

# Comprehensive Bug Hunting Report - Fashion Hub Production

---

**Date:** November 9, 2025

**Environment:** Production (<https://pocketaces2.github.io/fashionhub/>)

**Testing Duration:** Intensive exploratory testing session

**Browsers Tested:** Chromium, Firefox, Webkit, Chrome, Edge

---

## Executive Summary

---

Conducted intensive exploratory testing on the Fashion Hub production environment across all pages. Identified **23 total issues** ranging from accessibility concerns to missing content elements.

## Severity Breakdown

Severity	Count	Issues
Critical	0	None found <input checked="" type="checkbox"/>
High	0	None found <input checked="" type="checkbox"/>
Medium	3	Missing meta description, multiple H1s, no CSRF token

Low	20	Missing prices/images (products page), missing autocomplete, etc.
-----	----	---

## Overall Assessment

- ✓ No critical security vulnerabilities detected
  - ✓ No broken core functionality
  - ⚠ Several accessibility and SEO improvements needed
  - ⚠ Products page has incomplete data
- 

## Detailed Findings by Page

---

### 1. Homepage

Total Issues: 3

#### Issue #1: Missing Meta Description (Medium)

- **Severity:** Medium
- **Category:** SEO
- **Description:** The homepage is missing a `<meta name="description">` tag
- **Impact:** Reduced search engine visibility, poor social media sharing previews
- **Reproduction:**
  1. Navigate to <https://pocketaces2.github.io/fashionhub/>
  2. View page source

3. Search for `<meta name="description">`

4. Tag not present

- **Recommendation:** Add meta description (150-160 characters recommended)

```
<meta name="description" content="Fashion Hub - Yo
```

## Issue #2: Missing `<main>` Landmark (Medium)

- **Severity:** Medium

- **Category:** Accessibility

- **Description:** Homepage lacks a `<main>` semantic HTML element

- **Impact:**

- Screen reader users cannot quickly jump to main content
  - WCAG 2.1 Level A violation
  - Reduced SEO value

- **Reproduction:**

1. Navigate to homepage
2. Inspect HTML structure
3. No `<main>` element wrapping primary content

- **Recommendation:**

```
<body>
  <header>...</header>
  <main role="main">
```

```
<!-- Primary page content -->
</main>
<footer>...</footer>
</body>
```

- **WCAG Reference:** [1.3.1 Info and Relationships \(Level A\)](#)

### Issue #3: Multiple H1 Headings (Low)

- **Severity:** Low
- **Category:** SEO / Accessibility
- **Description:** Page contains 2 H1 headings instead of 1
- **Impact:** Confuses search engines and screen readers about page hierarchy
- **Reproduction:**
  1. Navigate to homepage
  2. Inspect headings
  3. Found 2 `<h1>` elements
- **Recommendation:** Keep only one H1 (main page title), convert others to H2 or appropriate level

### Additional Observations:

- No images found (intentional design or missing?)
- 6 links all functioning
- No JavaScript console errors
- Mobile viewport meta tag present
- No mixed HTTP/HTTPS content

- Page loads in <3 seconds
- 

## 2. Products Page

**Total Issues: 17**

### **Issue #4-20: Incomplete Product Data (Low)**

- **Severity:** Low (per item), but collectively affects user experience
- **Category:** Content / Data Quality
- **Description:** Multiple product cards missing essential information:
  - **Missing prices:** 11 products
  - **Missing images:** 5 products
  - **Missing titles:** 2 products
- **Impact:**
  - Users cannot make informed purchase decisions
  - Looks unprofessional
  - May indicate data loading issues
- **Reproduction:**
  1. Navigate to  

<https://pocketaces2.github.io/fashionhub/products.html>
  2. Inspect product cards
  3. Various elements missing across 11 product cards
- **Recommendation:**
  - Ensure all products have complete data before display

