

## A Survey Paper on Animal Safety and Their Health

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**Abstract** - Animal Safety and Health is a web-based application dedicated to pet welfare. A place to bring stray, lost, abandoned, or abandoned pets and set them aside. Each pet requires special care and attention, which is realized within the organization. Animal welfare on farms provokes a public debate in society, but farmers' voices and their views on animal welfare are rarely heard, even though it is the farmers who can actually improve animal welfare. The application allows users to adopt pets, volunteer for pets, purchase pet related products, and donate any desired amount to an organization. Since this application is developed for non-profit organizations, the amount donated will be used for the welfare of pets. Application users can volunteer pets or adopt pets from the application. Applications include food for purchase, pet related products such as grooming products. Products can be purchased by credit card, debit card, or cash on delivery. The application also provides users with pet health care guidelines, how to care for pets, and how to care for them after adoption.

**Key Words:** Behaviour, Ethology, Emotion, Animal welfare assessment, ethics.

### I. INTRODUCTION

Animal welfare is the relationship between humans and animals and the obligation to treat animals humanely for their benefit. Animal welfare is the welfare of animals other than humans. Then this paper emphasizes practical applications for assessing and promoting positive emotions that may help in providing animals with a better quality of life [3]. Animal welfare is related to the condition of animals. The treatment that animals experience is covered by other terms such as animal care, animal husbandry, and humane treatment. Current pet grooming systems are manual and time consuming. Suffering includes a wide range of unpleasant emotional states such as fear, boredom, pain and hunger and evolved as a mechanism for avoiding sources of danger and threats to fitness [2]. Record keeping is difficult, can be out of place, and causes a lot of confusion and commotion. The main idea of this project is to provide a user-friendly interface to automate the process of pet welfare services by providing abandoned pets with shelter and loving care. The application also includes guidelines for pet care, the pet adoption process, and pet volunteerism. Users can complete the recruitment process through the application as this process would be time consuming if done manually. The Animal Welfare Foundation works to improve the lives of animals and ensure their protection. They focus on the humane treatment of animals, advocate for animal rights and animal welfare, and ensure that animals are kept in humane and decent living conditions. In

addition, animal welfare organizations promote responsible husbandry and pet spaying and neutering. They also educate the public on the importance of animal welfare and work to combat animal cruelty, exploitation and abuse. The importance of social media on our lives is so much that we can easily get influenced by any post or readings we come across. Today, it has become an important outlook for every company to market their product on social site so that they can easily connect to millions of users. Social campaigns also seek help from social media platform to connect with people and make them interested to join their campaigns hence, taking this idea the project openly uses social media as its base [5].

### A. PROBLEM DEFINITION

Animals are unjustly mistreated and animal rights must eliminate issues of animal cruelty, hunting and experimentation. All animals should have the right to roam freely without being chased or killed. The damage that hunting does to animals is terrible: noise, fear and constant pursuit. The most obvious harm caused by animal cruelty is the pain and suffering that animals endure. Contrary to what is often portrayed in the media, physical abuse rarely has a happy ending.

### B. OBJECTIVES

The primary goal of this project is to automate the process of pet welfare services by providing sanctuary and loving care to abandoned pets. The scope of the project was initially limited to the intranet and cannot be deployed to handheld devices. To promote the welfare of abandoned, lost, lost or abandoned pets. It saves time, reduces paperwork, facilitates record capture and reduces the process of intermediaries taking commissions by automating the system.

