PET ADOPTION PLATFORM

Project Report

Submitted in partial fulfilment of the requirement of the degree of

BACHELORS OF COMPUTER APPLICATIONS

to

K.R Mangalam University

by

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Under the supervision of

Dr. Vandna Batra

DECLARATION

We hereby declare that the mini project report titled “Pet Adoption Platform” submitted in partial fulfilment of the requirements for the award of the degree of Bachelor of Computer Applications (BCA)is a bonafide record of original work carried out by us under the guidance of Dr. Vandna Batra Department of Computer Science , KRMU .This project has not been submitted previously by us or any other person for the award of any degree, diploma, or similar title in any university or institution.

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CERTIFICATE OF ORIGINALITY

This is to certify that the mini project report titled

“Pet Adoption Platform”

submitted by the following students:

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in partial fulfilment of the requirements for the award of the degree of Bachelor of Computer Applications (BCA),is an original work carried out by them under the supervision of Dr Vandna Batra.

Abstract

The Pet Adoption Platform is a web-based application designed to bridge the gap between animal shelters and individuals seeking to adopt pets. Traditional adoption processes are often time-consuming, fragmented, and limited in reach, which can result in many animals remaining in shelters for extended periods. This project aims to simplify and digitize the adoption process by providing a centralized platform where users can browse available pets, filter based on preferences, and submit adoption applications online.

The system supports role-based access for adopters and shelter administrators, enabling efficient pet listing management, real-time

updates, and streamlined communication. Developed using modern web technologies, the platform enhances transparency, promotes responsible pet ownership, and increases the chances of successful pet adoptions. This project not only showcases the application of software development skills but also contributes to addressing a meaningful social issue.

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INTRODUCTION

In recent years, the increasing number of abandoned and homeless pets has highlighted the urgent need for efficient and accessible pet adoption solutions. Traditional adoption processes often involve fragmented communication, limited reach, and lack of transparency, which can hinder potential adopters from finding the right companion. To address these challenges, our project introduces a comprehensive Pet Adoption Platform—a user-friendly, digital solution designed to connect animal shelters, rescue organizations, and prospective pet owners on a centralized platform.

This platform streamlines the adoption process by allowing users to browse available pets, filter search results based on preferences, and submit adoption

applications online. It also empowers shelters to manage pet listings, update statuses in real-time, and communicate directly with interested adopters. By leveraging modern web technologies, the Pet Adoption Platform aims to increase adoption rates, reduce shelter overcrowding, and ultimately improve the lives of both pets and adopters.

PROBLEM STATEMENT

Despite the growing awareness of animal welfare, thousands of pets remain in shelters each year due to inefficient adoption processes, limited outreach, and lack of streamlined communication between shelters and potential adopters. Traditional methods often rely on manual record-keeping, in-person visits, and inconsistent

information sharing, making it difficult for interested individuals to find suitable pets and for shelters to manage adoptions effectively.

There is a clear need for a digital solution that bridges this gap by providing a centralized, accessible, and efficient platform to support pet adoption. Without such a system, many animals face prolonged stays in shelters or risk being overlooked entirely, while potential adopters may abandon the process due to inconvenience or lack of information.

This project aims to solve these issues by developing a modern Pet Adoption Platform that facilitates seamless interaction between shelters and adopters, improves pet visibility, and increases the rate of successful adoptions

OBJECTIVE

The primary objective of the Pet Adoption Platform project is to develop a digital solution that simplifies and enhances the pet adoption process by:

Connecting animal shelters and potential adopters through a centralized, user-friendly online platform.

Improving accessibility and visibility of adoptable pets by enabling real-time listings with detailed profiles and images.

Streamlining the adoption workflow, including search, application submission, and communication between users and shelters.

Reducing the number of homeless animals by increasing successful adoptions and promoting responsible pet ownership.

Empowering shelters and rescue organizations with tools to efficiently manage pet records, monitor applications, and engage with the community.

This platform aims to create a positive impact on animal welfare by making pet adoption easier, faster, and more transparent.

System Analysis

1. Existing System

The current pet adoption process in many regions is largely manual or semi-digital. Most animal shelters maintain pet information using spreadsheets or physical records. Potential adopters must visit shelters in person or rely on scattered social media posts and websites to find pets. This results in:

Limited reach and awareness about adoptable pets.

Lack of centralized information, making it hard to compare or search for pets.

Inefficient communication between shelters and adopters.

Time-consuming application and approval processes.

This system often discourages potential adopters and delays pet placements, leaving many animals in shelters for extended periods.

