Blaze

E-commerce platform that allows users to browse and purchase products online. This document provides a structured approach to testing the website's functionalities, ensuring a seamless and secure shopping experience for users.

#### ****1. Project Overview****

**Project Name:** Blaze website  
**Start Date:** [25/01/2025]  
**End Date:** [15/04/2025]  
**Client:** [Depi]  
**Development Team:** [Nada – Afaf – Noura-Omnia-Nada]

**1. Scope of Testing**

The testing will cover the following key areas:

* **User Authentication:** Registration and login processes.
* **Shopping:** add to cart
* **Checkout:** Adding items to the cart and completing purchases.

**2. Types of Testing**

The following testing methodologies will be employed:

* **Functional Testing:** Verifying that all features work as intended.
* **Usability Testing:** Assessing the user-friendliness and intuitive design of the interface.
* **Compatibility Testing:** Checking the website's functionality across different browsers, devices, and operating systems.

​**3. User stories:**

1. **User Registration:**
   * **As a new user**, I want to register for an account using my email address so that I can receive personalized recommendations.
2. **User Login:**
   * **As a registered user**, I want to log in using my email and password so that I can access my account securely. ​
3. **Product Browsing:**
   * **As a shopper**, I want to browse products by category so that I can find items that interest me.
4. **Product Details:**
   * **As a shopper**, I want to view detailed information about a product, including images, descriptions, so that I can make informed purchase decisions. ​
5. **Shopping Cart:**
   * **As a shopper**, I want to add products to my shopping cart so that I can review and purchase them later
   * **As a shopper**, I want to view and edit the contents of my shopping cart so that I can manage my selections before checkout.
6. **Checkout Process:**
   * **As a shopper**, I want to proceed to checkout securely so that I can complete my purchase.
   * **As a shopper**, I want to choose from various payment methods (credit card)
7. **Order Confirmation and Tracking:**
   * **As a shopper**, I want to receive an order confirmation alert so that I know my purchase is being processed.

**4.Entry Criteria:**

These conditions must be met before testing begins.

1. **Test Environment Readiness:**

* The website is deployed on a test server or staging environment.
* All necessary pages (Home, Contact, About Us, Cart, Login, Signup) are accessible.

1. **Test Data Availability:**

* Sample products (Samsung Galaxy S6, Nokia Lumia 1520, Nexus 6) are added to the database
* Categories like Phones, Laptops, and Monitors are available.

**5.Exit Criteria:**

These conditions must be fulfilled before testing is considered complete.

1. **All Planned Test Cases Executed:**

* All functional, UI, and compatibility test cases have been executed.

1. **Acceptance Criteria Met:**

* Website meets all the business and functional requirements (price display, navigation)

1. **Test Summary Report Submitted:**

* A test summary or sign-off report has been delivered and approved.

## **Exploratory Testing**

### 1. **User Authentication: Registration & Login**

#### ****Testing Goals:****

* Ensure users can register and log in successfully.
* Validate input fields and error handling.
* Handle both positive and negative test cases.

#### ****Test Ideas:****

* Register with a valid email and strong password.
* Try registering with an already-used email (check for proper error message).
* Submit the form with empty fields.
* Use special characters in the name or email fields.
* Try logging in after successful registration.

### **Shopping: Add to Cart**

#### ****Testing Goals:****

* Ensure users can add items to the cart.
* Validate quantity, total price, and cart behavior.

#### ****Test Ideas:****

* Add a single product to the cart.
* Add multiple products from different categories.
* Remove an item from the cart — is the total updated?
* Update the quantity of a product — does price recalculate?
* Add the same product twice — does the quantity increase or duplicate?
* Add to cart while not logged in — what happens?
* Add to cart, then navigate away and return — is it still there?

### 3. **Checkout: Completing Purchases**

#### ****Testing Goals:****

* Ensure the checkout process works smoothly.
* Validate address, payment method, and order confirmation.

#### ****Test Ideas:****

* Proceed to checkout with items in the cart.
* Try checking out without entering shipping details — is validation triggered?
* Test various payment methods (credit card, cash on delivery, etc.).
* Enter invalid credit card info — does it give a proper error?
* Try changing the shipping address during checkout.
* Cancel checkout midway — does it save your progress?
* Complete an order — do you receive a confirmation email?

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| 3. Data Flow & System Behavior  Erd diagram:    Use \_case:    State diagram:  C:\Users\DELL\AppData\Local\Packages\5319275A.WhatsAppDesktop_cv1g1gvanyjgm\TempState\32493FBDD3D4DC341142BEC853C4700F\WhatsApp Image 2025-04-11 at 23.01.51_88dc6234.jpg  Activity diagram: |
| **Sequence diagram** |

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