ANIMAL HEALTH CARE WEBSITE

Prof. Roopa Patrimath¹, Raushan Kumar², Raushan Kumar³, Siddhant Sonare⁴, Rohit Keshri⁵

¹ Assistant Professor, CSE, AMCEC, Karnataka, India

² Student, CSE, AMCEC, Karnataka, India

³ Student, CSE, AMCEC, Karnataka, India

⁴ Student, CSE, AMCEC, Karnataka, India

⁵ Student, CSE, AMCEC, Karnataka, India

ABSTRACT

It is unclear how much the general population understands and feels about the donation of canine and feline blood. It may be possible to recruit blood donors more successfully if we have a better grasp of pet owners' attitudes towards donating. The purpose of this study was to learn more about how knowledgeable pet owners are about small animal blood donation as well as their attitudes and reasons for supporting their animal's decision to donate blood. 158 pet owners who came to a first-opinion veterinary clinic were the subjects of a written questionnaire containing both closed- and open-ended questions. A mixed methods technique was utilized to collect the data. 70% of owners had no idea that cats and dogs could donate blood. But 89% of respondents said that, if their pet was qualified, they would allow them to donate blood. The likelihood of this increased if the owner did not have any problem in voluntarily donating their pet blood. This will help in the cause, which we are making our platform for and it will help in making the lives of pet going smooth parallelly to human being. Our platform will also provide other animal health care facilities like their time- to-time vaccination, providing their pet owners the full nutrition plan of their pets. So our platform will be a medium for all the user to get connected and help the animal as much as they can in every possible way to improve the quality life of the animal.

1. INTRODUCTION

A opening part that explains the objectives of a written work is called an introduction. In a document, report, or speech, the introduction introduces the subject and sets the stage for the information that follows. The beginning should pique the reader's interest and provide them with a clear understanding of the topics the paper will address. To aid the reader in understanding the subject, it should also include any background knowledge or contextual information that may be required. The reader will be more engaged with the information if the introduction is written correctly because it can establish the tone and goal of the paper.

India has the world's largest dairy herd and around 40% of population depends on Farming which directly and indirectly all depends on animal and animal health care and population of pet animals is increasing day by day. But still number of hospital or health care center for animals is much lesser in number as compare to human hospital. And they don't get proper treatment on time. Because of this Now a days, managing health care of this large population of animal tedious job up to certain limit. So Website that help doctors is essential. Also today's world is a genuine computer world and is getting faster and faster day-by-day. Thus, considering above necessities, the Website for Animal Health Care has become necessary which would be useful in managing the health of animals more efficiently.

The Donor Details, Blood Details, Recipient Details, etc. may all be managed with the aid of this project. All system operations are managed by the admin user. This blood bank management system can be utilized successfully to obtain information about the blood groups that are available, and the administrator can provide the blood, helping those who need it. In order to save a life, an administrator can ask a donor to donate blood if the requested blood type is not present in the blood bank. People can register their pets as blood donors by the admin using this blood bank administration system. They must provide their contact details, such as their address, phone number, and so on, in order to register in the system.

2. PROBLEM STATEMENT

Our website hopes to address the issue of a lack of veterinary hospitals in the northern portion of India, which forces residents to move their animals from one hamlet to another for medical care. This can be particularly challenging for pet owners, and as a result, many animals suffer because they are neglected for medical care.

If blood had been given to some animals in India sooner, they could have survived. Pet owners and vets can only arrange blood donation through personal connections. There is no emergency database or location to go to. Knowing the numerous difficulties a pet parent has when caring for their loved ones during their most vulnerable moments.

Some proponents of animal rights believe that animals are not human property. Therefore, using animals for human purposes is prohibited. This philosophical framework includes the usage of animals as food, clothing, or entertainment. Animal use and ownership are permitted as long as the treatment of the animal complies with a set of norms for well-being, as opposed to animal rights.

Our website serves as a link between the animal in urgent need of blood or medical attention and the appropriate institutions. Time is the most important issue in an emergency, and an animal in serious condition may be running out. Not every pet parent will necessarily use their network to locate the ideal donating animal. Often, a pet parent may be a newcomer to the city, thus decreasing their chances of locating the ideal donor.

- 1. It is difficult for the people in the ruler area to take care of their pet animals if they somehow get sick because there is very less veterinary hospital in those locations.
- 2. This can lead to shortage of life of animals.
- 3. There are numerous websites striving to address these concerns right now, but not all of them have an animal blood donation facility.
- 4. Numerous animals perish since they don't receive timely medical care due to the present system's lengthy process.
- 5. The person in charge finds it challenging to manually view each donor or receiver.
- 6. The issue of animals receiving inadequate medical care is the one we seek to address. Because of lack of resources or non-availability of health care systems is to provide video conferencing for rural India and home assist of doctor.
- 7. To provide easy to use web interface so that many people can join our application.
- 8. To design an intuitive blood bank operation system in partnership with the animal hospital.