2. Proposed System

The Pet Adoption Platform is a web-based system designed to modernize and streamline the pet adoption process. It provides a centralized, easy-to-use interface where:

Shelters can register, add pet profiles (with photos, breed, age, health info, etc.), and manage adoption applications.

Users can browse pets, filter based on preferences (species, breed, age, location), and apply for adoption online.

Admins can oversee platform operations and ensure data integrity.

Key Features:

User registration and login (shelter & adopter roles)

Pet listing and search functionality

Online adoption application form

Pet profile management (CRUD operations)

Admin dashboard (optional)

Real-time updates on pet availability

3. Feasibility Study

a. Technical Feasibility

The platform can be built using widely available technologies such as:

Frontend: HTML, CSS, JavaScript, Bootstrap

Backend: PHP / Python (Django or Flask) / Node.js

Database: MySQL / PostgreSQL

Hosting options (e.g., Heroku, Vercel, or shared hosting) make deployment accessible and cost-effective.

b. Economic Feasibility

As a mini project, the platform can be developed using open-source tools.

No significant hardware or licensing costs are required.

c. Operational Feasibility

The platform is intuitive and user-friendly, requiring minimal training.

It addresses real-world needs, making it likely to be accepted by both users and shelters.

4. Advantages of the Proposed System

Centralized platform for managing adoptions.

Increases pet visibility and adoption chances.

Simplifies communication and reduces delays.

Enhances transparency and record-keeping for shelters.

PROJECT SETUP AND TECHNICAL DETAILS

###HTML Structure
- Semantic HTML5 elements
- Accessible markup
- Modular component structure

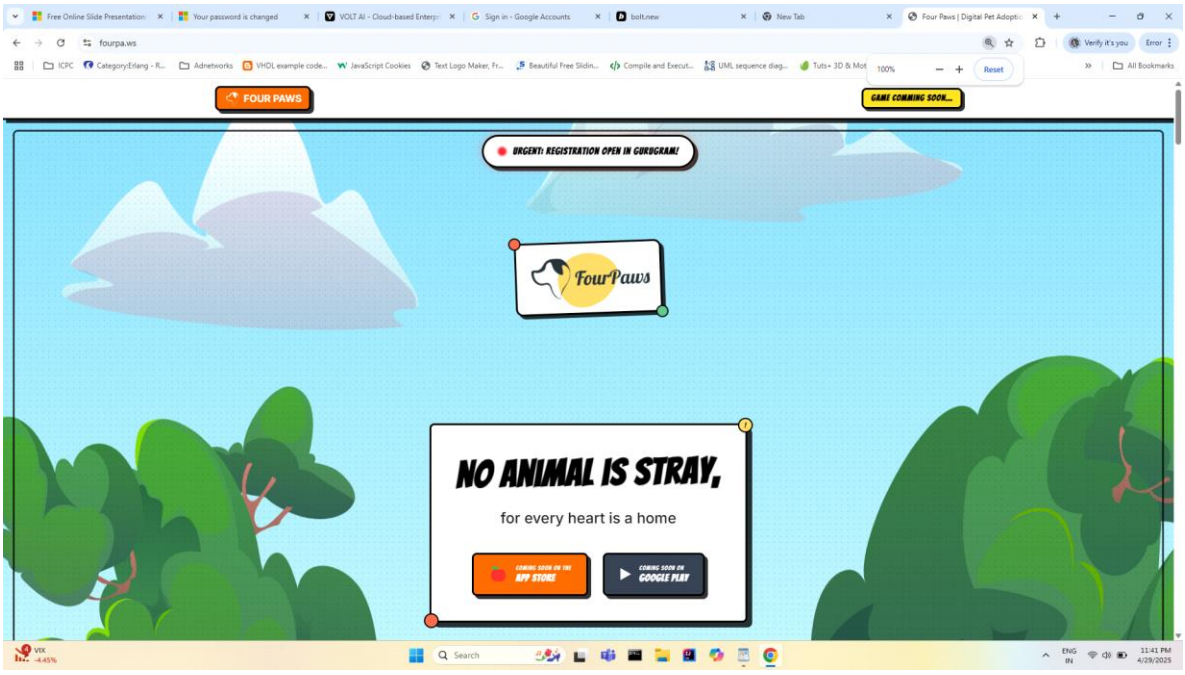
CSS Features
- Custom CSS properties (variables)
- Flexbox layout system
- CSS Grid for responsive design
- Custom animations and transitions
- Mobile-first approach
- Comic-style UI system