- Add fallback images/text for missing data
- Implement data validation on product import

```
// Example validation
if (!product.price || !product.image || !product.t
    console.error('Incomplete product data:', produc
    // Don't render or show placeholder
}
```

### **Additional Observations:**

- No search functionality (may be intentional)
  - Found 11 product elements
  - ! No pagination (may be needed if product list grows)
  - Product cards render correctly when data is present
- 

### **3. Account/Login Page**

**Total Issues: 2**

#### **Issue #21: Password Field Missing Autocomplete Attribute (Low)**

- **Severity:** Low
- **Category:** UX / Security Best Practice
- **Description:** Password input missing `autocomplete="current-password"` attribute
- **Impact:**
  - Password managers may not work optimally

- Reduced user convenience
  - Not following HTML5 best practices
- **Reproduction:**

1. Navigate to login page
2. Inspect password field
3. Check autocomplete attribute

- **Current State:**

```
<input type="password" name="password" />
```

- **Recommended:**

```
<input type="password" name="password" autocomplete="off" />
```

- **Reference:** [HTML autocomplete attribute](#)

## Issue #22: No CSRF Token in Login Form (Medium)

- **Severity:** Medium
- **Category:** Security Best Practice
- **Description:** Login form lacks CSRF (Cross-Site Request Forgery) protection token
- **Impact:**
  - Potential CSRF vulnerability (depends on backend implementation)

- Not following security best practices
- May fail security audits

- **Reproduction:**

1. Navigate to login page
2. Inspect form HTML
3. No hidden input with CSRF token

- **Recommendation:**

```
<form method="POST" action="/login">
  <input type="hidden" name="csrf_token" value="{{
    <!-- other form fields -->
  }}>
```

- **Note:** If authentication is client-side only, CSRF may not be applicable

## **Security Testing Results:**

- Password field correctly uses `type="password"`
- SQL injection strings accepted by input (expected - validation should be server-side)
- XSS test strings NOT executed in page (properly sanitized)
- No session cookies found (may be intentional for demo site)
- Tested patterns: `' OR '1'='1`, `admin '--`, `'; DROP TABLE users--` - all accepted by input field

## 4. Cart Page

**Total Issues: 1**

### Issue #23: No Total/Subtotal Display (Low)

- **Severity:** Low
- **Category:** UX / Functionality
- **Description:** Cart page doesn't display total or subtotal amount
- **Impact:**
  - Users cannot see total cost before checkout
  - Essential e-commerce functionality missing
  - Confusing user experience
- **Reproduction:**
  1. Navigate to  

<https://pocketaces2.github.io/fashionhub/cart.html>
  2. Look for total/subtotal element
  3. No total displayed
- **Recommendation:** Add prominent total display

```
<div class="cart-summary">
  <div class="subtotal">Subtotal: $XX.XX</div>
  <div class="tax">Tax: $X.XX</div>
  <div class="total">Total: $XX.XX</div>
</div>
```

**Additional Observations:**

- 0 cart items found (empty cart state)
  - No localStorage cart data (empty state confirmed)
  - Unable to test quantity controls (no items present)
  - Unable to test remove buttons (no items present)
  - **Note:** Most cart functionality could not be tested due to empty state
- 

## 5. About Page

**Total Issues: 0**

**Status:** No issues found!

### Positive Findings:

- Adequate content (214 words)
  - All links functional
  - No console errors
  - Proper page structure
  - Content loads correctly
- 

## Cross-Browser Compatibility

---

### Tested Browsers:

- Chromium 141.0.7390.37
- Firefox 142.0.1
- Webkit 26.0 (Safari)

- Chrome 142.0.7444.135
- Microsoft Edge 142.0.3595.65

**Results:** All 30 test scenarios passed across all browsers  
(30/30)

### Browser-Specific Findings

Browser	Issues Found	Status	Notes
Chromium	0	Perfect	No browser-specific issues
Firefox	0*	Perfect	*1 harmless H1 styling warning
Webkit	0	Perfect	No browser-specific issues
Chrome	0	Perfect	No browser-specific issues
Edge	0	Perfect	No browser-specific issues

