DAY 6 - DEPLOYMENT PREPARATION AND STAGING ENVIRONMENT SETUP

(Bandage E-Commerce)

Deployment Link: https://ui-ux-hackhathon-e-commerce.vercel.app/

Documents Link: https://github.com/usmannaseem23/Marketplace-Technical-Foundation-E-Commerce-Hackathon-2025/blob/main

CSV-Testing Report Link: https://github.com/usmannaseem23/CSV-Testing--Report-for-Hackathon/blob/main/README.md

Test Report:

CSV-Testing-Report

Test Cases

Below is the list of test cases for the application:

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

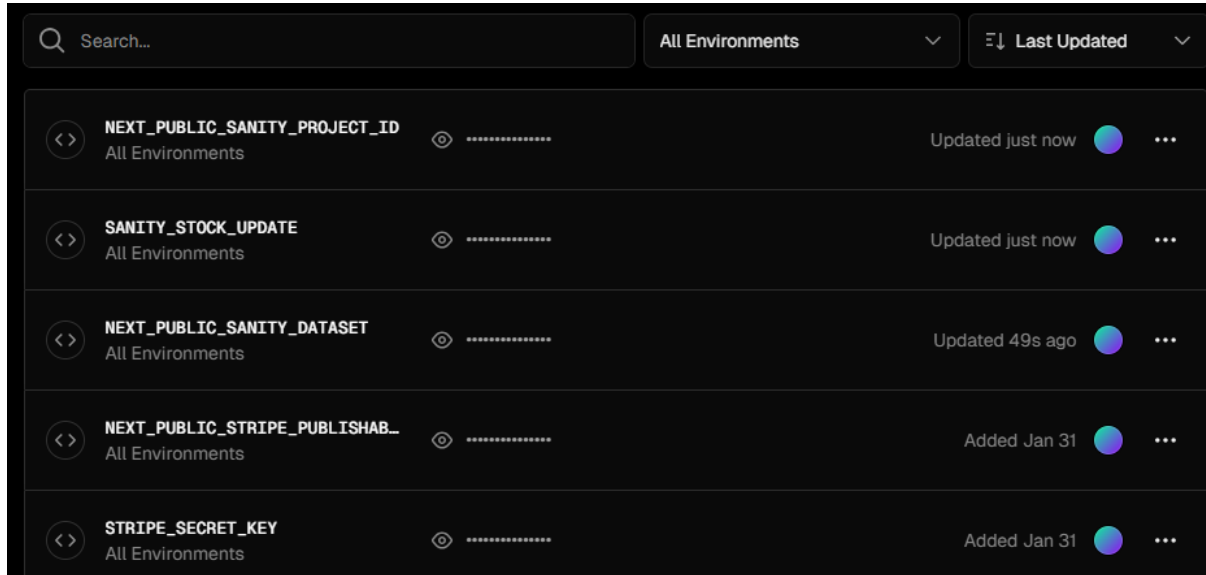## Configure Environment Variables:

1. Create a .env File:

Include sensitive variables like API keys and tokens

Add Environment Variables to Deployment

When deploying your application, ensure that the hosting environment is configured with the same variables as in your .env file.Below are the instructions for common platforms:

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Vercel:

1. Navigate to your project in the Vercel dashboard.
2. Go to Settings > Environment Variables.
3. Add variables one by one, specifying their names and values.

Checking Performance:

Performance Testing Reporting Link:

https://github.com/usmannaseem23/Performance-Testing-Report/edit/main/README.md

Desktop View Performance Testing

Performance Metrics:

