### **Test Summary Report**

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### **1. Product Search**

* **Test Scenarios**: 8 test cases related to product search were executed.
* **Pass Rate**: 0% passed, 100% failed.
* **Issues Identified**: The search bar is not available, preventing any product search functionality. This issue affects all search scenarios:
  + Valid product search
  + Invalid product search
  + Empty query search
  + Special character search
  + Partial product name search
  + Search in empty or mismatched categories

#### **Bugs Related:**

* **BUG-001** to **BUG-008**: All search-related bugs indicate the unavailability of the search bar, which causes the failure of all search-related test cases.
* **Severity**: Critical for all search bugs (High Priority).

### **2. Product Details**

* **Test Scenarios**: 9 test cases related to product details were executed.
* **Pass Rate**: 6 passed, 3 failed.
* **Issues Identified**:
  + Missing product image did not show a placeholder message.
  + Missing product description showed a placeholder but the issue of displaying a missing product image was not possible to verify.

#### **Bugs Related:**

* **BUG-009** to **BUG-011**: Bugs related to missing product image and description. The missing image and placeholder functionality failed.
* **Severity**: Major for product details bugs (Medium Priority).

### **3. Shopping Cart**

* **Test Scenarios**: 10 test cases related to shopping cart functionality were executed.
* **Pass Rate**: 7 passed, 3 failed.
* **Issues Identified**:
  + Insufficient stock limitation is not enforced when adding products to the cart.
  + No prompt for an empty cart when attempting to proceed to checkout.

#### **Bugs Related:**

* **BUG-012**: Insufficient stock issue where no limitation is enforced.
* **BUG-013**: No prompt for an empty cart during checkout.
* **Severity**: Critical for both bugs (High Priority).

### **4. Checkout Process**

* **Test Scenarios**: 7 test cases related to checkout were executed.
* **Pass Rate**: 3 passed, 4 failed.
* **Issues Identified**:
  + No error message for invalid payment details (expired card, wrong CVV).
  + No prompt for an empty cart at checkout.
  + Order confirmation is allowed without a shipping address, and no order summary is shown before confirmation.

#### **Bugs Related:**

* **BUG-014** to **BUG-019**: Checkout-related bugs include missing error handling for invalid payment details, incorrect handling of an empty cart, and no summary before order confirmation.
* **Severity**: Critical for all bugs (High Priority).

### **5. User Authentication**

* **Test Scenarios**: 6 test cases related to user authentication were executed.
* **Pass Rate**: 1 passed, 5 failed.
* **Issues Identified**:
  + User registration did not log the user in after successful registration.
  + Login issues even with valid credentials.
  + Forgot password functionality was not available.

#### **Bugs Related:**

* **BUG-020** and **BUG-021**: Bugs related to registration and login functionality, preventing users from accessing their accounts.
* **Severity**: Critical for both bugs (High Priority).

### **6. Order History**

* **Test Scenarios**: 4 test cases related to order history were executed.
* **Pass Rate**: 1 passed, 3 failed.
* **Issues Identified**:
  + Users could not view past orders or the order history section.
  + No functionality for cancelled orders.

#### **Bugs Related:**

* **BUG-022**: Order history issues where users cannot see past orders.
* **Severity**: Critical (High Priority).

### **Conclusion & Recommendations**

The testing has uncovered several critical issues that affect the core functionality of the website, especially regarding user authentication, product search, checkout, and order history. Specifically:

* **Critical Issues**: The most urgent issues involve the **search bar** being unavailable for all product search scenarios, **order confirmation without shipping address**, and **payment validation failures**. These need to be resolved immediately.
* **Recommendations**:
  1. Fix the **search bar** issue for all scenarios.
  2. Implement stock limitations and error handling for invalid payment details.
  3. Ensure the **order summary** is displayed before checkout and prompt the user if the cart is empty.
  4. Address user authentication issues, particularly login and registration.