SRS Document for JPet Store

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# 1 INTRODUCTION

## 1.1 Document Purpose

The purpose of this document is to provide a detailed Software Requirements Specification (SRS) for the Pet Store web application.

## 1.2 Product Scope

The Pet Store website enables users to browse various categories of pets, view product details, add products to a shopping cart, register/login as users, and place orders. It aims to offer a easy online shopping experience for pet lovers.

## 1.3 Intended Audience and Document Overview

Intended Audience:

* Pet Owners
* Pet Adopters

## 1.4 Definitions, Acronyms and Abbreviations

- SRS – Software Requirements Specification  
- NFR – Non-Functional Requirement  
- FR – Functional Requirement  
- UI – User Interface

## 1.5 References and Acknowledgments

Pet Store sample application: https://petstore.octoperf.com/actions/Catalog.action

# 2 OVERALL DESCRIPTION

## 2.1 Product Overview

The Pet Store application is a web-based e-commerce platform focused on pet products. It provides an intuitive interface for customers to browse pets, search for products, add items to a cart, register/login, and place orders.

## 2.2 Product Functionality

- Browse pet categories (Fish, Dogs, Cats, Birds, Reptiles).  
- View detailed product descriptions.  
- Add products to the shopping cart.  
- Register/login/logout functionality.  
- Manage shopping cart and place orders.  
- Search functionality for products.

## 2.3 Design and Implementation Constraints

- The application must run on standard web browsers: Chrome, Firefox, Edge.  
- Passwords must be stored securely using encryption techniques.

## 2.4 Assumptions and Dependencies

- The user has access to a stable internet connection.  
- The user has access to standard web browsers: Chrome, Firefox, Edge.

# 3 SPECIFIC REQUIREMENTS

## 3.1 External Interface Requirements

### 3.1.1 User Interfaces

- Responsive website UI for desktops, tablets, and smartphones.  
- Search bar at the top for product searches.

### 3.1.2 Hardware Interfaces

Standard web browsers: Chrome, Firefox, Edge.

## 3.2 Functional Requirements

|  |  |
| --- | --- |
| ID | Functional Requirement |
| FR1 | The system shall allow users to view pet categories. |
| FR2 | The system shall allow users to view details of individual pets. |
| FR3 | The system shall allow users to add products to the shopping cart. |
| FR4 | The system shall allow users to register with a valid email address. |
| FR5 | The system shall allow users to login and logout. |
| FR6 | The system shall allow users to view, edit, and delete items from the cart. |
| FR7 | The system shall allow users to place an order after successful login. |
| FR8 | The system shall allow users to search for products. |

# 4 OTHER NON-FUNCTIONAL REQUIREMENTS

## 4.1 Performance Requirements

- The website should be capable of handling 500 users at a time

## 4.2 Safety and Security Requirements

- User passwords shall be encrypted both at rest and in transit.