- Performance Score: 97
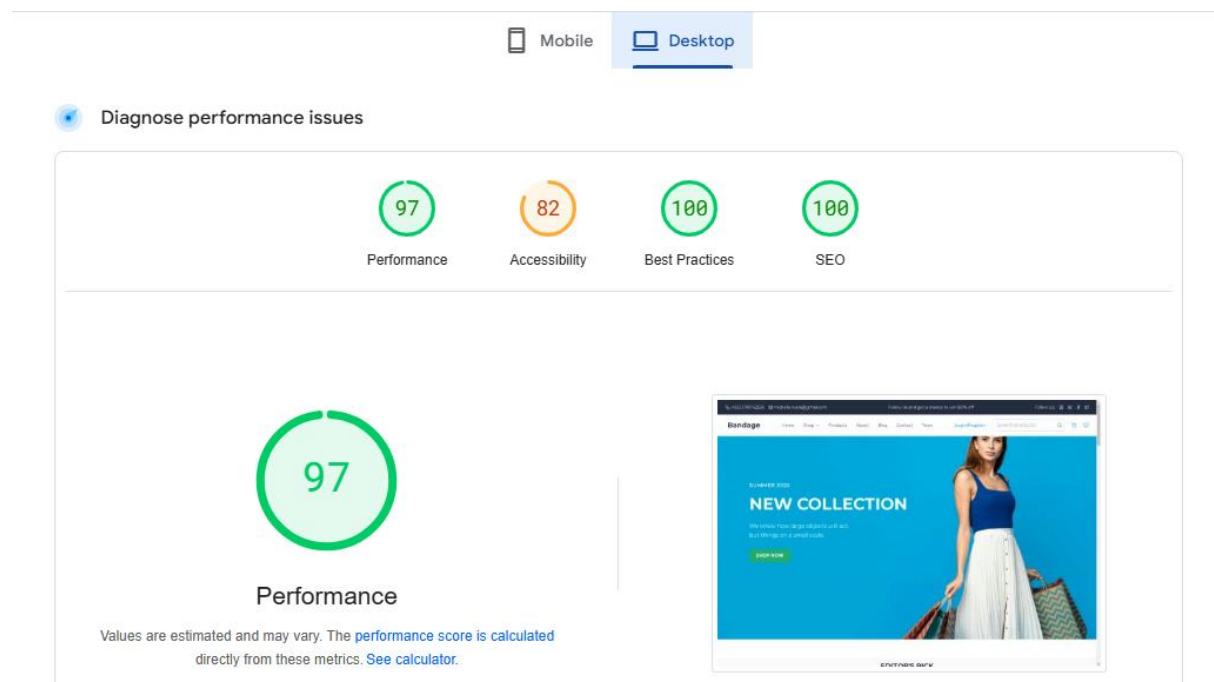- Accessibility: 82
- Best Practices: 100
- SEO: 100

Performance Summary:

1- Desktop performance is excellent with a score of 97.
2- Best Practices and SEO are perfect at 100.
3- Accessibility score is slightly lower at 82 and can be improved.

Areas of Improvement:

1- Enhance accessibility features to meet compliance standards.

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Desktop View Screenshot:

Mobile View Performance Testing

Performance Metrics:

- Performance Score: 78
- Accessibility: 85
- Best Practices: 96
- SEO: 92

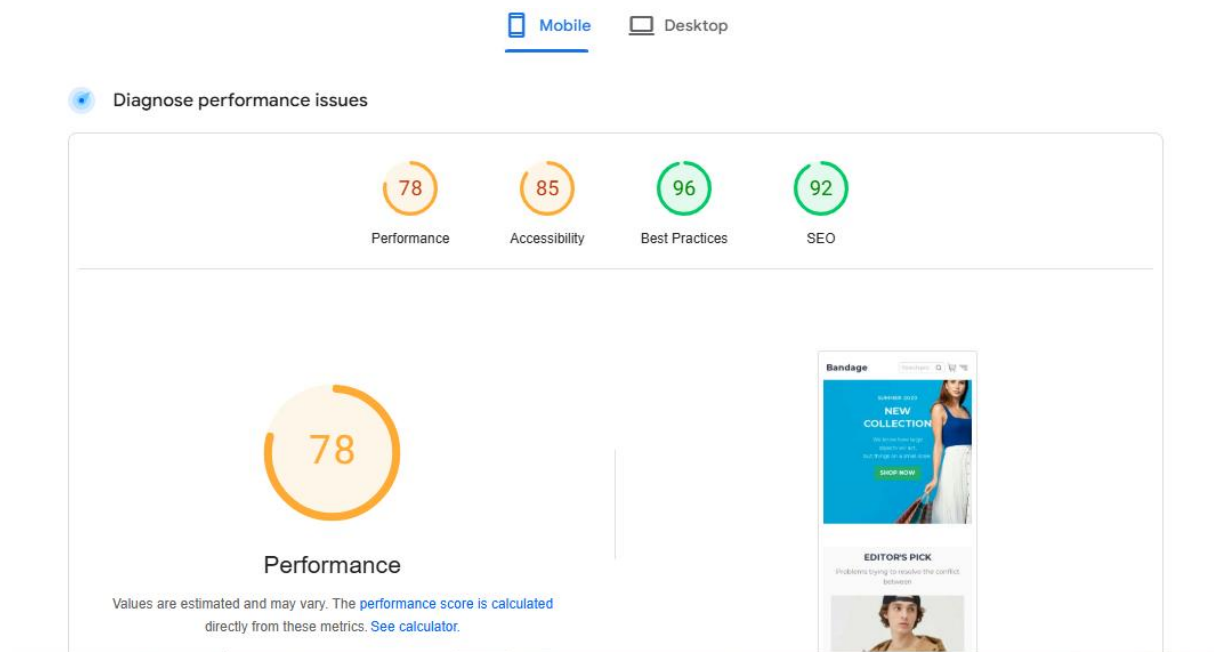## Performance Summary:

