

App Cost Calculator

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Application Requirements Specification

Project: Pawfect Care

1. Project Overview

1.1 Purpose

The Pawfect Care application is an animal welfare management system designed for animal shelters to track and manage all aspects of their operations, including animal intake, care, medical treatment, and adoption processes.

1.2 Scope

The system shall provide comprehensive tracking of animals from intake through adoption, including medical history, dietary needs, behavioral assessment, and adopter information.

2. User Management & Authentication

2.1 User Roles

2.1.1 Admin Role

The system shall provide an Admin role with full system access and management capabilities.

2.1.2 Shelter Staff Role

The system shall provide a Shelter Staff role for daily operational tasks and animal care management.

2.1.3 Medical Role

The system shall provide a Medical role for veterinary staff to manage animal health records and treatments.

2.2 Authentication & Security

2.2.1 User Registration

The system shall provide secure user registration with email verification.

2.2.2 Login Authentication

The system shall implement secure login with encrypted password storage.

2.2.3 Password Recovery

The system shall provide a password reset functionality via email verification.

2.2.4 Session Management

The system shall implement secure session management with automatic timeout after inactivity.

2.2.5 Role-Based Access Control

The system shall enforce role-based permissions for all features and data access.

3. Core Animal Management Features

3.1 Animal Intake & Registration

3.1.1 Animal Profile Creation

The system shall allow creation of comprehensive animal profiles including species, breed, age, gender, and identifying features.

3.1.2 Photo Capture

The system shall support photo capture and storage using device cameras.

3.1.3 Intake Documentation

The system shall record intake date, source, condition at arrival, and initial assessment.

3.2 Adoption Management

3.2.1 Adopter Information

The system shall capture and store comprehensive adopter details including name, address, phone, email, and emergency contacts.

3.2.2 Adoption Application

The system shall provide digital adoption application forms with approval workflow.

3.2.3 Adoption History

The system shall maintain complete adoption history for each animal and adopter.

3.2.4 Post-Adoption Follow-up

The system shall support scheduling and tracking of post-adoption check-ins.

3.3 Medical Management

3.3.1 Medical History Records

The system shall maintain comprehensive medical histories including vaccinations, treatments, surgeries, and test results.

3.3.2 Medication Tracking

The system shall track current and past medications with dosages and schedules.

3.3.3 Veterinary Appointments

The system shall manage scheduling and documentation of veterinary appointments.

3.3.4 Medical Alerts

The system shall display prominent alerts for medical conditions and required treatments.

3.4 Dietary Management

3.4.1 Dietary Requirements

The system shall record specific dietary requirements including food types, portions, and feeding schedules.

3.4.2 Allergy Tracking

The system shall maintain records of food allergies and intolerances.

3.4.3 Feeding History

The system shall log feeding times and amounts for tracking purposes.

3.5 Well-being Tracking

3.5.1 Exercise Logging

The system shall track daily exercise activities, duration, and types.

3.5.2 Behavioral Assessment

The system shall record behavioral patterns, temperament, and socialization needs.

3.5.3 Disposition Tracking

The system shall monitor and document changes in animal disposition over time.

3.5.4 Enrichment Activities

The system shall track enrichment activities and their effectiveness.

4. Communication & Collaboration Features

4.1 Internal Messaging

4.1.1 Staff Communication

The system shall provide internal messaging between staff members.

4.1.2 Message History

The system shall maintain searchable message history.

4.2 Notifications & Alerts

4.2.1 Task Reminders

The system shall send automated reminders for scheduled tasks and appointments.

4.2.2 Medical Alerts

The system shall generate alerts for upcoming medical treatments and medication schedules.

4.2.3 System Notifications

The system shall provide in-app notifications for important updates and changes.

5. Administrative Features

5.1 Admin Panel

5.1.1 User Management

The system shall provide admin tools to create, modify, and deactivate user accounts.

5.1.2 Role Assignment

The system shall allow admins to assign and modify user roles.

5.1.3 System Configuration

The system shall provide configuration options for shelter-specific settings.

