

Pet Adoption and Pet Essentials Supply

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Abstract

This is a web application project for pet adoption and welfare. It highlights the fact that many people rely on local markets or nearby houses to get a pet, and that currently available animal shelters do not provide an interactive system. The project aims to provide a helping hand for anyone looking to adopt a homeless dog or cat and give them a loving and proper shelter. The website will provide information about pet breeds and adoption rates, and a platform to check pets' health. The goal is to reduce the number of stray animals in public places. The web application also allows users to purchase necessary pet products such as food, grooming items, and medicines. The project's main idea is to provide a user-friendly interface that automates the process of serving pets' welfare and provides guidelines for caring for them.

Keywords: Pet adoption system, Pet essential supply.

1. Introduction

The pet adoption industry has grown rapidly in recent years, and more and more people are turning to animal shelters to adopt a furry friend. However, some animal shelters are not equipped to provide pets with the proper care and attention they need. This is where the idea of a web application for pet adoption and welfare comes into play. The aim of this project is to develop a user-friendly platform that not only facilitates pet adoption but also ensures the overall welfare of pets. The web application will provide users with all the necessary information on available breeds, the health status of pets, and guidelines on pet care. Moreover, the application will also offer users the opportunity to purchase necessary pet products such as food, grooming products, accessories, and medicines. By doing so, the project intends to contribute towards reducing the number of stray animals in public places while giving abandoned pets a place of shelter and care.

Our project for adopting pets aims to assist stray animals in finding a safe home where they can live out their lives in peace and receive care and attention. A country like India faces many difficulties, including lack of housing, financial restrictions, practical obstacles, and a lack of behavioral knowledge about stray animals, which leads individuals to purchase breed dogs and cats rather than adopting from shelters. In India, adopting a dog or cat typically involves

purchasing them from a store or a breeder.

Only a very few people that adopt stray animals in our country. According to the State of Pet Homelessness Index data for India, there are around 62 million stray dogs and 9.1 million street cats in the country. 85% of companion animals there are homeless, and 77% of the population reports seeing a stray dog at least once a week. The new index estimates that there are nearly 8 million homeless dogs and cats in the nation, including 62 million street dogs and 9.1 million street cats. According to the statistic, 85% of companion animals in India are without a home.

2. Literature Survey

Before creating the project, a number of recent approaches, like "JSP-based Pet Adoption System" 2019 International Conference on Virtual Reality and Intelligent Systems (ICVRIS), were researched. The four modules that make up the ICVRIS system are user management, pet management, pet adoption, and pet statistics. We used the SSM framework, bootstrap framework, several plug-ins, and related JSP technologies, together with Vs-Code, MongoDB, and other tools. The COVID-19 pandemic devastated several industries, but the U.S. pet industry had a phenomenal year, increasing sales by 9% and boosting overall pet industry sales to \$107 billion, as per a new analysis from MarketResearch.com.

The increase in pet adoptions and purchases has contributed towards significant growth in e-commerce also. According to a survey conducted by Packaged Facts in February 2021, 40% of consumers who buy pets items said that COVID-19's effects have led them to shop more frequently online for their pets which makes online store for pet product more relevant and economical. Before creating the project, a number of recent approaches, like "JSP-based Pet Adoption System" 2019 International Conference on Virtual Reality and Intelligent Systems (ICVRIS), were researched.

For the computation of Body Condition Score, we have referred sites of National library of medicine, The American Animal Hospital Association a non-profit organization for companion animal veterinary hospitals, etc. BCS is a quantitative and subjective method for evaluating body fat of pets. Despite the diversity of canine and feline body types, there is a formalized system for measuring BCS. There are two widely accepted BCS scales used, one with a range of 1–5 and the other with a range of 1–9. It takes visualization and touch to assign a score to your pet. This calculation helps the pet owners to find ideal weight for their pets.

3. Methodology

Existing System:

In the current system, if a user wishes to adopt a pet, he or she must call and visit animal shelters. When the person enters the pet shop, they'll pick their pet primarily based totally on their preferences. If the user loves the pet and wants to adopt it, he or she must fill out an application form. After completing the application procedure, the customer must wait for a period of (24 - 48 hrs.). On receiving clearance from the pet business owner, the user may sign a contract and pay the money. They must go through a trial period after adopting the pet. There is an additional task to the users need to find a store to purchase the essential items that are needed for their pets. The availability of such shops are less and it is difficult for the user to find such shops.

Proposed System:

The proposed system covers the major limitations of existing system. The suggested technology allows users to identify possible pets, making the adoption

process more efficient. It assists the user by presenting all of the information needed to make an educated choice.

Users can also be able to give their pets for adoption if they are not able to provide a proper care. Users may also chat with the client once they begin the adoption process. The technology delivers a smooth experience for adopters, allowing them to concentrate on finding the pet of their dreams. Users can also calculate the body conditioning score to see whether their pets are healthy or not. In addition to that, the user can also keep track of their pets BCS score. Users is also be able to purchase the essential products for their pets using the application.

Some of the advantages of the proposed system are:

- ☐ Users do not have to contact the administrators to know the results of their adoption. They can view their result of their adoption request on their home page.
- ☐ The reports and information are kept in electronic form and can be easily maintained by the administrators and they can access the records whenever they want to.
- ☐ All reports are kept in an electronic files so that they may last longer and have less chance of being lost or damaged.
- ☐ Administrators can easily manage records such as the user's records, animal records, request records, and product records in the system.

4. Conclusion

The described system makes the adoption process more effective by enabling users to identify potential pets of their choice. The application provides every piece of information, about the pet, required to make a wise decision before the adoption. If any pet owner is unable to offer their pets the care they need, they can also give their animals up for adoption instead of throwing them away in the street .In this way the application tries to provide a solution to control large numbers of stray animals. The administrators approve only pets who are healthy through which the user can ensure that the pets they adopt suits them. The donor and the adopter can also start the adoption process by chatting with each other through the system. Adopters enjoy a seamless adoption process, which frees up their attention to focus solely on discovering the pet of their dreams.

The body conditioning score can be calculated by users to determine whether or not their dogs or cats are healthy. They can also keep track of their pets' health through the system. Using this application, users might be able to buy the essentials for their pets. Overall the application provides a complete solution for pet lovers.

5. Future Enhancement

Currently our application checks the health condition of animals through BCS which only determines whether the pet falls in ideal physical condition. It does not check about the medical condition of the pet. Hence to overcome this, we can develop a system that predicts the health condition of the animal when the user enters required details. Also we can develop a system that focuses on identifying skin diseases when the images are uploaded. The application we developed is a web application, this can also be implemented as a mobile application. A Veterinarian section where people can contact vets for any help regarding their pet's health care can also be included. The current chat system does not support multimedia that can also be included.

6. References

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