

Ani-Keep Kilter

An Engineering Project in Community Service

Phase – III Report

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in partial fulfilment of the requirements for the degree of

Bachelor of Engineering and Technology



**School of Computing Science And Engineering
VIT Bhopal University**

KOTHRIKALAN, SEHORE

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May 2024

**VIT BHOPAL UNIVERSITY, KOTHRIKALAN,
SEHORE**

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BONAFIDE CERTIFICATE

Certified that this project report titled "Animal HealthCare" is the bonafide work of "**21MIP10028 - Suman Bhandari**" who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported at this time does not form part of any other project/research work based on which a degree or award was conferred on an earlier occasion on this or any other candidate.

This (Phase II) project report is submitted for the Project Viva-Voce examination held on May 2024.

Supervisor

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First and foremost, I express my sincere gratitude to the Lord Almighty for His unwavering presence and abundant blessings throughout the duration of this project.

I extend my heartfelt appreciation to **Dr. Saurabh Mishra**, Our project Supervisor from School of Computer Science and Engineering, for his invaluable support and encouragement, which have been instrumental in the successful completion of this work. I am profoundly grateful to my internal guide, **Dr. Ravi Verma**, for their dedicated guidance and active involvement in my project. Their insightful suggestions and continuous support have been valuable in navigating through the project challenges. I thank **Dr. Ashish Mohan Yadav** for encouraging us throughout the project and helping us to improve in every possible aspect.

I extend my thanks to all the technical and teaching staff of the School of Computer Science Engineering for their support, whether direct or indirect, during the course of this project.

