

A Review on Promoting Animal Welfare and Salvation in an Online Platform Encompassing Wide Range of Stakeholders

Shrinidhi N

Assistant Professor,

Department Of Computer Science and Engineering
Moodlakatte Institute of Technology Kundapura
Udupi Karnataka, India

Swathi P

Undergraduate Scholar,

Department Of Computer Science and Engineering
Moodlakatte Institute of Technology Kundapura
Udupi Karnataka, India

Tejesh Naik

Undergraduate Scholar,

Department Of Computer Science and Engineering
Moodlakatte Institute of Technology Kundapura
Udupi Karnataka, India

Vachana V C

Undergraduate Scholar,

Department of Computer Science and Engineering
Moodlakatte Institute of Technology Kundapura
Udupi Karnataka, India

Abstract:- The survey is regarding the treatment of animals by people and how to improve the condition. It is an online platform where people can adopt pets. Though there are animal shelters but some of them are cruel towards stray animals. This study looks at the significant increase in research activity that has occurred in the field of animal sheltering in the last few decades, encompassing a wide range of stakeholders from academic institutions to commercial businesses to the governmental sector. Improving shelter programs, procedures, and results for all parties involved animals, people, communities, wildlife, and the environment is the main objective. The study outlines research areas within a conceptual framework that is structured: animal behaviour, adoptions and special needs populations, medical issues and disease transmission, community, ecology, and wellness (one health), operations, and collaboration between public, private, academic, and corporate sectors. Every field is examined for particular difficulties, and successful cases from previous decades are emphasized. The article promotes technology further in the field of practical applications as well as research.

Keywords:- Animal Rescue; React Native; Mobile Web Apps; HTML5 Apps; Javascript; Firebase.

I. INTRODUCTION

Every year, millions of animals are abandoned or lost. Many of these animals end up in shelters, where they may be euthanized if they are not adopted. The compassionate goal of animal rescue is to assist animals who find themselves in difficult circumstances. It entails rescuing and tending to animals that have been mistreated, left behind, or are in trying situations. Giving these creatures another shot at a happy existence is the aim. Rescue missions frequently involve intervening in times of need, like natural disasters, or in cases

of cruelty. Animals that have been rescued could require medical care, behavioral counseling, and time to recover psychologically. Similar to foster homes or facilities, temporary shelters offer animals a secure environment while they heal or wait to be adopted. A crucial step in the adoption process is finding loving families through adoption programs. Additionally, animal rescue groups promote legislation that would allow individuals to own pets responsibly and educate the public about.

II. OBJECTIVES

Giving animals in need a helping hand and enhancing their general well-being are the main goals of animal rescue. This involves removing animals from abusive, neglected, or life-threatening circumstances. After they're saved, the emphasis switches to rehabilitation, which includes giving them both medical attention and psychological support to help them heal. In order to give the animals a comfortable place to stay throughout this process, temporary shelters are supplied. Another important goal is to use adoption programs to find qualified and caring homes. Animal rescue groups also work to promote legislation that shields animals from harm and educate the public about proper pet ownership. With their time and expertise, volunteers are essential to these efforts. The ultimate objective is to build a more.

III. LITERATURE SURVEY

“Wireless search and rescue command system based on live animals” by Jiqiang Laun- live animal and electrical devices have been organically incorporated, and a wireless search and rescue chain of command has been conceived and designed with an eye toward the unique characteristics and limitation of police dogs and robots in the sectors of counter terrorism and rescuing [1].

“Critical problems in animals sheltering, a conceptual analysis” by Kevin Horecka- this review paper explains the critical problems faced in sheltering the animals they have made the conceptual analysis over the several past decades from the academic organization, private organization, public entities, and even corporation that aims to improve shelter programs, process, operations [2].

Yarn doesn't require repeated downloads of packages because it stores all of the ones it has downloaded in its cache. Yarn is a safe, dependable, and quick software. The salient characteristics of yarn are that the package has strong network performance, is predictable, and can operate in offline mode. [3]

“The development and application of biological of search and rescue robot system” by Fu Sheng Zhang, Jia Zhong Xu, Gordon Zheng – dogs are human friend. In order to save more lives after a disaster, this paper gives a framework for holographic in disaster search and rescue system, summarizes the development, application and characteristics of the conventional SR robots, put forward a kind of integration scheme of biological SR robot system along with animals [4].

“Animal Welfare and the United Nations Sustainable Development Goals” Written by Linda Keeling, Hakan Tunon, Harry Blokhuis, Mike Jones, Janice Swanson, Leopoldo Stuardo, Christoph Stardom study examines the degree to which enhancing animal welfare and reaching UN sustainable development goals (SDGs) can coexist. We took into account all types of animals, including those raised for food production, working and companion animals, as well as lab and wild animals. The strength of the connections between enhancing animal welfare and achieving an SDG was rated on a 7-point scale, with zero being the strongest link and seven being the most difficult to make between the two goals. Although this study's findings point to a positive association between enhancing animal welfare and reaching the SDGs, this relationship needs to be verified among a larger population. The problems identified were Even though the link to animal welfare is interesting for all SDGs, it was not feasible to score links between all 169 targets and animal welfare. The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest [5].

