**Demo Blaze Ecommerce**

**Test Plan**

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# Introduction

* **Purpose**  
  This test plan outlines the strategy, scope, approach, resources, and schedule for testing the Demo blaze e-commerce platform. The goal is to ensure the platform delivers a reliable, secure, and user-friendly shopping experience.
* **Scope**  
  The plan includes testing key functionalities: user authentication, product browsing, shopping cart, purchasing, and UI/UX responsiveness.
* **Out of Scope**  
  Third-party payment gateway functionality (beyond integration points).

# Objectives

* **Validate core functionalities from login to checkout.**
* **Ensure the UI is user-friendly and responsive.**
* **Identify security vulnerabilities and usability flaws.**

# Test Strategy

**Test Types:**

* Functional Testing
* UI Testing
* Regression Testing
* Usability Testing
* Security Testing (basic)
* Cross-browser Testing
* Mobile Responsiveness Testing

**Test Levels:**

* Integration Testing
* System Testing
* UAT Testing

# Test Environment

* Web Browser: Chrome, Firefox, Safari, Edge
* Devices: Desktop, Tablet, Mobile

# Test Scenarios

**Authentication**

* Login with valid credentials
* Login with invalid credentials
* Login with empty credentials
* Sign up with a new username
* Sign up with a registered username
* Signup with empty credentials
* Password field behavior (e.g., hidden input)
* Verify user name returns in website header after user login
* Logout functionality

**Home Page**

* Load homepage products
* Check Header menu navigation
* Check slider images
* Filter by category (Phones, Laptops, Monitors)
* Validate Pagination behavior
* Check footer details

**Product details page**

* Verify Product detail view
* Validate add to cart button

**Shopping Cart**

* View empty cart behavior
* click place order with empty cart
* Add single/multiple products
* Validate adding same product to cart multiple times
* Remove products from cart
* View total calculation
* validate cart after page refresh

**Checkout / Order**

* Complete valid order
* Submit order with empty checkout fields
* Order confirmation message validation

**Contact**

* Validate user can send contact message
* Submit an empty contact form

**About Us**

* Validate user can access about us page
* Validate About us page return correct content

**UI and Responsiveness**

* Validate layout on different screen sizes
* Element alignment and visibility

**Cross-browser Compatibility**

* Run the application on Chrome, Firefox, Safari, and Edge

**Security**

* Attempt XSS via input fields
* Check URL manipulation and direct access without login

# Prioritization by Business Impact

|  |  |  |
| --- | --- | --- |
| Area | Impact | Priority |
| Home Page | High | High |
| Product Browsing | High | High |
| Authentication | High | High |
| Shopping Cart | High | High |
| Checkout Flow | High | High |
| Security Input Handling | High | High |
| contact | Medium | Medium |
| About Us | Medium | Medium |
| UI Responsiveness | Medium | Medium |
| Browser Compatibility | Medium | Medium |

# Risks and Mitigations

|  |  |
| --- | --- |
| Risk | Mitigation |
| Tight deadlines | Prioritize high-risk features |
| Incomplete requirements | Frequent clarifications with PM |
| Third-party tool failure | Use mocks or stubs |

# Time Plan

|  |  |
| --- | --- |
| Task | Duration |
| Test Planning | 1 day |
| Test Case Design | 1–2 days |
| Test Execution | 2–3 days |
| Bug Reporting/Retest | Ongoing |
| Final Report | 0.5 day |

# Test Deliverables

* Test Plan document
* Test Scenarios/Ideas List
* Test Cases
* Bug Reports
* Daily/Final Test Execution Report

# Entry and Exit Criteria

**Entry Criteria:**

* Application build deployed to test environment
* Feature list approved
* Test data prepared

**Exit Criteria:**

* All critical test cases passed
* No high or blocker bugs open
* Regression suite executed