# **Test Case Specification for JPetStore**

## **1. Test Case Specification Identifier**

* **Document ID**: TC-OCTOPERF-PETSTORE-CATALOG-001
* **Version**: 1.0
* **Version Date**: April 27, 2025
* **Author**:
* **Contact**:

### **Revision History:**

* **v1.0** – Initial Draft – April 27, 2025

## **2. Test Items**

* Category Listing
* Product Listing under Categories
* Product Detail Viewing
* Search Functionality
* Add to Cart from Product List and Detail Page

## **3. Input Specifications**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Case No** | **Test Element** | **Valid Values** | **Valid Response** | **Invalid Response** |
| C1 | Category Selection | Fish, Dogs, Cats, Birds, Reptiles | Product list displayed correctly | "Page not found" or empty listing |
| C2 | Product Selection | Valid product IDs (e.g., FI-SW-01) | Product detail page opens | 404 error if broken link |
| C3 | Search Input | "Fish", "Dog", "Bird" | Relevant products listed | 'No products found' message |
| C4 | Add to Cart | Valid item IDs, quantity 1–99 | Item added successfully | Error for invalid quantity or missing item |

### **Inputs:**

* Category names
* Search keywords
* Product IDs (from listing)

### **Human Actions:**

* Clicking links/buttons
* Typing search text

### **Conditions:**

* No login required.
* Cart must be empty at start (for clean testing).

## **4. Output Specifications**

|  |  |
| --- | --- |
| **Output** | **Expected Result** |
| Category Page | Correct category products are listed |
| Product Detail View | Image, description, price displayed correctly |
| Search Results | Matching products displayed based on keyword |
| Add to Cart | Product added to shopping cart |
| Error Handling | Clear "No products found" or proper error messages |

**Validation Points:**

* Correct page titles and headers
* Proper redirection (no broken links)
* Cart reflects added products accurately

## **5. Environmental Needs**

|  |  |
| --- | --- |
| **Environment Aspect** | **Requirements** |
| Hardware | Desktop/Laptop with 8GB RAM |
| Software | Latest Chrome, Firefox |
| OS | Windows 10+, macOS Monterey+, Ubuntu 20.04+ |
| Network | Stable internet (10 Mbps+) |
| Test Tools | Selenium WebDriver (optional) |

## **6. Special Procedural Requirements**

* Clear browser cache before starting tests.
* Reset cart contents between add-to-cart tests.
* Use fresh sessions for search functionality validation.
* Verify using different category paths.

## **7. Inter-case Dependencies**

|  |  |
| --- | --- |
| **Dependency** | **Description** |
| TC-CAT-001 ➔ TC-PROD-002 | Category must load before viewing a product |
| TC-PROD-002 ➔ TC-CART-004 | Product must be selected before adding to cart |

## **Individual Test Cases**

### **Test Case 1: View Category Products**

* **Test Case ID**: TC-CAT-001
* **Objective**: Validate that category selection displays appropriate product listings.
* **Input Data**: Select "Fish" category.
* **Preconditions**: Access to the Catalog page.

#### **Test Steps:**

1. Open Catalog page.
2. Click on "Fish" or other categories.

#### **Expected Result:**

* Products under the selected category are listed correctly.

#### **Postconditions:**

* User can click into individual product detail pages.

### **Test Case 2: View Product Details**

* **Test Case ID**: TC-PROD-002
* **Objective**: Validate correct display of product detail page.
* **Input Data**: Select a product like "FI-SW-01".

#### **Test Steps:**

1. Click on a listed product.
2. Observe product information.

#### **Expected Result:**

* Product image, description, and price shown properly.

#### **Postconditions:**

* Ready to add to cart.

### **Test Case 3: Search for Products**

* **Test Case ID**: TC-SEARCH-003
* **Objective**: Validate search functionality.
* **Input Data**: Search keywords like "dog", "fish".

#### **Test Steps:**

1. Enter keyword in the search box.
2. Click "Search" or press Enter.

#### **Expected Result:**

* Relevant products matching the search are displayed.

#### **Postconditions:**

* Products can be clicked for detail or added to cart.

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

* **Test Case ID**: TC-CART-004
* **Objective**: Validate adding products to the shopping cart.
* **Input Data**: Select a product from category or search results.

#### **Test Steps:**

1. View product detail page.
2. Click “Add to Cart”.

#### **Expected Result:**

* Item appears in cart with correct quantity.

#### **Postconditions:**

* Cart is updated and ready for checkout (if continued).