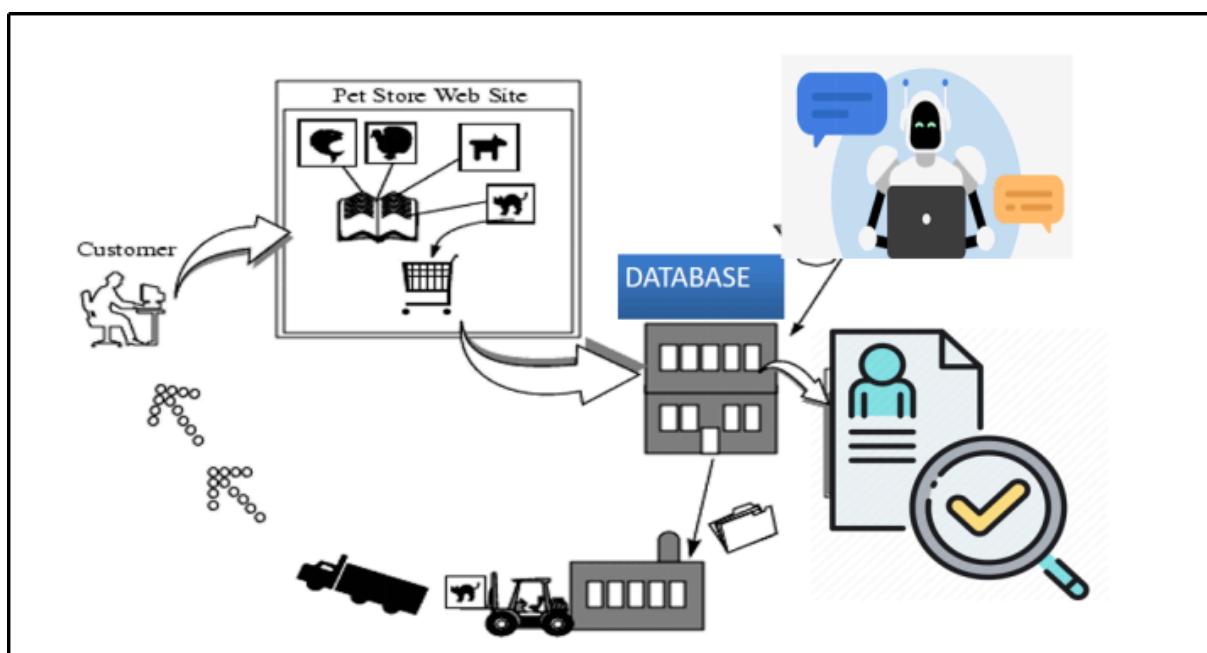
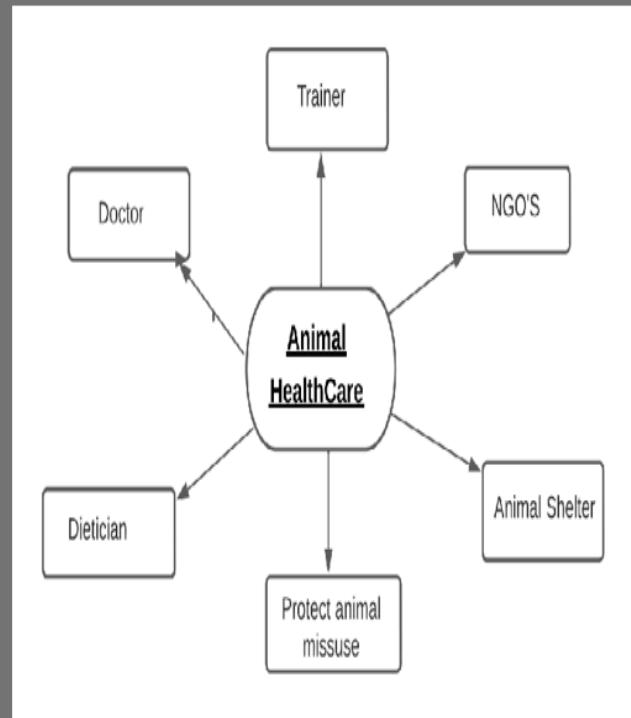
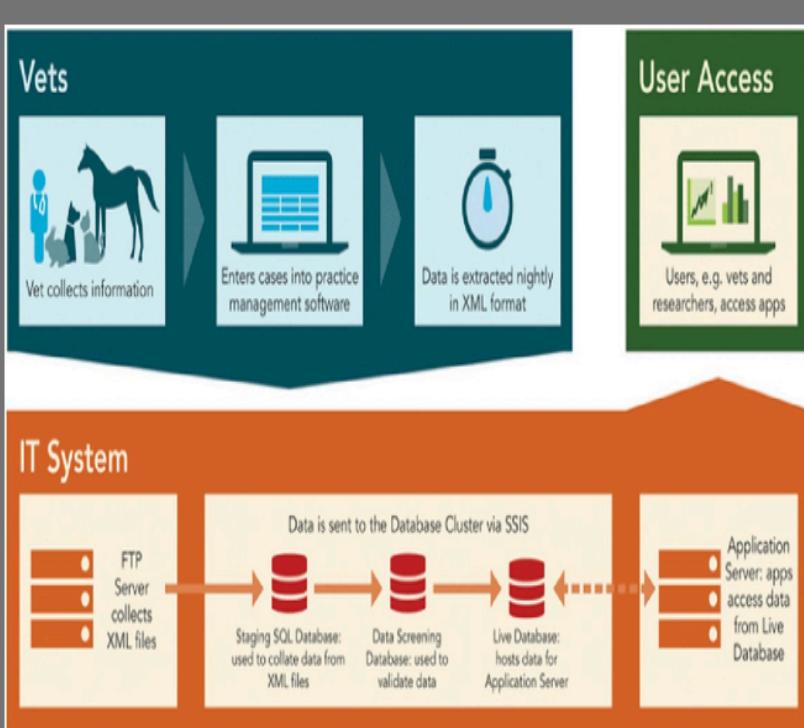
Last but certainly not least, I am deeply indebted to my parents, whose unwavering support and encouragement have been my pillar of strength throughout this journey. Their love and sacrifices have been the driving force behind my perseverance and dedication to making this project a success.

LIST OF ABBREVIATIONS ;

- AHC - Animal Healthcare
- VMC - Veterinary Medical Center
- AHWP - Animal Healthcare Website Project
- VHC - Veterinary Health Care
- AWP - Animal Wellness Project
- AHCR - Animal Healthcare Website Report
- VHA - Veterinary Health Assessment
- AHW - Animal Health Website
- VCS - Veterinary Care Services
- AHDP - Animal Healthcare Development Project
- VHP - Veterinary Health Portal
- AHIS - Animal Health Information System
- VHS - Veterinary Health Solutions
- AHDS - Animal Healthcare Delivery System
- VMCWP - Veterinary Medical Center Website Project.