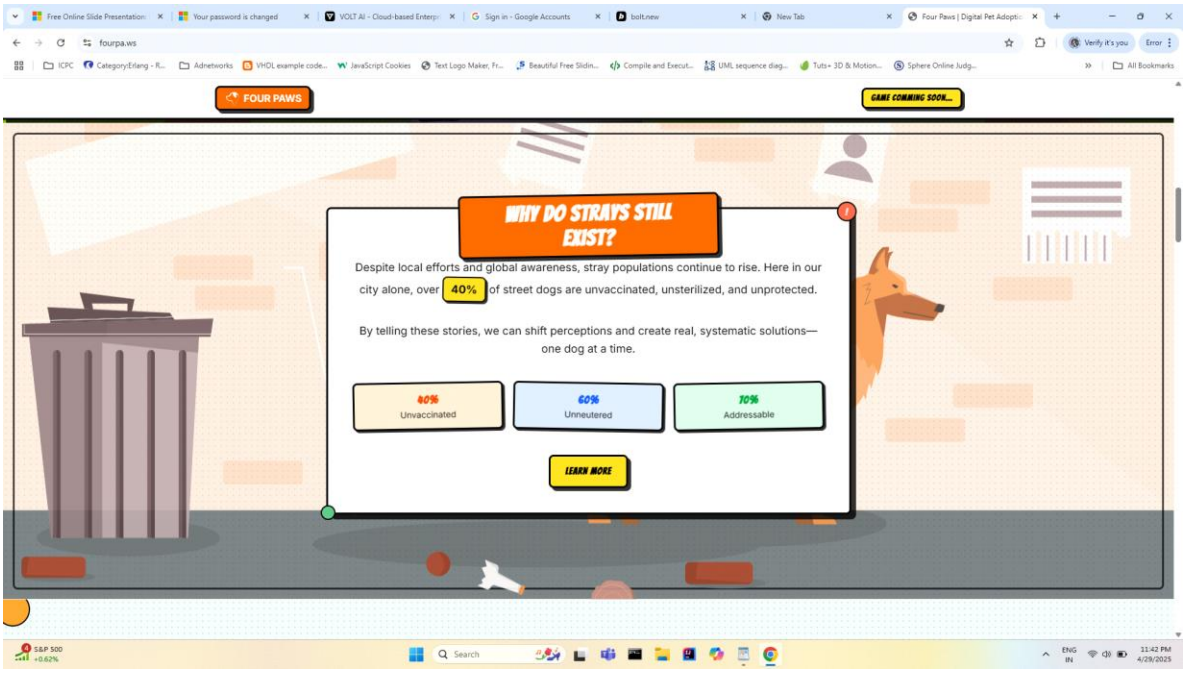
Animations
- Smooth page transitions
- Interactive hover effects
- Loading animations
- Comic-style pop-ups

