- Verified basic functionality in the staging environment.

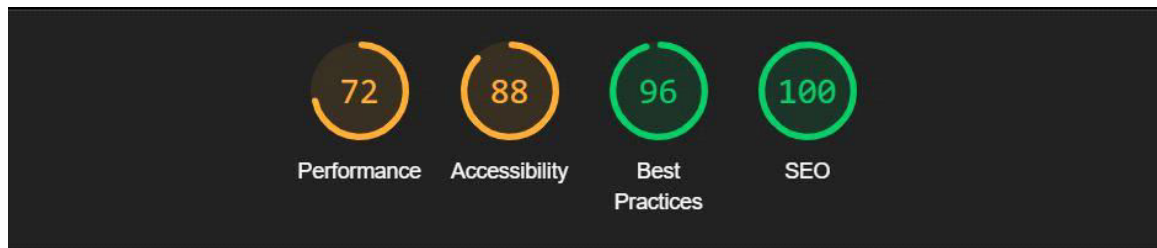
Staging Environment Testing:

- Verified all features, such as product listing, filter, and cart operations.
- Uses Lighthouse analyze speed and responsiveness.
- Validate input fields and secure API communications.

- **Test Case Report**

	A	B	C	D	E	F	G
1	Test Case ID	Description	Steps	Expected Result	Actual Result	Status	Remarks
2	TC01	Validate product listing	Load homepage, verify displayed products	Products load and display correctly	Products load as expected	Passed	Displayed perfectly
3	TC02	Test search functionality	Enter query in search bar, check results	Correct results matching query	query not matches result	skipped	---
4	TC03	Add product to cart	Click "Add to Cart" on a product	Product is added to cart	Product added	Passed	successfully added
5	TC03	Delete product from cart	Click delete icon	Product is deleted from cart	Product deleted	Passed	successfully deleted
6	TC04	Add product to wishlist	Click wishlist icon	Product is added to wishlist	Product added	Passed	added successfully
7	TC05	Delete product from wishlist	Click delete icon	Product is deleted from wishlist	Product deleted	Passed	deleted successfully
8	TC06	Dynamic routing for product	Click on a product	Individual product page loads and open detailed page	Product detail page opens	Passed	details rendered greatfully
9	TC07	Api error handling	remove API and loads page	UI fallback display	UI fallback displayed	Passed	Handled perfectly
10	TC08	Input sanitization	Add required inputs in contact form	Invalid input data displays error message	error message displayed	Passed	perfect sanitization
11	TC09	Filter products	Set filter on product listing page	Products filtered according to category	Products are filtered based on category	Passed	sucessfull
12	TC10	Fallback UI for offline errors	Disconnect wifi and loads product detail page	Fallback UI message display "You are offline"	message displayed as expected	Passed	message displayed sucessfully
13	TC11	Responsiveness on mobiles/tablets	uses tool browserstack	All components are responsive on both devices	Some components needs improvemnt	Failed	minor changes needed
14							

- **Performance Testing**



Conclusion:

The deployment preparation and staging environment setup are critical phases in the software development lifecycle. By following the outlined steps, including platform setup, environment variable configuration, deployment, and rigorous testing, the application is ensured to meet quality standards before production.