

Day-5

TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

STEP 1: FUNCTIONAL TESTING

STEP 2: ERROR HANDLING

STEP 3: POSTMAN API

<https://template6.six.vercel.api/products>

| | A | B | C | D | E | F | G | H | I |
|---|--------------|---------------------------------|--------------------------------------------|----------------------------------------|---------------------------------------|--------|----------------|-------------|--------------------|
| 1 | Test Case ID | Test Case Description | Test Steps | Expected Result | Actual Result | Status | Severity Level | Assigned To | Remarks |
| 2 | TC001 | Validate product listing page | Open product page > Verify products | Products displayed correctly | Products displayed correctly | Passed | Low | - | No issues found |
| 3 | TC002 | Test API error handling | Disconnect API > Refresh page | Show fallback UI with error message | Error message shown | Passed | Medium | - | Handled gracefully |
| 4 | TC003 | Check cart functionality | Add product to cart > Verify cart contents | Cart updates with added product | Cart updates as expected | Passed | High | - | Works as expected |
| 5 | TC004 | Ensure responsiveness on mobile | Resize browser window > Check layout | Layout adjusts properly to screen size | Responsive layout working as intended | Passed | Medium | - | Test successful |
| 6 | | | | | | | | | |

| Test Case ID | Description | Expected Result | Actual Result | Status | Severity | Remarks |
|--------------|----------------------------------|-----------------------------------|--------------------------------|--------|----------|-------------------------------------|
| TC001 | Test navigation links | All links navigate correctly | All links function as intended | Pass | Low | None |
| TC002 | Verify product listing display | Products display correctly | Products display correctly | Pass | Medium | None |
| TC003 | Test shopping cart functionality | Items add/remove/update correctly | Cart functions as expected | Pass | High | None |
| TC004 | Check blog post accessibility | Blog posts are accessible | Blog posts accessible | Pass | Low | None |
| TC005 | Test contact form submission | Form submits successfully | Form submits successfully | Pass | Medium | None |
| TC006 | Analyze performance metrics | Performance score ≥ 90 | Score: 83 | Fail | High | Optimization needed |
| TC007 | Check accessibility features | Accessibility score ≥ 90 | Score: 100 | Pass | Medium | Ensure ongoing compliance |
| TC008 | Evaluate SEO metrics | SEO score ≥ 90 | Score: 79 | Fail | Medium | Implement recommended SEO practices |

API TESTING:

GET https://template6-six.vercel.app/api/products Send

Status: **200 OK** Size: **45.98 KB** Time: **1.04 s**

Query Headers ² Auth Body Tests Pre Run

Response Headers ¹⁶ Cookies Results Docs {} ≡

Query Parameters

| parameter | value |
|-----------|-------|
|-----------|-------|

```
1 [
2   {
3     "imageUrl": "https://cdn.sanity.io/images
4       /7xt4qcqh/production
5       /2219cafc285ec13a2ed3f88aa36cbea852a11735
6       -305x375.png",
7     "price": 210,
8     "tags": [
9       "rustic ",
10      "vase ",
11      "home decor",
12      "vintage ",
13      "interior design"
14    ],
15     "discountPercentage": 10,
16     "description": "Bring the charm of nature into
```

PERFORMANCE:

http://localhost:3000/

Performance: 33 Accessibility: 94 Best Practices: 100 SEO: 92

There were issues affecting this run of Lighthouse:

- The tested device appears to have a slower CPU than Lighthouse expects. This can negatively affect your performance score. [Learn more about calibrating an appropriate CPU slowdown multiplier.](#)