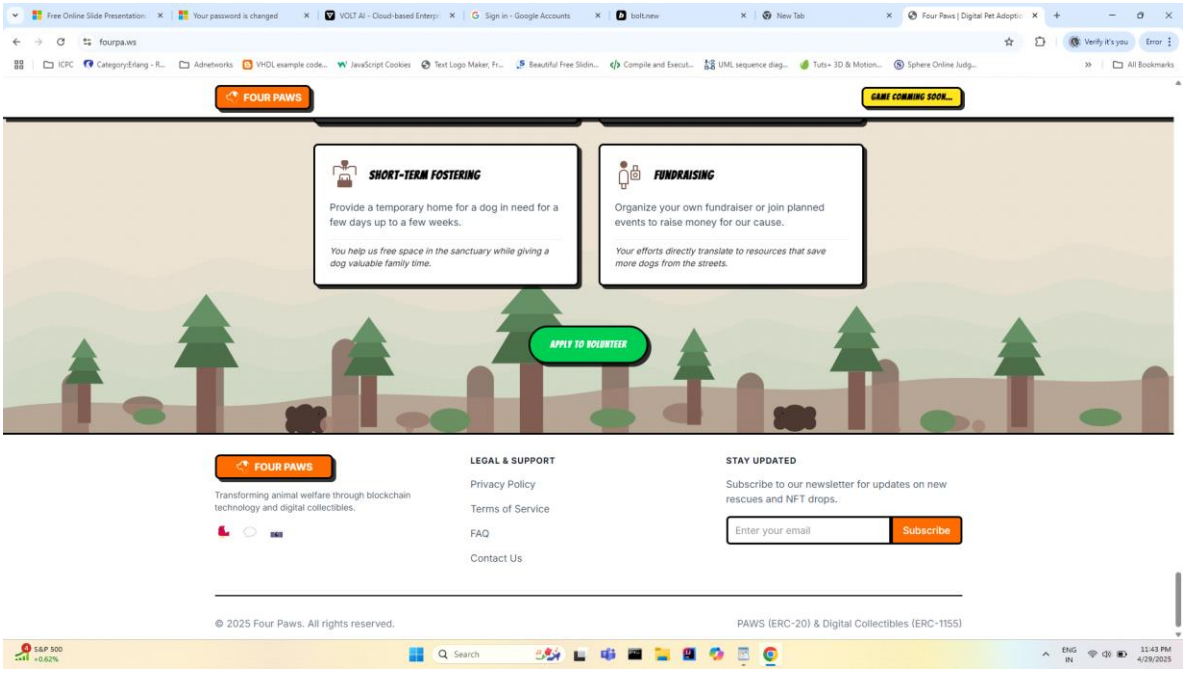
Browser Support

- Chrome (latest)
- Firefox (latest)
- Safari (latest)
- Edge (latest)
- Mobile browsers

RESULTS


FOUR PAWS
GAME COMMING SOON...
URGENT: REGISTRATION OPEN IN GURUGRAM!
FourPaws
NO ANIMAL IS STRAY,
for every heart is a home
APP STORE
GOOGLE PLAY


FOUR PAWS
GAME COMMING SOON...
WHY DO STRAYS STILL EXIST?
Despite local efforts and global awareness, stray populations continue to rise. Here in our city alone, over 40% of street dogs are unvaccinated, unsterilized, and unprotected.
By telling these stories, we can shift perceptions and create real, systematic solutions—one dog at a time.
40% Unvaccinated
60% Unneutered
70% Addressable
LEARN MORE


FOUR PAWS
GAME COMMING SOON...
SHORT-TERM FOSTERING
Provide a temporary home for a dog in need for a few days up to a few weeks.
You help us free space in the sanctuary while giving a dog valuable family time.
FUNDRAISING
Organize your own fundraiser or join planned events to raise money for our cause.
Your efforts directly translate to resources that save more dogs from the streets.
APPLY TO VOLUNTEER
FOUR PAWS
Transforming animal welfare through blockchain technology and digital collectibles.
LEGAL & SUPPORT
Privacy Policy
Terms of Service
FAQ
Contact Us
STAY UPDATED
Subscribe to our newsletter for updates on new rescues and NFT drops.
Enter your email
Subscribe
© 2025 Four Paws. All rights reserved.
PAWS (ERC-20) & Digital Collectibles (ERC-1155)

Conclusion

The Pet Adoption Platform project successfully addresses the key challenges faced in the traditional pet adoption process by offering a centralized, user-friendly, and efficient digital solution. Through this platform, we have streamlined the adoption workflow, making it easier for animal shelters to manage pet listings and for potential adopters to find suitable companions based on their preferences.

By integrating essential features such as real-time pet listings, adoption application forms, and role-based access for users and shelters, the platform enhances visibility, reduces manual workload, and fosters quicker communication. Ultimately, it aims to improve adoption rates and promote responsible pet ownership, contributing to better animal welfare.

This project not only demonstrates the practical application of web development technologies but also highlights the potential of digital solutions in solving real-world social issues. Going forward, the platform can be further enhanced with features like chat support, veterinary integration, and mobile responsiveness to reach a wider audience and make an even greater impact.

Future Work

While the current version of the Pet Adoption Platform provides a solid foundation for connecting animal shelters with potential adopters, there are several areas where the system can be further improved and expanded:

Mobile Application Development: Creating a dedicated mobile app for Android and iOS to enhance user accessibility and provide a more seamless experience on smartphones and tablets.

Real-Time Chat Feature: Implementing a live chat system between adopters and shelter representatives to enable quick communication and clarification of doubts.

AI-Powered Pet Matching: Integrating machine learning algorithms to recommend pets to users based on their preferences, previous searches, and behavioral compatibility.

Veterinary Integration: Allowing users to book veterinary appointments, access health records, and receive reminders for vaccinations or checkups.

Donation and Volunteer Module: Adding features to support donations to shelters and enable users to sign up as volunteers for animal care or events.

Adoption Status Tracking: Enabling users to track the status of their adoption application in real time and receive notifications on updates.

Multilingual Support: Including multiple language options to make the platform accessible to a broader audience, especially in diverse regions.

Security Enhancements: Adding more robust authentication, data encryption, and privacy controls to protect user data and prevent misuse.

These enhancements would not only improve functionality and user experience but also increase the platform's impact on promoting pet adoption and animal welfare.