LIST OF FIGURES

1. Overall System Architecture diagram :



2. Timeline

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9
RESEARCH	Comparing different topics								
THESIS STUDY		Studying the final project topic							
PRESNTATION			Compiling data from different sources						
CODING				Coding using HTML, CSS, JAVASCRIPT					
DESIGNING					Working on Backend				
TESTING						Debugging	Verifying	Survey	
FINAL OUTPUT									Presentation and final Report

3. Business Model



ABSTRACT

This paper advocates for the protection and welfare of all animals, highlighting the overlooked plight of many creatures beyond the care of pet owners. It emphasizes the importance of recognizing animals as integral to our planet and our responsibility to safeguard them. The initiative discussed serves as a sanctuary for animals, providing comprehensive care including nourishment, shelter, and medical aid. Despite existing advocacy efforts, the general public often remains unaware of the plight of these animals. The mission of this initiative is to foster a harmonious relationship between humans and animals, aiming to protect both worlds. The paper emphasizes that every creature has the right to life and basic necessities, such as a comfortable place to sleep and healthcare. The initiative plans to establish multiple animal care centres to provide readily available assistance. It advocates for larger, community-driven initiatives to have a more significant impact in fighting against cruelty. The primary goal is to support and nurture animals, ensuring they receive necessary services by leveraging resources from the government and smaller organizations. This contributes to creating a clean and safe environment for both humans and animals. The initiative's website aims to educate visitors on proper animal care and maintenance, furthering the cause of animal welfare.

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CHAPTER- 01

PROJECT DESCRIPTION AND OUTLINE

1.1 Introduction:

Animals hold a special place in our world, serving as integral components of ecosystems and companions to many. It is our collective responsibility as humans to protect and care for them. While pet owners often provide exemplary care for their animal companions, the plight of street animals often goes unnoticed and unaddressed. In the spaces where humans and animals intersect, there lies a critical need for comprehensive solutions that cater to the diverse needs of all animals.

Our organization aims to bridge this gap by providing a unified platform for animal welfare. We offer a holistic approach, addressing the fundamental needs of animals, including food, shelter, and medical care. By connecting those who need help with those who can provide it, we strive to create a deeply impactful network of support.

Despite the existence of governmental policies and animal welfare organizations, many animals still suffer due to lack of awareness and indifference from the public. Our mission is to change this narrative by fostering a greater connection between people and animals. We believe that by promoting empathy and understanding towards the animal world, we can simultaneously protect both animal and human communities.

In addition to raising awareness, we are actively working towards establishing animal care centers in various locations. These centers will serve as accessible hubs for providing aid to stray animals and other creatures in need. By decentralizing our efforts and involving local communities, we can scale our impact and encourage widespread participation in animal welfare initiatives.

While individual efforts within small communities are commendable, our approach seeks to amplify these efforts on a larger scale. By harnessing the collective power of government support, alongside the dedication of grassroots organizations, we aim to provide comprehensive care and support to animals in need. This collaborative approach not only benefits the animals themselves but also fosters a sense of unity and shared purpose within our society.

Our ultimate goal is to utilize all available resources to ensure the well-being of animals and create a clean and safe environment for both humans and animals alike. Through our website and educational initiatives, we aim to empower individuals with the knowledge and tools necessary to become advocates for animal care and maintenance.

1.2 Motivation:

At the heart of our mission lies a profound dedication to assisting animals in need and providing them with the necessary care and support. Through our observations and experiences, we have recognized the admirable efforts put forth by governmental agencies and non-governmental organizations (NGOs) to aid animals in distress. However, we also acknowledge that despite these efforts, there remains a critical gap in the accessibility and availability of resources for animals in need.

Our role, as a pivotal player in the realm of animal welfare, is to act as a bridge between these organizations and the animals they seek to help. While governmental and NGO initiatives may possess the space and resources required to provide assistance, there often exists a disconnect in effectively reaching animals in remote or underserved areas. This is where our organization steps in, leveraging our expertise and network to connect these animals with the resources and assistance they require.

In addition to facilitating connections, we also strive to enhance the operational capabilities of existing animal welfare entities. By securing funding and coordinating with governmental bodies, we aim to bolster the efforts of these organizations, enabling them to operate more efficiently and effectively. Through strategic partnerships and collaboration, we ensure that no animal is left behind and that resources are optimally utilized to address the diverse needs of animals across various regions.

One of our key initiatives involves the establishment of healthcare units in multiple locations, strategically positioned to provide prompt and accessible care to animals in distress. These units serve as vital hubs for addressing immediate medical needs, as well as offering preventive care and ongoing support. By decentralizing healthcare services, we empower communities to take proactive measures in safeguarding the well-being of animals within their vicinity.

As a comprehensive solution provider, we endeavor to address all facets of animal welfare, ranging from medical assistance to shelter and rehabilitation. Our commitment to protecting not only animal lives but also human lives is unwavering, as we recognize the interconnectedness of both ecosystems. By safeguarding the welfare of animals, we contribute to the creation of safer and more harmonious environments for all beings.

