**petSearch.com**

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**Technical Field**

This project involves the technical fields of E-commerce, Pet Management systems and location-based services for lost pets integrating both software and hardware inputs.

**Background Information.**

The inspiration for petSearch.com emerges from growing need to integrate the various aspects of pet ownership into a single platform. The idea originated from the observation that pet owners often struggle to find a reliable source for purchasing pets and accessing pets related products and locating lost pets, efficiently. petSearch.com aims to address these challenges by providing a unified platform that combines e-commerce, a pet marketplace and innovative lost pet, recovery services making pet ownership more accessible and stress free.

**Prior Art**

This project incorporates elements from several existing platforms and services. Prior art includes:

[Chewy.com:](#_top) An e-commerce platform specializing in pet products and subscription services. URL

[Petfinder.com:](#_top) A website that connects prospective pet owners with pets available for adoption from various shelters. URL

[Tile Tracker:](#_top) A location-based service that uses Bluetooth technology to help locate lost items, adapted here for use with pets. URL

**Project Description**

PetSearch.com is an inclusive platform designed to support various aspects of pet ownership. It offers a verifiable pet marketplace for purchasing pets from verified breeders and shelters, an e-commerce store featuring pet products, and advanced services for locating lost pets using GPS technology and community alert systems. The platform aims to serve pet owners across the United States, with plans for global expansion. Users include current and prospective pet owners, breeders, and rescue organizations looking for a streamlined, secure, and comprehensive solution to pet related needs.

**Innovation Claim**

This project’s innovation comes from its comprehensive approach to pet ownership, integrating e-commerce, pet management, and lost pet recovery services into a single platform. PetSearch.com is innovative because it offers a seamless user experience, addressing multiple needs within the pet industry at a more convenient way of doing things and faster**.**

**Usage Scenario**

In addition to its primary functions, PetSearch.com could be used to support local animal shelters by creating a centralized database of adoptable pets, promoting adoption events, and facilitating donations. The platform can also be expanded to offer pet-related services such as pet-friendly travel planning, thereby supporting pet owners in various aspects of pet care and lifestyle.

**Evaluation Criteria**

The following questions will identify the successful completion of the project:

1.Does the platform successfully integrate e-commerce, pet marketplace, and lost pet recovery services?

2.Is the pet marketplace capable of securely verifying breeders and shelters?

3.Are users able to successfully track lost pets using GPS technology?

4.Does the e-commerce system support a variety of pet products and subscription services?

5.Is the platform user friendly and accessible across different devices?

**Objectives and Tasks Associated with the Project**

**Objective 1:** Develop a Secure and Scalable E-commerce Platform.

**Task 1.1:** Design and implement a secure payment gateway for purchasing pet products.

**Task 1.2:** Integrate inventory management and order processing systems.

**Task 1.3:** Implement a subscription service for recurring orders.

**Objective 2: Build a Comprehensive Pet Marketplace.**

**Task 2.1:** Develop a vetting system for breeders and shelters.

**Task 2.2:** Create detailed pet profiles including health records and adoption requirements.

**Task 2.3:** Implement a user-friendly interface for searching and browsing available pets.

**Objective 3: Implement Advanced Lost Pet Recovery Services.**

**Task 3.1:** Integrate GPS tracking devices compatible with the platform.

**Task 3.2:** Develop a community alert system for notifying local users about lost pets.

**Task 3.3:** Establish partnerships with local shelters for quicker pet recovery.