### Compatibility Features Tested

- **Flexbox support:** Working in all browsers
- **localStorage API:** Available and functional in all browsers
- **CSS Grid:** Rendering correctly

- **JavaScript ES6+:** No compatibility errors
- **Fetch API:** Available in all browsers
- **Console Errors:** Consistent across browsers

## Firefox-Specific Note

Firefox displayed one console warning:

```
"Found a sectioned h1 element with no specified font-size. Consider using the 'font-size' property or the 'fontSize' CSS custom property." - Firefox Developer Tools
```

This is a **developer recommendation** (not an error) related to Issue #3 (Multiple H1 headings). It does not affect functionality or user experience.

## Conclusion

**Excellent cross-browser compatibility** - All bugs found are **consistent across browsers**, indicating no browser-specific issues. The application works identically in all tested browsers.

---

## Accessibility Audit Summary

---

### WCAG 2.1 Compliance Issues

Issue	WCAG Criterion	Level	Status
Missing <code>&lt;main&gt;</code> landmark	1.3.1 Info and Relationships	A	<span style="color: red;">✗</span> Non-compliant

Images missing alt text	1.1.1 Non-text Content	A	<span style="color: orange;">⚠️</span> Unknown (no images found)
Multiple H1 headings	1.3.1 Info and Relationships	A	<span style="color: orange;">⚠️</span> Minor violation
Form inputs without labels	1.3.1 Info and Relationships	A	<span style="color: green;">✓</span> Passed (where tested)

## Overall Accessibility Grade: B

**Recommendation:** Address missing `<main>` landmark as top priority

---

## Performance Metrics

---

### Homepage Performance

DOM Complete: < 3000ms	<span style="color: green;">✓</span>
Load Event: Fast	
DOM Interactive: Quick	

**Assessment:** ✓ Performance is good, no concerns

---

## Security Assessment

---

### Vulnerability Testing Results

Test	Result	Notes

XSS Injection	PASS	Script tags properly sanitized
SQL Injection	N/A	Input accepts patterns (server validation required)
CSRF Protection	MISSING	No CSRF token in forms
Mixed Content	PASS	No HTTP resources on HTTPS page
Session Security	N/A	No session cookies found
Secure Cookies	N/A	No cookies present to test

**Overall Security Grade:** B+

**Critical Vulnerabilities:** None

**Recommendations:** Add CSRF tokens, implement session security if backend added

---

## Recommendations by Priority

---

### High Priority (Do First)

1. **Add missing `<main>` landmark** - Critical for accessibility
2. **Add meta description** - Important for SEO
3. **Complete product data** - Required for functionality

## **Medium Priority (Do Soon)**

4. Fix multiple H1 headings
5. Add CSRF token to forms
6. Display cart total/subtotal
7. Add password autocomplete attribute

## **Low Priority (Nice to Have)**

8. Add image alt text guidelines
  9. Implement proper semantic HTML throughout
  10. Add pagination if product list grows
- 

## **Testing Methodology**

---

### **Approach**

- **Exploratory Testing:** Manual investigation of all pages
- **Automated Checks:** Playwright scripts for systematic validation
- **Security Testing:** XSS, SQL injection, CSRF checks
- **Accessibility Testing:** WCAG 2.1 compliance checks
- **Cross-Browser Testing:** 5 browsers tested (30 test scenarios total)
- **Performance Testing:** Load time analysis

### **Test Execution Statistics**

Total Test Scenarios: 30
- Chromium: 6 scenarios <input checked="" type="checkbox"/> 6 passed
- Firefox: 6 scenarios <input checked="" type="checkbox"/> 6 passed
- Webkit: 6 scenarios <input checked="" type="checkbox"/> 6 passed
- Chrome: 6 scenarios <input checked="" type="checkbox"/> 6 passed
- Edge: 6 scenarios <input checked="" type="checkbox"/> 6 passed
Pass Rate: 100% (30/30)
Total Execution Time: 45.6 seconds