“Community Engagement in promoting animal Welfare”. Written by Jessica L Researcher. The paper examines the importance of community engagement in efforts to promote animal welfare and reduce the abandonment and euthanasia of animals Community engagement programs aim to raise awareness of responsible pet ownership, spaying/neutering, and the consequences of animal abandonment. The paper discusses the use of social media public events and educational campaigns as tools for engaging and educating the community [6].

“The Effectiveness of Lost and Found animal Reporting Systems”. Written by Jennifer S Researcher In this paper investigates the effectiveness of systems and platforms designed for reporting lost and found animals. The paper discusses the role of technology such as geolocation and photo uploads in enhancing the accuracy and completeness of reported information It explores the factors that influence user engagement with these systems including ease of use, accessibility and awareness [7].

“Online Platforms and Their Influence on Animal adoption”. Written by Michael p Researcher in This paper explores the impact of online platforms including websites and mobile apps on the process of animal adoption. Online platforms have become powerful tools for connecting animal shelters and rescue organizations with potential adopter. In this paper discusses the role of online marketing social media integration, and user-generated content in promoting animals for adoption [8].

“Animal Rescue and Welfare Wellness Web Application” Using the notion of Web Application development, a Web application for the betterment of pets will be built, drawing inspiration from social networking sites on our daily lives. A nonprofit organization called Paws for Rescue is committed to saving homeless animals and locating for them enduring, loving homes. Through the use of our website, we are able to present the animals under our care, give information for adoption, and enlighten the public about issues related to animal welfare. Because we firmly think that all animals have the right to a happy and healthy existence, our dedicated volunteer staff goes above and beyond to provide them the support and care they require. Each animal has a comprehensive profile on our website with pictures and details about their behavior and personality.

IV. TECHNOLOGIES

- **React Native** is a platform that facilitates the development of JavaScript mobile applications. It uses the same React design, which results in a rich mobile user interface from declarative elements. Not only can one create "mobile web apps," "HTML5 apps," or "hybrid apps" with React Native, but it can also create true mobile apps that are entirely distinct from those created with Objective-C or Java. The essential UI building components used by standard iOS and Android apps are also used by React Native. Only those codes are combined with React and JavaScript in those construction parts.
- There is no requirement to recompile the programs; instead, the desired output can be seen immediately by reloading the application.

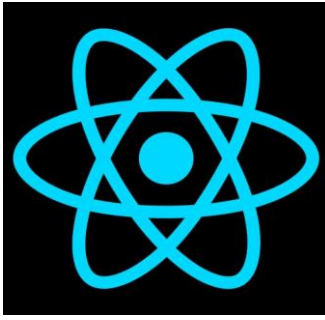


Fig 1 Reacts Logo

➤ **JavaScript** is the programming language used on the web and in HTML. It is lightweight and primarily utilized as the section of the website whose primary function is to create a client-side scripting, which enables user interaction with the page. JavaScript has the benefit of allowing users to provide feedback instantly, which increases engagement and creates richer interfaces. JavaScript is therefore needed to allow user and webpage interaction.



Fig 2 JavaScript Logo

➤ **Firebase** facilitates quicker application development with less infrastructure management. Firebase provides tools like databases, chat, analytics, and crash reporting so that able to move swiftly and concentrate on their individual users.



Fig 3 Firebase logo

The Firebase APIs are bundled into a single software development kit, allowing users to use Firebase as their unified backend across multiple platforms and programming languages, such as Unity and C++.

V. MERITS

- **Quick Access to Help:** The survey done shows that it provides a platform for immediate reporting of animal emergencies, allowing for swift response times.
- **Increased Visibility:** Animals in need of rescue or shelter can gain more visibility through these platforms, increasing their chances of getting help.
- **Efficient Resource Allocation:** Rescue organizations can better allocate resources, such as medical supplies or volunteer support, by efficiently managing reported cases.
- **Community Engagement:** The review often fosters a community of animal lovers, volunteers, and donors, encouraging collective action and support for animal welfare causes.
- **Real-Time Updates:** Users can receive real-time updates on ongoing rescue operations, facilitating transparency and trust among stakeholders.

VI. CONCLUSION

In the conclusion, this publication has acknowledged the significant increase in involvement from all stakeholders and has provided a thorough framework for furthering research in animal sheltering. The identification of research domains, from cooperative projects to animal behavior, offers a well-organized framework for further investigation. This effort attempts to steer research conversations toward subjects of highest impact and quality outcomes by analyzing particular issues within each area and emphasizing triumphs from past decades. The focus on cutting-edge approaches, ideas, and technologies highlights the necessity of ongoing advancements in animal sheltering research and practice. Fostering teamwork and holistic consideration of multiple elements remains crucial as it is negotiated to the complex environment of sheltering.

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