5.2 Data Management

5.2.1 Data Export

The system shall support data export in CSV and PDF formats.

5.2.2 Data Backup

The system shall provide automated data backup functionality.

5.2.3 Audit Logging

The system shall maintain audit logs of all data modifications with user attribution.

6. Reporting & Analytics

6.1 Operational Reports

6.1.1 Intake Reports

The system shall generate reports on animal intake by date range, species, and source.

6.1.2 Adoption Reports

The system shall provide adoption statistics including success rates and time-to-adoption metrics.

6.1.3 Medical Reports

The system shall generate medical cost summaries and treatment frequency reports.

6.1.4 Capacity Reports

The system shall track shelter capacity and occupancy rates.

6.2 Custom Analytics Dashboard

6.2.1 Dashboard Widgets

The system shall provide customizable dashboard widgets for key metrics.

6.2.2 Real-time Updates

The system shall display real-time updates of critical shelter metrics.

6.3 Document Generation

6.3.1 Adoption Certificates

The system shall generate printable adoption certificates with custom branding.

6.3.2 Medical Reports

The system shall generate detailed medical reports for veterinary use.

6.3.3 Financial Reports

The system shall produce financial summaries of operational costs.

7. Search & Resource Management

7.1 Search Functionality

7.1.1 Animal Search

The system shall provide comprehensive search by animal characteristics, medical status, and availability.

7.1.2 Adopter Search

The system shall enable searching of adopter records by name, contact info, or adoption history.

7.1.3 Advanced Filters

The system shall support advanced filtering options for all search functions.

7.2 Resource Library

7.2.1 Document Storage

The system shall provide a centralized library for care protocols and training materials.

7.2.2 File Downloads

The system shall support secure file downloads with access control.

7.2.3 Version Control

The system shall maintain version history for all stored documents.

8. Scheduling & Calendar Features

8.1 Calendar Management

8.1.1 Appointment Scheduling

The system shall provide calendar functionality for scheduling medical appointments and assessments.

8.1.2 Staff Scheduling

The system shall support staff shift scheduling and assignments.

8.1.3 Event Planning

The system shall manage adoption events and community outreach activities.

8.2 Task Management

8.2.1 Daily Tasks

The system shall generate daily task lists based on animal needs and schedules.

8.2.2 Task Assignment

The system shall allow task assignment to specific staff members.

8.2.3 Progress Tracking

The system shall track task completion and milestone achievements.

9. Technical Requirements

9.1 Platform Support

9.1.1 Responsive Design

The system shall be fully responsive across all device sizes including desktop, tablet, and mobile.

9.1.2 Browser Compatibility

The system shall support current versions of major web browsers.

9.2 Performance Requirements

9.2.1 Load Times

The system shall load pages within 3 seconds under normal conditions.

9.2.2 Concurrent Users

The system shall support at least 50 concurrent users without performance degradation.

9.3 File Upload Requirements

9.3.1 File Types

The system shall support upload of images (JPEG, PNG) and documents (PDF, DOC).

9.3.2 File Size Limits

The system shall enforce appropriate file size limits with clear user feedback.

9.3.3 Storage Management

The system shall implement efficient file storage with compression where appropriate.

10. Data Security & Privacy

10.1 Data Protection

10.1.1 Encryption

The system shall encrypt all sensitive data in transit and at rest.

10.1.2 Access Logs

The system shall maintain detailed access logs for security auditing.

10.2 Privacy Controls

10.2.1 Data Retention

The system shall implement configurable data retention policies.

10.2.2 Data Purging

The system shall provide secure data deletion capabilities.

11. User Experience Requirements

11.1 Interface Design

11.1.1 Clean Interface

The system shall provide a clean, functional interface focused on usability.

11.1.2 Intuitive Navigation

The system shall implement clear navigation patterns consistent throughout the application.

11.2 Accessibility

11.2.1 Accessibility Standards

The system shall comply with WCAG

2.1 Level AA accessibility standards.

11.2.2 Mobile Optimization

The system shall provide optimized mobile interfaces for field use.

End of Requirements