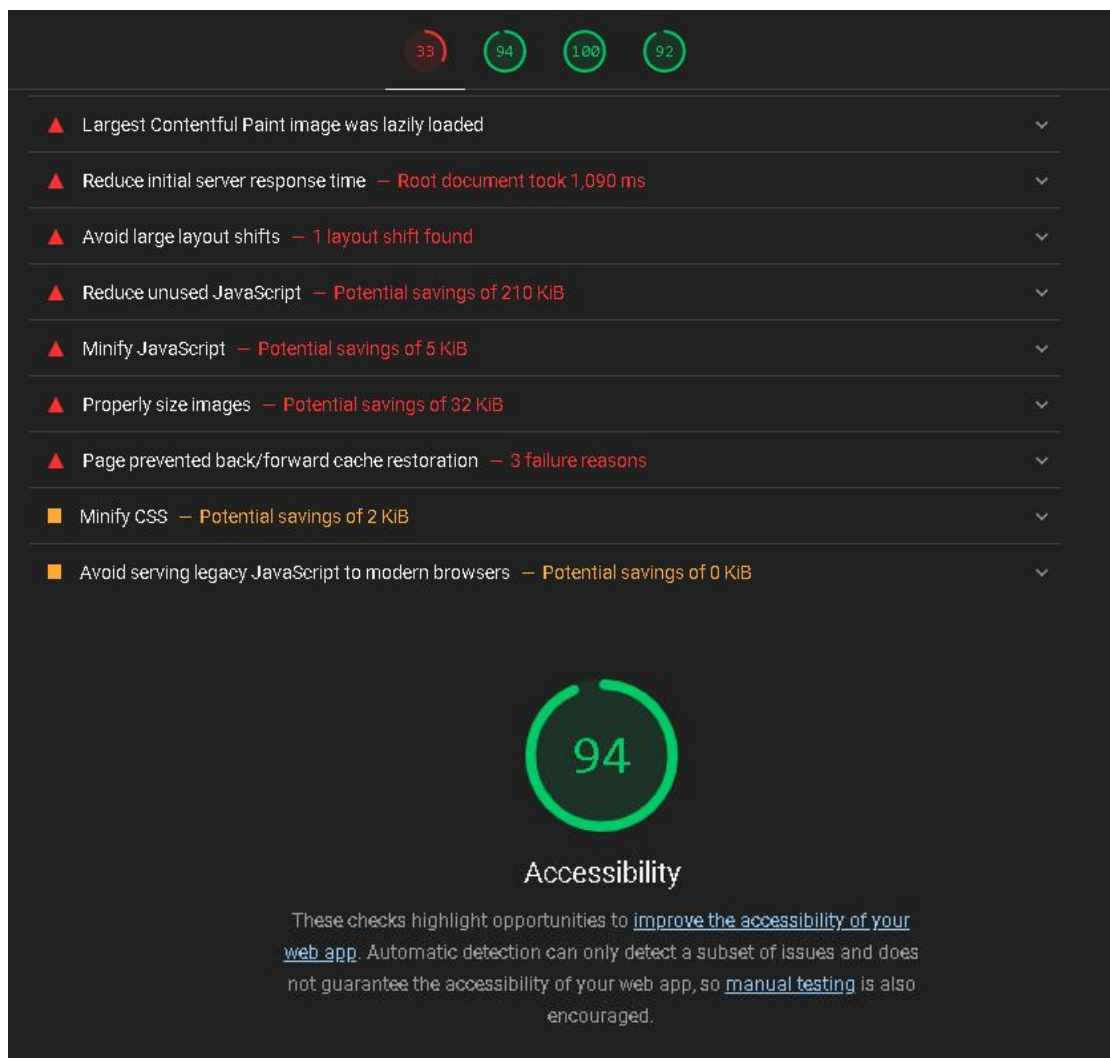
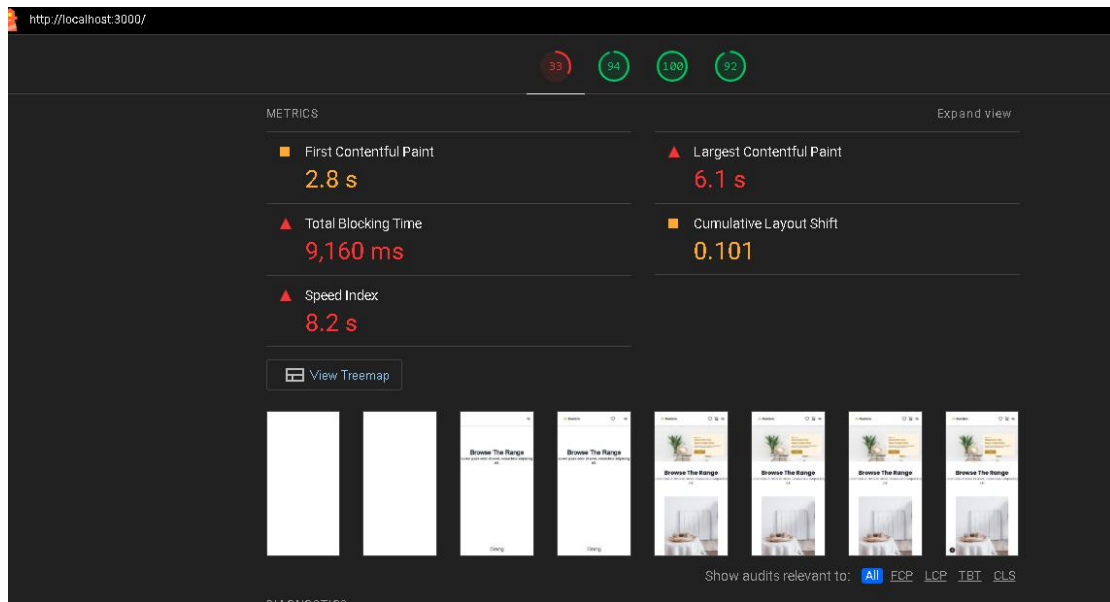
33

