

SENIOR PROJECT PROPOSAL

Title of the Project: Pets Connected

Project Team:

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Introduction / Background / Overview

In the age of digitalization, the bond between humans and their pets remains timeless. Recognizing the growing need for a centralized platform catering to pet lovers, we envisioned an all-encompassing app called “Pets Connected”. Pets Connected, designed for iOS, Android, and the web, serves four primary objectives: facilitating pet adoptions, daycare and connecting pet parents with loving pet sitters and pet walkers, connecting pet owners for ethical breeding opportunities, and aiding in the swift location of veterinary services, animal shelters and pet stores. With the rise in pet ownership and an increasing trend of adopting rather than shopping, our application aims to be the nexus of the pet community, ensuring that pets receive loving homes, professional breeding opportunities, finding people that take care for their pet and locate services about their pets. By leveraging cutting-edge technology and prioritizing user experience, we strive to cultivate a platform that addresses the diverse needs of the global pet community.

Existing Problems:

1. People (General Public):

- a) Lack of Awareness: Many individuals are unaware of the number of pets waiting for adoption in shelters, leading to the purchase of pets from breeders, sometimes of dubious reputation, rather than adopting.
- b) Misinformation: Due to countless unverified online sources, there's a prevalence of misinformation regarding pet care, leading people to adopt pets without a clear understanding of their requirements, leading to potential neglect or abandonment.
- c) Access to Resources: For people considering adopting or purchasing a pet, finding consolidated resources on pet care, adoption procedures, or ethical breeding practices can be challenging.

2. Pet Owners:

- a) Difficulty in Rehoming: In unfortunate circumstances where pet owners can no longer care for their pets, finding a loving home or an ethical rehoming solution can be daunting and emotionally taxing.
- b) Breeding Challenges: Pet owners looking to ethically breed their pets might find it hard to find suitable, healthy partners, leading them to sometimes rely on less-than-reputable breeding services.
- c) Medical Care: Pet owners often struggle to find nearby vet services quickly, especially during off-hours, leading to potential health risks for their pets.

- d) **Difficulty in finding pet-sitters:** Pet owners often face challenges with securing trustworthy care for their animals when away from home. Reliable pet-sitting is about more than just basic needs; it ensures emotional well-being and routine continuity. However, the absence of a centralized platform connecting owners with credible sitters makes this task daunting, causing stress for both owner and pet.

3. Animal Shelters:

- a) **Overcrowding:** Many shelters, particularly in urban areas, face issues of overcrowding, making it hard to provide adequate care for all animals, resulting in stress, disease spread, and sometimes, sadly, euthanasia of healthy animals.
- b) **Limited Outreach:** Shelters often have limited resources and find it challenging to reach potential adopters, leading to decreased adoption rates and awareness about their existence and needs.
- c) **Funding and Resources:** Shelters operate mainly on donations and grants. The fluctuation in funding makes it hard to maintain consistent levels of care, staff salaries, and facility upkeep, affecting the well-being of the animals housed.

For us the biggest reason for these problems is a platform for people to speak out their needs in terms of their pets.

Aims and Objectives

Aim:

- Our aim is to develop a comprehensive, user-friendly digital platform that addresses the prevalent challenges faced by the general public, pet owners, and shelters, fostering a well-informed and connected pet

community, and ultimately promoting ethical pet adoption, breeding, and care.

Objectives:

- **Facilitate Ethical Adoptions:** Create a streamlined process where potential adopters can easily connect with pets in need of homes, ensuring a higher adoption rate and reduced shelter overcrowding.
- **Enhance Breeding Opportunities:** Offer a platform for pet owners to find compatible and healthy breeding partners, promoting ethical breeding practices and discouraging indiscriminate or harmful breeding.
- **Pet-Sitting and Boarding:** Enable pet owners to find trustworthy individuals to care for their pets during short-term absences, vacations, or other commitments.
- **Optimize Veterinary Accessibility:** Implement a locator feature for users to swiftly find and contact nearby veterinary clinics and emergency services.
- **Promote Shelter Visibility:** Augment the outreach and visibility of animal shelters, thereby increasing awareness, adoption rates, and potential donor contributions.
- **Educate the Public:** Provide a repository of verified and trustworthy resources on pet care, breeding, adoption processes, and more, reducing misinformation and enhancing pet well-being.
- **Ensure User Security & Privacy:** Prioritize data encryption, strong authentication, and transparent data usage policies to safeguard user information and cultivate trust.

- Regularly Update & Improve: Commit to iterative feedback-driven improvements, ensuring the platform remains relevant, user-friendly, and beneficial to the evolving needs of the pet community.

Expected Outcomes/Deliverables

- An IOS based mobile application for people, animal shelters and pet owners.
- An Android based mobile application for people, animal shelters and pet owners.
- A Web application for people, animal shelters and pet owners.
- Admin panel for shelter approvals, user deletion and banning.
- A platform where users can find and book credible pet-sitters for their pets during their absences.
- An integrated map system that provides real time location services for veterinary clinics, shelters and pet stores.
- A user-friendly communication module allowing users to interact within the platform.
- A secure database with relevant back-end services.
- General information page prepared for each pet breed.
- Push notification system.

Use-case Point Complexity

Factor Number	Description	Is its importance average or above for the project? (Write YES if it is)	Reasons
T1	Distributed system	Yes	We have 2 mobile platforms, 2 web application(admin panel and web app) and back-end services.
T2	Response time/performance objectives		
T3	End-user efficiency		
T4	Internal processing complexity		

T5	Code reusability		
T6	Easy to install	Yes	Our Android and iOS applications will be published on mobile app stores, and users will be able to install them with just one click.
T7	Easy to use	Yes	Our apps will be tested by real users and also several tasks will be assigned to users to measure if they complete it without assistance.
T8	Portability to other platforms		
T9	System maintenance		
T10	Concurrent/parallel processing		
T11	Security features	Yes	We will keep sensitive informations encrypted and data will not be accessible for unauthorized people. Also requests will be sent via Https.
T12	Access for third parties		
T13	End-user training		

Type of Project

Multi-platform app

Keywords

Pet, animal, adoption, pet breeding, shelters, animal shelters, dog, cat, kitten, pet breeding app, location, data safety, puppy, pet encyclopedia, veterinarian, vet, nearest vet, nearest animal shelter , daycare, pet-sitter, pet-boarding

Related Research

1. Sahibinden

Link: <https://www.sahibinden.com/kategori/hayvanlar-alemi>

Missing parts: Not easy to use, bad user interface and user experience and it's not specifically for pets.

2. Pet Finder

Link: <https://www.petfinder.com/>

Missing parts: Not available in Europe and Asia and there is no option for pet breeding.