# **Test Plan – Henry’s E-Commerce Website**

**URL**:<https://www.henrys.com>

## **1. Scope**

**In Scope:**

* Functional testing of e-commerce flows (login, search, cart, checkout)
* Automation testing for regression/smoke using Cypress
* Responsive and cross-browser UI testing
* Performance checks for critical pages
* Accessibility and basic security testing

**Out of Scope:**

* Backend system/infrastructure testing
* Deep testing of third-party payment gateways or store locators

## **2. Objectives**

* Ensure critical flows (search, cart, checkout, login, product view) work flawlessly
* Automate repetitive test cases to improve QA efficiency
* Validate layout and features across devices and browsers
* Maintain a secure, fast, and accessible shopping experience

## **3. Tools and Frameworks**

| **Category** | **Tools** |
| --- | --- |
| Functional Testing | Cypress (JavaScript), Selenium |
| API Testing | Postman |
| Performance Testing | Lighthouse, WebPageTest |
| Security Testing | OWASP ZAP |
| Accessibility Testing | AXE Chrome Extension |
| Cross-Browser Testing | BrowserStack |
| CI/CD Integration | GitHub Actions or Jenkins |
| Bug Tracking | Jira |
| Reporting | Mochawesome, Allure |

## **4. Features to be Tested**

### **Login**

* Valid login with correct credentials
* Invalid login shows error message
* Forgot password workflow

### **Search and Filters**

* Product search using keywords
* Apply filters (brand, price, type)
* Sort products (price, popularity)

### **Product Details Page**

* View images, title, SKU, description, availability
* Add product to cart
* Pickup/store locator feature

### **Shopping Cart**

* Add, update, and remove products
* Price updates reflect correctly

### **Checkout**

* Enter shipping & billing details
* Validate order summary
* Confirm and place order

### **Payment**

* Test credit card and PayPal sandbox (UI-level only)
* Check secure redirection and SSL

### **Order History**

* Verify new orders appear in order history
* Reorder or download invoice options

### **User Profile**

* Update account information
* Manage addresses

### **Wishlist**

* Add and remove items from wishlist

### **Responsiveness**

* Test mobile, tablet, and desktop layouts

### **Cross-Browser Compatibility**

* Test in Chrome, Firefox, Safari, Edge

### **Performance**

* Homepage loads under 3 seconds
* Lazy loading and image optimization in place

### **Security**

* HTTPS enforcement
* Session and cookie security

### **Accessibility**

* Keyboard navigation works
* Screen reader compatibility for buttons and forms

## **5. Automation Testing Plan**

**Scope of Automation:**

* Login/logout
* Product search and filtering
* Add/remove product to/from cart
* Checkout flow
* Wishlist and profile update
* Full regression and smoke test suites

| **Category** | **Detail** |
| --- | --- |
| Automation Tool | Cypress (preferred), |
| Test Runner | Mocha (Cypress) |
|  |  |
| Execution | CI/CD via GitHub Actions or Jenkins |