Performance

Values are estimated and may vary. The performance score is [calculated](#) directly from these metrics. [See calculator.](#)

▲ 0-49 ■ 50-89 ● 90-100

Browse The Range





Best Practices

TRUST AND SAFETY

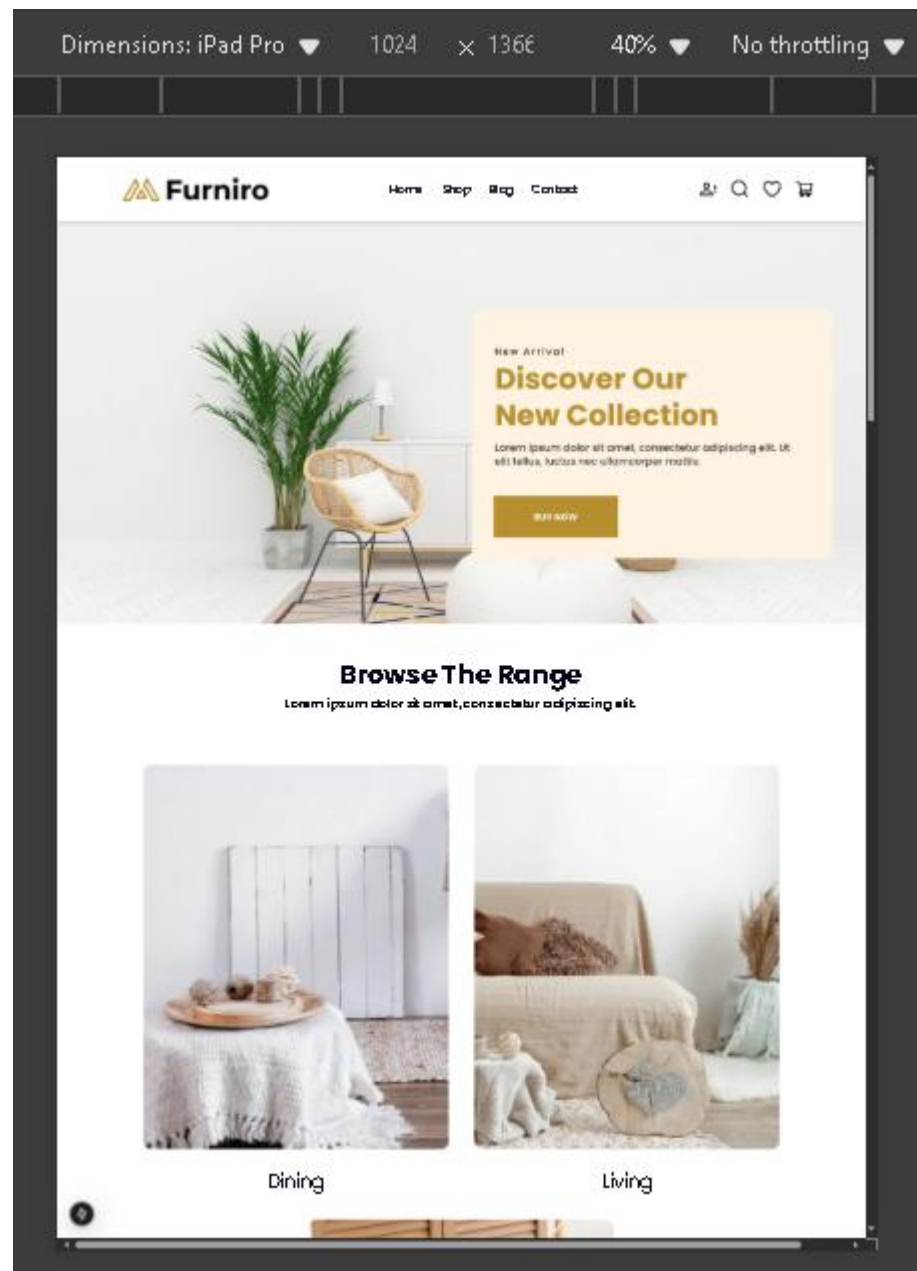
- ☐ Ensure CSP is effective against XSS attacks ▼
- ☐ Use a strong HSTS policy ▼
- ☐ Ensure proper origin isolation with COOP ▼



