Functional Requirements Document

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PET ADOPTION SYSTEM

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1. Introduction

1.1 Purpose

The purpose of this document is to outline the functional requirements for the Pet Adoption System. It serves as a guide for the development team, and end-users by detailing the system's intended features, user interactions, and constraints. The document aims to ensure a clear and mutual understanding of the system's capabilities and limitations before the development process begins.

1.2 Scope

The Pet Adoption System is designed to facilitate the adoption process for animal shelters and potential adopters. The scope includes user login and register, profile management, pet listing, adoption requests, pick-up scheduling, and notifications. The system will be accessible by shelter admins and adopters through a web-based interface and will manage the complete lifecycle of pet adoptions, from initial listing to final adoption.

1.3 Definitions, Acronyms, and Abbreviations

- Adopter: A user interested in adopting a pet from a shelter.
- Shelter Admin: A user responsible for managing the shelter's operations, including pet listings, adoption processes, and system administration tasks.

2. Overview

The Pet Adoption System is a web-based application designed to streamline the process of adopting pets from animal shelters. It enables users to browse available pets, submit adoption requests, schedule pick-ups, and receive notifications related to their adoption journey. The system aims to improve the efficiency of shelter operations by automating routine tasks and providing a user-friendly platform for both shelter admins and adopters. This document outlines the functional requirements necessary to build and operate the system, ensuring that all parties involved have a clear understanding of its features and behavior.

3. Overall Description

3.1 Product Perspective

The Pet Adoption System is a standalone application intended to replace manual processes currently used in animal shelters. The system will function as the primary interface between the shelter and potential adopters to provide a seamless and efficient adoption experience.

3.2 User Classes and Characteristics

- Adopters: Individuals interested in adopting a pet. They can browse pets, submit adoption requests, schedule visits, and receive notifications.

- o Characteristics: Non-technical users with a basic understanding of web applications. They seek an easy-to-use interface and straightforward processes.
- Shelter Admins: Users responsible for managing the shelter's operations, including pet listings, adoption processes, and system administration tasks such as user management.
  - o Characteristics: Technically proficient users who handle both the administrative functions and day-to-day operations of the shelter, including managing pet data, processing adoption requests, and overseeing system performance.

3.3 Assumptions

- Users will have access to the internet and a web browser to interact with the system.
- Basic familiarity with web applications
- All data entered by users (e.g., pet information, user profiles) is accurate and updated regularly.

3.4 Constraints

- The system must be user-friendly for both adopters and shelter admins, requiring minimal technical knowledge to operate
- The system must comply with any relevant data protection laws and shelter policies to ensure legal and ethical use.

4. Functional Requirements

4.1. User Registration and Authentication

Description	Users can create an account, and log in using their credentials.
Input	Username, password, Email
Output	Account Creation Confirmation, User Dashboard
Processing	Verify Credentials, create user sessions
Security	Password encryption

4.2 Profile Management

Description	Users can update their profile information.
Input	User ID, profile details (e.g., name, contact info)
Output	Confirmation message, updated user profile
Processing	Validate input, update the database with new profile information

4.3　Pet Listing

Description	Shelter staff can add new pets with basic information.
Input	Pet Name, Species, Breed, Age, Status
Output	Confirmation Message
Processing	Save pet details in the database, update available pets list.

4.4　Adoption Request

Description	Users can submit requests to adopt a pet.
Input	Pet ID, User ID
Output	Adoption Request Confirmation
Processing	Save request in the database, notify shelter staff.

4.5　Pick Up Scheduling

Description	Users can schedule a pick-up time to collect their adopted pet.
Input	User ID, Pet ID, Pick-Up Date/Time
Output	Pick-Up Scheduled Confirmation
Processing	Save pick-up details in the database, notify shelter staff.

4.6　Notifications

Description	Users receive notifications about their adoption status.
Input	User ID, Request Status, Visit Details
Output	Notification Message
Processing	Retrieve relevant data, send notifications via email/app.