1- Overall mobile performance score is 78, which indicates there is room for improvement.
2- Accessibility is rated at 85, suggesting some minor enhancements are needed.
3- Best Practices and SEO are in excellent condition.

Areas of Improvement:

1- Optimize images and scripts to improve performance.
2 - Improve accessibility compliance.

Mobile View Screenshot:

These tests were conducted using PageSpeed Insights.

Testing Tool:
 1-Tool Used: PageSpeed Insights
 2-Tested Views: Mobile & Desktop
 3-Tested Parameters: Performance, Accessibility, Best Practices, and SEO

Further optimizations should focus on accessibility and performance improvements for mobile.

Your Next.js build looks **successful** with all static and dynamic routes generated correctly!

Quick Insights from Your Build:

✅ **Static pages (○) are pre-rendered** – These load super fast!
✅ **API routes (ƒ) are correctly set up** – No unnecessary payload, which is great!
✅ **Studio page (/studio/[[...tool]]) is large (1.25MB First Load JS)** – Maybe optimize if needed?
✅ **First Load JS is 87.6kB** – This is decent, but if needed, check bundle splitting for further
                                optimization.

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What's Next?

- ✅ **Test all routes** for expected behavior.
- ✅ **Analyze large pages** like `/studio/[[...tool]]` for potential optimizations.
- ✅ **Deploy and check performance** (already done).

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⊞ Compiled successfully
⊞ Linting and checking validity of types
⊞ Collecting page data
⊞ Generating static pages (25/25)
⊞ Collecting build traces
⊞ Finalizing page optimization

Route (app)                              Size      First Load JS
┌ o /                                    8.43 kB         220 kB
├ o /_not-found                          879 B          88.5 kB
├ o /about                               148 B           144 kB
├ ƒ /api/create-checkout-session         0 B             0 B
├ ƒ /api/order                           0 B             0 B
├ ƒ /api/review                          0 B             0 B
├ ƒ /api/saveOrder                       0 B             0 B
├ ƒ /api/send-email                      0 B             0 B
├ ƒ /api/updateStock                     0 B             0 B
├ o /blog                                1.99 kB         145 kB
├ o /cart                                2.03 kB         147 kB
├ o /checkout                            26.3 kB         171 kB
├ o /contact                             149 B           144 kB
├ o /generate-tracking                   2.83 kB         168 kB
├ o /pricing                             4.41 kB         145 kB
├ o /productList                         5.28 kB         219 kB
├ ƒ /productList/[id]                    4.93 kB         194 kB
├ o /products                            4.06 kB         186 kB
├ ƒ /products/[id]                       5.18 kB         198 kB
├ o /search                              5.16 kB         218 kB
├ o /studio/[[...tool]]                  1.25 MB        1.41 MB
├ o /success                             1.4 kB          89 kB
├ o /team                                1.69 kB         143 kB
├ o /tracking                            2.17 kB         168 kB
└ o /wishlist                            1.88 kB         156 kB
+ First Load JS shared by all            87.6 kB
  ├ chunks/7023-d5f27e49730bab0d.js      31.6 kB
  ├ chunks/fd9d1056-7535f46bd2d55943.js  53.6 kB
  └ other shared chunks (total)          2.37 kB


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

Checklist:

Deployment Preparation	Staging Environment Testing:	Documentation:	Form Submission:	Final Review:
✓	✓	✓	✓	✓

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