# Software Requirements Specification (SRS)

Project Title: PetStore App

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## 1. Introduction

### 1.1 Purpose

The PetStore App is a sample web application aimed at enhancing customer satisfaction by providing a seamless and informative shopping experience for pet owners, adopters, and stakeholders.

### 1.2 Intended Audience

* Pet Owners
* Pet Adopters
* Pet Supply Retailers
* Pet Service Providers

### 1.3 Scope

The PetStore App enhances the shopping and adoption experience by providing an intuitive platform for buying pets, pet supplies, and connecting with service providers, while fostering responsible pet ownership.

### 1.4 References

* Pet Store CRM Solutions
* User Experience and Interface Design Guidelines

### 1.5 Overview

The app facilitates online buying, selling, and adoption of pets and pet supplies, providing a modern, responsive experience to users.

## 2. Overall Description

### 2.1 Product Perspective

* User Experience: Profile creation, tailored recommendations based on pet preferences.
* Market Positioning: A community-driven platform for pet care, adoption, and supplies.

### 2.2 Product Functions

* User Registration & Authentication
* Personalized User Dashboard
* Product Catalog Management
* Shopping Cart & Checkout
* Pet Adoption Workflow
* Customer Support Services
* Admin Dashboard for Inventory and User Management

### 2.3 User Characteristics

* Users should possess basic digital literacy.
* Users can browse products, search, manage carts, and complete purchases independently.
* Admin users manage inventory and review customer feedback.

### 2.4 Constraints

* The system must be compatible with modern web browsers (Chrome, Firefox, Edge).
* Should support secure payment methods.

### 2.5 Assumptions and Dependencies

* Assumptions:
  + Users are familiar with online shopping interfaces.
  + Users have access to stable internet connections.
* Dependencies:
  + Integration with payment gateways (e.g., PayPal, Stripe).
  + Shipping and logistics partnerships.

## 3. Specific Requirements

### 3.1 External Interface Requirements

#### 3.1.1 User Interfaces

* Home Screen
* User Profile Page
* Product Listings Page
* Product Detail Page
* Shopping Cart
* Help and Support Section
* Checkout Process

#### 3.1.2 Hardware Interfaces

* Mobile Payment Services
* Touchscreen Support
* Messaging Services (for notifications)

#### 3.1.3 Software Interfaces

* Frontend: ReactJS / Angular
* Backend: Spring Boot
* Database: MySQL

#### 3.1.4 Communication Interfaces

* HTTP/HTTPS protocols for secure communication
* REST APIs for Frontend-Backend communication

### 3.2 Functional Requirements

#### 3.2.1 User Registration

* Users can create an account by providing username, password, and personal details.

#### 3.2.2 Login/Sign In

* Users can log in with their credentials and reset passwords via email verification.

#### 3.2.3 Product Listing and Search

* Users can browse products by categories, and apply filters (e.g., price, availability).

#### 3.2.4 Add to Shopping Cart

* Users can add or remove products from their shopping cart.

#### 3.2.5 Order Processing

* Users can review their order summary and specify delivery details before confirming orders.

#### 3.2.6 Payment Processing

* Integration with external payment gateways.
* Mark orders as "Completed" after successful payment.

#### 3.2.7 Admin – Inventory Management

* Admins can add, edit, or remove products.
* System alerts when inventory is low.

### 3.3 Performance Requirements

* Page load time should be ≤ 2 seconds.
* Payment and order processing should complete within ≤ 5 seconds.
* System should support concurrent users effectively.

### 3.4 Design Constraints

* MySQL as primary database.
* Browser compatibility with Chrome, Firefox, and Edge.

### 3.5 Software System Attributes

* User-friendly, intuitive design.
* Secure payment handling (PCI compliance).
* Modular and scalable architecture.

### 3.6 Other Requirements

* Multi-language support.
* Provision of user manuals for customers and admins.
* Post-order feedback collection system.