**Software Requirements Specification (SRS)**

**Project Title:** Pawsitive Life

**Student Name:** Syeda Shariya

**Reg Number:** 2443061

**Course Name:** Full Stack Development

**Code:** BCA-261-2

**Submission Date:** 02-01-2025

**1. Introduction**

**1.1 Purpose**

At **Pawsitive Life**, we understand that caring for pets is more than just feeding them or taking them for walks—it’s about ensuring their overall well-being. This platform is built to make life easier for pet owners by centralizing everything they need: health tracking, appointment scheduling, and even access to trusted service providers. Whether it’s reminding you about your dog’s next vaccination or booking a grooming session, Pawsitive Life is your reliable partner in pet care.

**1.2 Scope**

Managing pet care can be overwhelming, especially with busy schedules. Pawsitive Life aims to solve this problem by offering:

* A **central dashboard** to track health records, upcoming vaccinations, and appointments.
* Tools to **book and pay for services** like grooming, boarding, and training.
* Insights into your pet’s health through **analytics dashboards** showing trends in weight and activity.
* A supportive **community forum** where pet owners can share experiences and advice.
* Access to **educational blogs and articles** to learn best practices in pet care.

And it’s all available on your desktop, tablet, or phone—so you can manage your pet’s needs wherever you are.

**1.3 Technology Stack**

To make Pawsitive Life reliable and user-friendly, we’re building it using:

* **Front-End**: HTML5, CSS3, and JavaScript for a seamless and responsive design.
* **Back-End**: Node.js to power the application and handle all requests.
* **Database**: MongoDB for securely storing data.
* **APIs**:
  + **Google Maps API** for finding nearby service providers.
  + **Razorpay** for secure payments.
* **Cloud Hosting**: AWS or Google Cloud for scalability and reliability.

**1.4 Definitions and Acronyms**

* **UI/UX**: Refers to how the app looks (User Interface) and how it feels to use (User Experience).
* **API**: A way for the app to talk to other services like payment systems or maps.
* **Health Analytics**: A feature showing trends like your pet’s weight over time.
* **Vaccination Alerts**: Notifications to remind you about your pet’s vaccination schedule.

**2. Overview**

**2.1 Why Pawsitive Life?**

Pet owners often find themselves juggling multiple things—tracking vaccinations, finding reliable service providers, or simply remembering when to schedule a health check-up. Pawsitive Life was created to simplify this process. It keeps everything organized, helps you stay on top of your pet’s needs, and connects you with trusted pet care providers.

Think of it as your **digital assistant for pet care**—always on, always ready to help.

**2.2 Key Features**

1. **Comprehensive Pet Profiles**: Store everything from medical history to diet preferences in one place.
2. **Service Booking**: Easily schedule grooming, training, or boarding sessions.
3. **Vaccination and Check-Up Reminders**: Never forget an important health milestone again.
4. **Health Analytics Dashboard**: Visualize your pet’s activity and health metrics over time.
5. **Community Engagement**: Connect with other pet owners through forums and blogs.
6. **Secure Payments**: Hassle-free transactions through trusted payment gateways.

**2.3 Breaking Down the Features**

Here’s how each feature works:

1. **Pet Profiles**  
   Create a detailed profile for each pet with essential information like:
   * Vaccination history.
   * Feeding schedules.
   * Health notes from your vet.
2. **Service Booking**  
   Find local service providers for grooming, boarding, and training. Use the built-in calendar to schedule appointments and pay securely through Razorpay.
3. **Health Analytics**  
   Stay informed with graphs showing your pet’s weight changes, activity levels, and more. The dashboard helps you identify trends and make data-driven decisions about their care.
4. **Community Forum**  
   Ask questions, share experiences, or read success stories from fellow pet owners. The forum fosters a sense of community and shared learning.
5. **Blogs and Resources**  
   Access expert-written articles on topics like pet diet, exercise, and grooming tips. Updated regularly to keep you informed.

**3. Technical Requirements**

**3.1 Software and Hardware Needs**

**For Users**

* **Operating System**: Windows, Android
* **Browser Compatibility**: Chrome, Edge.
* **Device Requirements**: Smartphones, tablets, or desktops with at least 4 GB RAM.

**For Hosting and Servers**

* **Cloud Hosting**: Scalable infrastructure to handle up to 10,000 users.
* **Server Configuration**: Minimum 16 GB RAM and SSD storage for fast performance.
* **Database**: MongoDB for secure data storage.

**3.2 How the System Works**

Here’s a simplified flow of how everything ties together:

1. **User Logs In**:  
   Users can log in with an email or social media account.
2. **Access the Dashboard**:
   * View upcoming vaccination reminders.
   * Check pet profiles.
   * Schedule services.
3. **Service Booking Flow**:
   * Choose a service (e.g., grooming).
   * Pick a provider and time slot.
   * Pay securely through Razorpay.
4. **Receive Notifications**:  
   The system sends automated email or SMS reminders for bookings or health updates.

**4. Use Cases – Real-Life Scenarios**

**Use Case 1: Booking a Grooming Appointment**

**Actors**: Pet Owner, System, Groomer.

**Steps:**

1. A pet owner logs into their account and selects their pet.
2. They navigate to the “Grooming” section and browse available providers.
3. After selecting a provider, they choose a time slot and confirm the booking.
4. Payment is processed securely via Razorpay.
5. Both the user and the groomer receive confirmation notifications.

**Use Case 2: Tracking Health Metrics**

**Actors**: Pet Owner, System.

**Steps:**

1. The pet owner logs into the dashboard and clicks on their pet’s profile.
2. They view graphs showing trends in weight, vaccination history, and activity levels.
3. Based on the data, they decide to schedule a check-up with their vet.