

# Test Plan

## 1. Overview

**Project:** Electronic Commerce System

**Module:** Products Page

**Responsible:** [Name of Responsible]

**Date:** [Date]

## 2. Purpose

The purpose of this testing plan is to ensure that the ecommerce system's product page is working as expected, meeting all defined functional and non-functional requirements.

## 3. Scope

This plan covers testing key functionality on the product page, including navigation, product display, filters, and user actions such as add to cart.

This plan does not include registration or login

### 3.1 Testing Strategies

- **Automation:** Use of tools such as Selenium, TestNg for repetitive and regression testing.
- **Manual:** Execution of critical test cases that require human evaluation.

## 4. Test Cases

**Test Case 1:** Product Page Loading

**ID:** TC001

**Description:** Check if the product page loads correctly.

**Preconditions:** The user must be logged in to the system.

**Steps:**

1. Navigate to the products page.
2. Check that all page elements (navigation bar, product list, filters) are displayed correctly.

**Expected Result:** The product page should load completely in less than 3 seconds, displaying all elements correctly.

## **Test Case 2: Product Display**

**ID:** TC002

**Description:** Check whether products are displayed correctly on the products page.

**Preconditions:** Products registered in the system.

### **Steps:**

1. Navigate to the products page.
2. Check the display of at least 6 products.
3. Confirm that each product displays name, image, price, description and an "add to cart" button.

**Expected Result:** All products must be displayed with correct and consistent information.

## **Test Case 3: Filters Functionality**

**ID:** TC003

**Description:** Verify that product filters work correctly in the alphabetical order of names.

**Preconditions:** Products with several names registered in the system.

### **Steps:**

1. Navigate to the products page.
2. Apply name filter A to Z.
3. Apply name filter Z to A.
4. Check whether the products are displayed in an orderly manner according to the selected filter.

**Expected Result:** The product list should be updated to display the products in the order that match the applied filter.

## **Test Case 4: Add Product to Cart**

**ID:** TC004

**Description:** Check if the user can add a product to the cart.

**Preconditions:** User logged in to the system and products available in stock.

### **Steps:**

1. Navigate to the products page.
2. Select a product and click "Add to Cart".
3. Check if the selected products are in the cart.
4. Verify if the shopping cart located in the top right corner is showing the correct amount of items added to the cart.

**Expected Result:** The product should be added to the cart, the number of items in the cart should be updated and the shopping cart located in the top right corner should show the correct amount of items added to the cart.

#### **Test Case 5: Ordering Products by Price**

**ID:** TC005

**Description:** Check the functionality for sorting products by price.

**Preconditions:** Products with different prices registered in the system.

**Steps:**

1. Navigate to the products page.
2. Apply sorting by price (from lowest to highest/highest to lowest).
3. Check the order of displayed products.

**Expected Result:** Products should be displayed in ascending or descending price order, according to the selected filter.

#### **Test Case 6: Data Persistence**

**ID:** TC006

**Description:** Check data persistence functionality when user logs off.

**Preconditions:** User logged in to the system and with products in the cart.

**Steps:**

1. Be logged into the system
2. Have items in cart
3. Go to the menu in the top left corner of the screen and log off the system
4. Login into the system with the same username and password used previously
5. Check if the same items and quantity remaining in the cart are the same.

**Expected Result:** The products that were in the cart should remain there even after the user logs off or the time spent in the system expires.

## 5. Testing Environment

The tests will be carried out in the approval environment, and contain the same settings as the production environment with a mass of data previously generated by the quality team.

Hardware: [Details of the hardware used in the tests]

Software: [OS and browser details]

Test Data: [Information about test data used]

### 5.1 Test Team

Test Manager: [Name]

Test Analyst: [Name]

Testers: [Names]

## 6. Approval Criteria

All test cases must be executed successfully.

No critical or blocking errors should be encountered.

### 6.1 Definition of Ready

Features that pass the checks and tests described in these Test Plan, do not present bugs with severity above Minor, and that undergo business validation under the responsibility of the product team, will be considered ready.

## 7. Bug Classification

Bugs will be classified with the following severities:

ID	Nível de Severidade	Descrição
1	Blocker	<ul style="list-style-type: none"><li>• Bug that blocks the testing of a function/feature, causing the application to crash.</li><li>• The Button does not work, preventing full use of the functionality.</li><li>• Delivery block.</li></ul>

2	Major	<ul style="list-style-type: none"> <li>• Functionality does not work as expected</li> <li>• Unusual input causes irreversible effects</li> </ul>
3	Moderate	<ul style="list-style-type: none"> <li>• Functionality does not meet certain acceptance criteria, but its overall functionality is not affected</li> <li>• Error or success message is not displayed</li> </ul>
4	Minor	<ul style="list-style-type: none"> <li>• Almost no impact on functionality but disrupts the experience</li> <li>• Orthographic error</li> <li>• Minor UI errors</li> </ul>

## 8. Test Schedule

### 8.1 Project Milestones

- **Unit Tests Start:** [Date]
- **Integration Tests Start:** [Date]
- **Start of Acceptance Tests:** [Date]
- **Test Completion:** [Date]

### 8.2 Effort Estimation

Description of estimated hours for each test phase.

## 9. Attachments

- Screenshots of test results
- Error logs (if applicable)
- Detailed performance reports

**Approval:**

**Responsible for Testing:** \_\_\_\_\_

**Date:** \_\_\_\_\_

