**Software Requirement Specification for PetStore App**

Project Tittle: PetStore App

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**1.Introduction:**

**1.1 Purpose:** The PetStore App is a sample web application which aims to enhance customer satisfaction by providing a seamless and informative shopping experience for pet owners and potential pet adopters.

**1.2 Intended Audience:**

Pet Owners

Pet Adopters

Pet Supply Retailers

Pet Service providers

**1.3 Scope:** The scope of an online PetStore App enhances the shopping experience by providing a wide range of features and functionalities designed to cater to the needs of pet owners, pet adopters, stakeholders.

**1.4 References:**

Pet Store CRM Solutions

User Experience and Interface Design

**1.5 Overview:** The PetStore App is designed to facilitate the online buying and selling of pets and pet supplies, it aims to enhance shopping experience while promoting responsible pet ownership.

**2.Overall description**

**2.1 Product perspective:**

User Experience: Users can create their profiles that allow for tailored recommendations based on preferences and pet types.

Market Positioning: The app caters to pet owners, potential adopters and service providers, it aims to create community around pet care and ownership.

**2.2 Product Function:** User Registration and Authentication, User Dashboard, Product Catalog, Shopping Cart and Checkout, Adoption Process, Customer Support, Admin Dashboard.

**2.3 User characteristics:** User Registration and profiles, Product Browsing and Search, Detailed Product Information, Shopping Cart and Checkout, Adoption Features, Order Management.

**2.4 Constraints:** System should be compatible with major web browsers (Chrome, Firefox and edge)

**2.5 Assumptions and dependencies:**

Assumptions:

User Accessibility: User possess basic digital literacy to navigate the app.

Payment Processing: Users are comfortable with online payment methods.

Dependencies:

Payment Processors: Dependency on payment gateways (PayPal, Net Banking, Cards etc)

Shipping and Logistics: Partnerships with shipping companies.

**3. Specific requirements**

**3.1 External interface requirements:**

**3.1.1 User interfaces:**

Home Screen

User Profile

Product Listings Page

Product Detail Page

Shopping Cart

Help and Support

Checkout process

**3.1.2 Hardware interfaces:**

Mobile Payment Services

Touchscreen interfaces

Message Services

**3.1.3 Software Interface**

Frontend: JavaScript-based (React or Angular).

Backend: Spring Boot.

Database-MySQL for data storage.

**3.1.4 Communication Interface:**

HTTP/HTTPS-The system will communicate over secure HTTP/HTTPS protocols

REST API-Communication between Front end and Back end.

**3.2 Functional Requirement**

**3.2.1 User Registration:** This System will allow new User to create Account by providing username, Password and other personal details.

**3.2.2 Login/Sign up:** Registered Users can log in by providing their Username and Password allow user to reset their Password via email.

**3.2.3 Product Listing and search:** User can browse their product by category, filter by price and availability.

**3.2.4 Add product to shopping cart:** Users can add products to their Shopping cart and remove items

**3.2.5 Order Processing:** The User can make their Orders which can be delivered to their Mentioned address, and user can review their Order Summary.

**3.2.6 Payment Processing:** The system will Integrate with external Payment gateways like PayPal and Net Banking, Credit/Debit Cards, Stripe. Upon successful Payment the order will be marked as “Completed” and forwarded for fulfilment.

**3.2.7 Admin-inventory Management:** Admin can add, update or remove product from the inventory. The system will track product stock levels and alert administration when inventory is low.

**3.3 Performance Requirements:**

The system should support more Users.

Page load should not exceed more than 2 sec

The system must be able to process payment and completes order within 5 sec.

**3.4 Design Constraints:**

Database-MySQL will be used as the primary database system

Browser compatibility-Should support moder web browser (Chrome, Firefox and Edge)

**3.5 Software System Attributes:**

The system should have user-friendly and intuitive design

Payment should be processed securely.

**3.6 Other Requirements:**

The system should be adaptable for multiple languages.

The system must provide a user manual for customers and admins.

There should be customer feedback collection after orders.