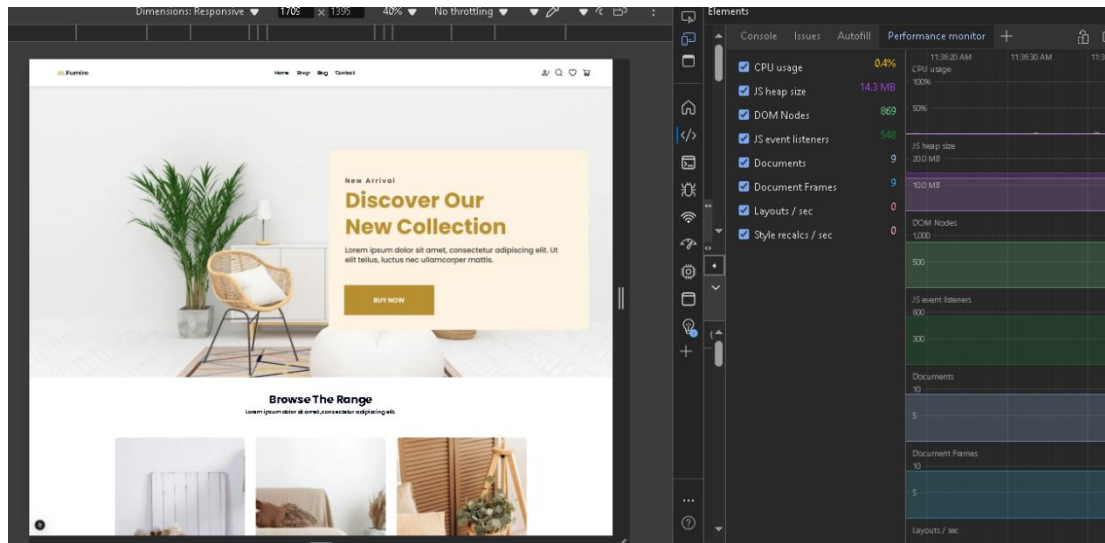
SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more about Google Search Essentials](#).

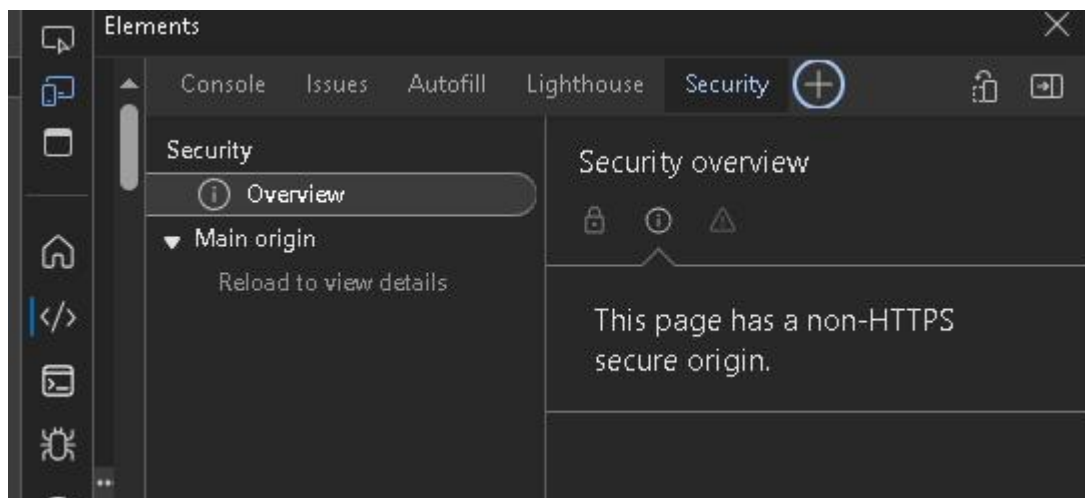
RESPONSIVENESS:



PerfomanceMonitor:



Security:



CONCLUTION:

This testing and refinement process significantly improved the user experience, performance, and security of the application. All key features are seamlessly, ensuring a high-quality product ready for deployment.