### II. LITERATURE REVIEW

Animal welfare is a relatively new scientific field that evolved into a separate specialty primarily from veterinary medicine in the late 20th century. The affective state of an animal, which is thought to reflect its welfare, consists of both short-term emotional reactions and long-term general mood. Because this state is generated and processed by the brain, we used non-invasive measurement of such brain activity as a novel indicator variable and investigated the interplay of mood and short-term emotional reactions in animals [7]. The assumption that animals are conscious and

capable of experiencing negative sensations and emotions is at the core of most people's concerns about animal welfare [4]. Still, despite the advances in technology, people understand that we have just embarked on a revolution that is in its early phases [1]. There is a shift in the way the public requires information. The research has shown that people are more interested in receiving information online in comparison to face-to-face [8]. Over the past quarter century, the field has continued to expand and animal welfare science is now represented in veterinary medicine and animal science departments at many universities around the world. Animal welfare science has become part of the core curriculum for many veterinary degrees, is a recognized specialty qualification within the veterinary professions of Europe, USA, and Australia and courses in animal welfare science as a stand-alone discipline are offered worldwide at Bachelor's, Master's, and Doctorate degree levels. Within research, there have been similar patterns of expansion and a spread from a heavy focus on farm animal welfare to the welfare of zoo, laboratory, and companion animals and the impacts of humans on wildlife [6]. There continue to be studies that compare the welfare of populations within systems, but there is also more attention given to gaining in-depth knowledge of the welfare of individual animals, knowing that populations are not homogenous and that individuals within the same system may be experiencing quite different welfare states. We not only continue to use "traditional" welfare indicators but also work to develop novel indicators for use in experimental settings or in the field [9]. As our fundamental knowledge base increases, we look for increasing application and we respond to challenges that arise from our own research questions and findings and from societal needs. The application allows users to adopt pets, volunteer for pets, purchase pet related products, and donate any desired amount to an organization. Products can be purchased by credit card, debit card, or cash on delivery. Respect for animal welfare is often based on the belief that non-human animals have sentience and that their welfare and suffering should be considered, especially when in human care.

Donations can be made in cash or by card. Through the application, users can register with organizations, select areas of interest, volunteer, adopt pets, and purchase pet-related products. For both adoption and volunteering, users can select a pet in their organization, view its details, and continue the adoption process or volunteer if desired. This paper will focus on a number of areas that I believe pose major challenges in our field. There is ample evidence that there is a direct relationship between animal welfare and animal health. Animals under stress often become immunocompromised and more susceptible to disease. The Animal Conservation Foundation also works to protect endangered species and provides information on animal care and animal welfare. They often support animal rescue and rehabilitation, and give animals a voice in courts and politics. As the project is a web application, web server is included that works as a server software, or hardware dedicated to currently running said software, that can serve contents to the World Wide Web. The

web server checks for a file that the user enters, it generates the response that describes the contents of the file and contain the file itself or an error message is returned saying that the file is unavailable. The application provides users with the opportunity to donate any amount to the organization.

### III. METHODOLOGY

Animals Health and Their Protection is a website where users can connect and share photos of their pets, as well as photos of abandoned animals they encounter. This allows animal shelters to seek out poor animals. The project also includes items that users can purchase to feed and care for their pets. Since this project is a pet-friendly website, it will add more pet friendly products to the website's shopping framework. Description of modules: - The project is divided into different modules.

- Login Page/Login: - On this page, the user can create a new profile or login to the profile with username and password. Profile pages allow users to see their profile and what they have posted or shared.
- Image Feed: - This is a news feed page where admins can post shared and recommended pages for their organization with all the details, they need about adoption centers and pets available for adoption.
- Project SOS: - This page allows people to post about their abandoned animals and help them find a home/shelter.