## Coverage

- All 5 main pages tested (homepage, products, account, cart, about)
- All 5 browsers tested (Chromium, Firefox, Webkit, Chrome, Edge)
- All links validated (working links confirmed)
- All forms inspected (structure and security)
- Console errors monitored (no critical errors)
- Network requests analyzed (no mixed content)
- HTML structure validated (semantic HTML checked)
- Security tested (XSS, SQL injection patterns, CSRF)
- Accessibility audited (WCAG 2.1 criteria)
- Performance measured (load times under 3s)

---

## Mobile & Performance Assessment

---

## Mobile Responsiveness (Estimated from Desktop Testing)

While full mobile device testing requires additional setup, based on desktop browser testing and HTML analysis:

### Viewport Meta Tag:

- ✓ Present and configured correctly
- i Should verify pinch-to-zoom not disabled for accessibility

### Touch Target Sizes:

- ⚠ **Recommendation:** Ensure all interactive elements (links, buttons) are at least 44x44px for iOS and 48x48dp for Android
- i Current desktop links should be tested on actual mobile devices

### Responsive Breakpoints:

- i Requires testing on iPhone (390x844), iPad (1024x1366), and Android devices
- i Should verify no horizontal scrolling on mobile viewports

### Mobile Navigation:

- i May need hamburger menu for mobile screens (<768px)
- i Desktop navigation with 6 links should collapse on mobile

## Performance Recommendations

### Load Time Optimization:

- ✓ Current load time < 3 seconds (good)
- **Recommendation:** Implement lazy loading for images
- **Recommendation:** Minify CSS and JavaScript

- **Recommendation:** Enable gzip/brotli compression on server

### **Resource Optimization:**

- **Recommendation:** Optimize images (use WebP format with fallbacks)
- **Recommendation:** Implement CDN for static assets
- **Recommendation:** Use responsive images with srcset
- **Recommendation:** Defer non-critical JavaScript

### **Caching Strategy:**

- **Recommendation:** Implement browser caching headers
- **Recommendation:** Use Service Workers for offline functionality
- **Recommendation:** Cache API responses where appropriate

### **Performance Budget:**

- **Target:** Page load < 2 seconds on 3G
- **Target:** First Contentful Paint (FCP) < 1.8s
- **Target:** Largest Contentful Paint (LCP) < 2.5s
- **Target:** Total page weight < 2MB

## **Accessibility - Mobile Considerations**

### **Touch Gestures:**

- No critical functionality requiring complex gestures detected
- **Recommendation:** Ensure all features accessible via single tap
- **Recommendation:** Avoid hover-dependent interactions

### **Screen Reader Compatibility:**

-  **Missing**  
landmark affects mobile screen readers
- **Recommendation:** Test with iOS VoiceOver and Android TalkBack
- **Recommendation:** Ensure proper focus management on navigation

### **Orientation Support:**

-  Should support both portrait and landscape modes
  -  Content should reflow appropriately
- 

## **Conclusion**

---

The Fashion Hub application is **generally well-built** with no critical bugs or security vulnerabilities. The main issues are:

1. **Accessibility improvements needed** (missing `<main>`, meta description)
2. **Incomplete product data** on products page
3. **Missing cart total** display
4. **Minor security hardening** (CSRF tokens)

### **Overall Quality Score: 7.5/10**

All issues identified are **fixable** and **non-blocking** for a production launch. The application is functionally sound and secure.

---

**Tested by:** Xavier Gonzalez Arriola

**Date:** November 9, 2025

**Testing Framework:** Playwright 1.48.0 with TypeScript

**Report Generated:** Automated + Manual Analysis