Overall, our proposed system has the potential to address a common problem in animal health and providing them with the solutions to improve the quality life of an animal.

3. BACKGROUND WORK

There has been previous research and development in the area of kitchen automation and tool recognition, some of which can be related to our proposed system. Here are a few examples:

- 1. The Bihar Veterinary College established India's first Veterinary Emergency Response Unit (VERU) in 2009 in response to the Kosi River Flood in north Bihar and other severe catastrophes that periodically occur in India. World Animal Protection provided support for this initiative.
- 2. The first population management anti-rabies campaign for stray dogs was created and launched by Blue Cross of India in 1964. It was identified as ABC (Animal Birth Control) and AR (Anti Rabies). The Blue Cross of India played a key role in ending street animal killing in the city of Madras in 1996 by constantly demonstrating that ABC-AR was the most compassionate technique to control the population of street animals and prevent rabies.

3. With a statewide network of 26 hospitals, 165 units, 60 mobile units, and 2.5 lakh members, People for animals, or PFA, is India's largest non-governmental animal welfare organization. Our mission is to rescue and care for ill and abandoned animals. We establish and manage animal shelters, veterinary emergency response teams, sterilization clinics, rehabilitation facilities, and disaster relief operations.

While these systems are similar to our proposed system in terms of assisting and conducting, our platform will basically focus specifically on the additional features like blood donation facility easy consultation to doctors which we believe will make it more efficient and comes out to be best in providing animal health services .

4. OBJECTIVE

The improvement of animals' quality of life through prompt and effective response to their needs is the main goal of the implementation of animal health care for civic animals. The following goals are what the system is trying to accomplish:

- 1. In order to educate people on a range of animal health-related issues. You may discover it on this website, whether you want to communicate with a doctor or a veterinarian about your pet's illness or you want to learn about a nearby hospital.
- 2. To give users and doctors a platform where they may consult on their pet's health.
- 3. To ensure that every animal may live a happy and healthy life, the advancement of wellness approaches is at the center of everything we do at our website. We emphasize three primary routes for this:
 - Assist through Video Conferencing or chat option.
 - Blood Bank Management System for Animals.
 - Medicine Facilities.
- 4. To help create a future in which humans and animals benefit and support each other, for a healthier, more sustainable world.
- 5. The project's goal is to create an application program that will cut down on manual labor.

Overall, our objective is to create a system that will help the animals and in all possible way and give them a good and quality life.

5. LITERATURE SURVEY

Literature survey is as follows:

- 1. CDC (Centers for Disease Control and Prevention). 2003a. Importation of Pets, Other Animals, and Animal Products into the United States. When it comes to identifying infections at an extremely early stage and preventing their spread to other animals, this monitoring and tracking system for animal health can be quite helpful.
- 2. National Academies of Sciences, Engineering, and Medicine ([2]). 2005. Animal Disease Prevention, Detection, and Diagnosis at the Crossroads. Published by Huazhong Agricultural University, Animal Diseases is a peer-reviewed, open access academic journal. The magazine commits to publishing top-notch, innovative, and forward-looking works in the study and treatment of animal diseases that have direct implications for human health as part of the One Health mission.
- 3. Bangar Y, Singh B, Dohare K, and Verma M. a thorough investigation and meta-analysis of subclinical mastitis prevalence in dairy cows in India. Animal Health Productions (2015). In our nation, the dairy industry is significant. We must boost production and resource usage efficiency if we want to remain competitive. In addition to creating an infrastructure to make quality semen, cattle feed, fodder seeds, vaccines, and other products and services available to farmers to improve the productivity and health of their animals.

- 4. Information Network for Animal Productivity & Health (INAPH), a software program that enables the realtime, accurate data collection on breeding, nutrition, and health services provided at farmers' doorsteps. The Breeding Services mainly concentrate on monitoring the Artificial Insemination delivery system intended to improve/assess conception rate of various species/breed/AI Technicians as well as minimize the animal's intercalving period by precisely predicting the animal's heat cycle.
- 5. Dr. Shukriti Sharma GADVASU estimates that the legal system handles at least 25000 cases annually. 500–600 of such cases in dogs have low hemoglobin level. Dogs with low hemoglobin levels are present in 500–600 of these cases (Hindustan Times). All of this is a laborious process, and our website will aid in administering the system and attracting new donors.

6. METHODOLOGY

The proposed project involves the development of an Animal Health Care website. To use the website, user can follow the following methodology:

Booking Engine: Patients and members can look through a list of all registered doctors who are close by and are available. They can choose any one doctor to examine information and make an appointment. The doctors can control their availability times and scheduled appointments. Patients and Doctors are informed when appointments have been confirmed and are coming up.