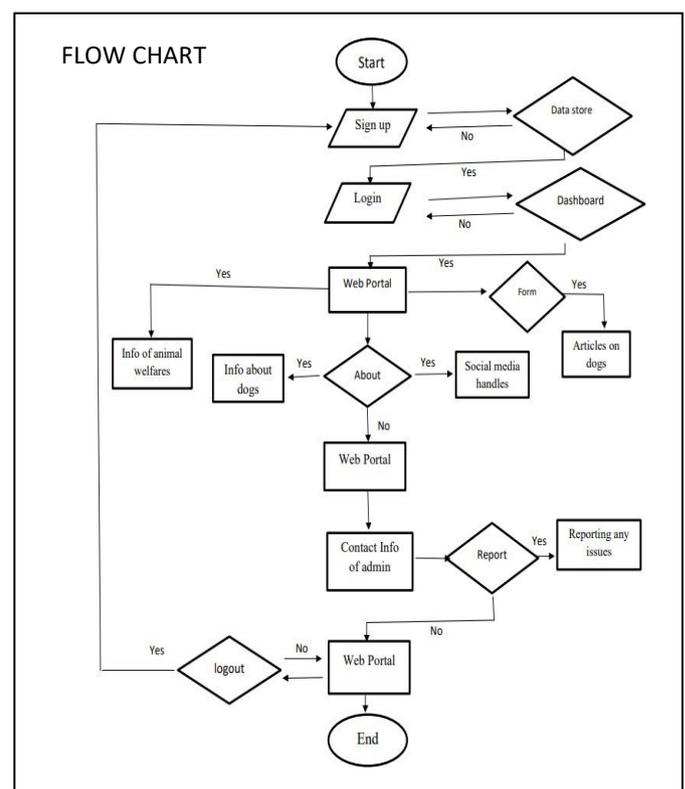


Fig.1: System Architecture

#### IV. ADVANTAGES

A sense of community towards animals. Raising animals humanely uses less feed and water than intensive agriculture, reducing costs and reducing pollution. Animal health also keeps communities alive and growing. Recognize the value of each individual or group. Freedom from hunger and thirst. Freedom from discomfort. Freedom from pain, injury and disease. Freedom to express normal behavior. Freedom from fear and want. They suggested that there are three main concepts of animal welfare. natural behavior; and emotions (emotional states).

#### V. APPLICATONS

The website allows you to care for, feed and protect animals. Campaigns can be held. Exchange knowledge and ideas to advance veterinary medicine and build partnerships with peers who can care for small business animals.

#### VI. CONCLUSION

The proposed system is designed in HTML and developed using JavaScript. The back end of the project is developed using NodeJS to work with yarn and npm packages. The project is a web application that has similar functionality to either a desktop software application or a mobile application. The project aims to introduce a pet-friendly Web Application where shelters are found for an abandoned animal whose information is uploaded on the site by the users connected here, that in result raises awareness among people about the plight of strays and how each one of us can ensure a better and safer environment for these animals.

#### REFERENCES

- [1]. Animal Health at the Crossroads: Preventing, Detecting, and Diagnosing Animal Diseases. National Research Council National Academies of Sciences, Engineering, and Medicine. Copyright 2018, Chapter 2, pp 30-75
- [2]. Dawkins MS. From an animal's point of view: motivation, fitness and animal welfare. *Behav Brain Sci* (1990) 13:1–61. doi:10.1017/S0140525X00077104
- [3]. Boissy A, Manteuffel G, Jensen MB, Moe RO, Spruijt B, Kelling LJ, et al. Assessment of positive emotions in animals to improve their welfare. *Physios Behave* (2007) 92:375–97. doi: 10.1016/j.physbeh.2007.02.003
- [4]. Mendl MR, Paul IS. Consciousness, emotion and animal welfare: insights from cognitive science. *Animal Welfare* (2004) 13: S17–25.
- [5]. Stephen Jacobs, Christopher A. Egert, Susan B. Barnes, "Social media Theory and Practice: Lessons learned for a pioneering course", published in 39th IEEE Frontiers in Education Conference, 2009
- [6]. Harding EJ, Paul SE, Mandal M. Animal behaviour – cognitive bias and affective state. *Nature* (2004) 427:312. doi:10.1038/427312a
- [7]. Muehleemann T, Reefmann N, Wechsler B, Wolf M, Gyax L. In vivo functional near-infrared spectroscopy measures mood-modulated cerebral responses to a positive emotional stimulus in sheep. *Neuroimage* (2011) 54:1625–33. doi: 10.1016/j.neuroimage.2010.08.079
- [8]. Ternman E, Hanninen L, Pastell M, Agenas S, Nielsen PP. Sleep in dairy cows recorded with a non-invasive EEG technique. *Appl Anim Behav Sci* (2012)140: 2532. doi: 10.1016/j.applanim.2012.05.005