Digital doctor-patient portal: Doctors can use their mobile or tablet devices to access the portal and view patient information, conduct virtual consultations, and prescribe medications. The web application can also be used by patients to make reservations, schedule virtual consultations, and obtain online prescriptions. Both of these users have seamless access to the application from any location at any time.

Secured Payments: Support secure credit/debit card and net banking payments for the appointments.

Video consulting: This function is essential for enabling in-person communication between a doctor and patient. Through this function, doctors can interact with their patients and discuss health issues.

Online Prescription: Based on conversation and future interaction with patients as needed, doctors can write prescriptions for them online. Patients can utilize this prescription to visit the pharmacist, purchase their medications, and take their medications as directed.

Blood Donation: Users can preregister their animals to donate blood so that veterinarians don't have to waste time looking for animal blood donors during an emergency. Instead, they can quickly discover donors through databases and get in touch with them.

7. ARCHITECTURE

The proposed project involves the doctor appointment for animals and registration of animal blood donors. The following is the architecture we propose to achieve our objectives:

- 1. Sign up for an animal healthcare and blood bank website and log in to the service.
- 2. Now user has two options whether he wants to consult with veterinary doctor for animal health or wants to donate animal blood to blood banks.
- 3. If he wants to consult with a doctor for animal health, he will browse all available doctors in his area and choose one whom he wants to consult with.
- 4. User must make an appointment.
- 5. The doctor will confirm his appointment.
- 6. Now user has following three options:

a. If it's an emergency and there is no means of transport for user, he appoints doctor for home visit.

- b. Doctor asks User to bring patient to nearby hospital.
- c. If the above both cases fail doctors can assist patients through Video Conferencing for temporary bases.
- 7. Doctors will assign medicine based on animal health condition.
- 8. If User is ok with doctor consulting.
- 9. The doctor will ask for payment.
- 10. Now the user is again ready to make a new appointment.
- 11. If a user want to donate animals blood, he needs to select the blood bank option.
- 12. Add all required details of animals.
- 13. Website will provide the searching facilities based on various factors. Such as Blood Bank, Doner, Blood, Blood Group, Area.
- 14. If animal is eligible for blood donation his details get registered in database.
- 15. Blood Bank Management System also manage the Patient details online for Blood details, Blood Group details, Blood Bank.
- 16. Editing, adding, and updating of Records is improved which results in proper resource management of Blood Bank data.

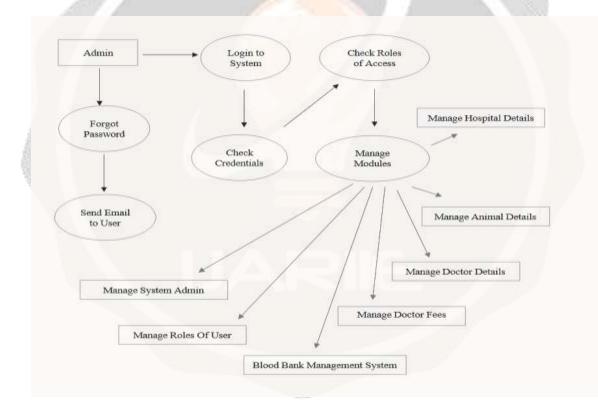


Figure 1. System Architecture Diagram

RESULTS

The expected results of this project include:

1. Give pet owners a sense of comfort because they won't have to worry as much about the health of their20358ijariie.com1756

cherished family members because we offer door-to-door health services for pets.

- 2. The majority of people in rural India still rely directly or indirectly on animals like cattle, cows, buffalo, etc. in many villages because there aren't any facilities for animal health care in those areas. In an emergency, our website offers a video conferencing alternative to assist.
- 3. By offering a blood donation service that allows doctors to avoid wasting valuable time looking for blood donors.
- 4. To preserve as many animals as possible through our website by progressively adding additional amenities.

Overall, the proposed system has the potential to improve animal health care system.

9. CONCLUSION

A project on animal health care has been attempted to be built as part of our project activity. We create this effort to assist animals and give them the care they need. We employ several approaches to establish this application. Although we encountered various obstacles while developing this product, we hardly tried. Our teachers assists us by lending his valuable judgement, time, and advice. We have a good understanding of the system's overall process thanks to the creation of the Animal Health Care Web platform. Giving monthly proper health care, video conferencing, home assistance, and blood for needy animals make up the bulk of this application. While creating this project on the Web platform, we discovered a lot of new stuff.

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- [5] Dr. Shukriti Sharma GADVASU estimates that the legal system handles at least 25000 cases annually. 500–600 of such cases in dogs have low haemoglobin levels. Times of India.All of this is a manual process, and our website will aid in streamlining the donation process and increasing the number of donors.