1.3 Objective:

- To reach out all animals who need help
- To provide better healthcare facilities to animal
- To reduce a death ratio of street animals
- To provide shelters to street animals
- To provide dietitians,trainers,doctors to pet owners
- To give information to NGO's about ownerless animals.
- To help people who are making animal products by allowing them to sell the product to websites.
- To set up healthcare centres at multiple locations
- To arrange all facilities with government and public donation in favour of animals

1.4 Problem statement:

Despite the tireless efforts of numerous organizations and governmental bodies, there persists a distressing reality where the welfare of countless animals is overlooked and neglected. This unfortunate oversight often results in inadequate care, insufficient shelter, and limited access to essential medical support for these vulnerable beings.

At Ani-Keep Kilter, we are committed to bridging this gap and championing the rights and well-being of all animals. Our project is founded on the principle that every living creature deserves to live a life of dignity and health. To this end, we have embarked on a mission to establish comprehensive animal care centers in key locations, strategically positioned to provide immediate assistance and long-term support to animals in need.

Our approach is multifaceted, encompassing various initiatives aimed at addressing the diverse needs of animals. We believe in the power of education and awareness to effect positive change, which is why we are dedicated to raising public consciousness about responsible animal care practices. Through targeted outreach programs, workshops, and campaigns, we seek to empower individuals to become advocates for animal welfare in their communities.

Moreover, we are committed to fostering a culture of compassion and empathy towards animals, wherein humans and animals can coexist harmoniously. By promoting understanding and respect for all living beings, we endeavor to create a world where cruelty and neglect towards animals are no longer tolerated.

In essence, Ani-Keep Kilter is more than just a project; it is a testament to our unwavering commitment to making a difference in the lives of animals. Through collaborative efforts and a steadfast dedication to our cause, we strive to build a brighter future where every animal is treated with the care and compassion they deserve.

1.5 summary:

Society is in dire need of an inclusive ecosystem that caters to the diverse needs of every animal, providing comprehensive support and assistance in one centralized platform. Leveraging the power of web development, we are dedicated to creating such an environment, granting users access to a wide array of services tailored to pets and animals.

At the core of our mission is the urgent need to address the plight of street animals. These vulnerable creatures often find themselves without proper care or shelter, facing numerous challenges in their daily lives. In response, we are actively constructing a bridge to connect these animals with the myriad NGOs and organizations devoted to animal welfare. By facilitating this connection, we strive to ensure that no animal is left behind, and that they receive the care and support they so desperately need.

Moreover, our platform serves as a marketplace where users can upload and discover products related to animals. Whether it's pet supplies, accessories, or artisanal creations, we aim to provide a platform where producers and consumers alike can meet and fulfill their needs. This symbiotic relationship fosters a sense of community and collaboration, wherein every participant plays a vital role in supporting animal welfare initiatives.

In essence, our endeavor is to create a holistic ecosystem where every need of animals and pet owners can be met seamlessly. Through the convergence of technology, compassion, and community engagement, we envision a future where every animal receives the care, attention, and love they deserve.

CHAPTER-2:

RELATED WORK INVESTIGATION

2.1 Introduction:

Our initiative is dedicated to crafting a holistic solution to address the well-being of animals, with a particular focus on street animals. We aim to bridge the gap between existing government policies and public awareness by establishing a network of animal care centers in diverse locations. These centers will serve as accessible hubs for providing essential aid to animals in need, including shelter, food, and medical attention.

Our overarching goal extends beyond mere provision of care; we aspire to promote and safeguard the welfare of the entire animal world. By creating a clean and safe environment for both animals and humans, we envision fostering a sense of mutual respect and coexistence.

Central to our initiative is the active involvement of communities, alongside collaboration with governmental bodies and organizations. Together, we strive to ensure that animals receive the comprehensive care they deserve, leveraging collective resources and expertise.

Moreover, our website serves as a vital educational platform, raising awareness about animal care and maintenance. Through informative content and resources, we seek to empower individuals to become advocates for animal welfare, fostering a collective effort to improve the lives of animals and promote harmonious coexistence between humans and animals.

2.2 Objective:

- To reach out all animals who need help
- To provide better healthcare facilities to animal
- To reduce a death ratio of street animals
- To provide shelters to street animals
- To provide dietitians,trainers,doctors to pet owners
- To give information to NGO's about ownerless animals.
- To help people who are making animal products by allowing them to sell the product to websites.
- To set up healthcare centres at multiple locations
- To arrange all facilities with government and public donation in favour of animals

2.3 Real time Usage:

1. Emergency Medical Response: This involves providing immediate medical care to animals in emergency situations such as accidents, injuries, or sudden illnesses. It includes on-site treatment, transportation to veterinary facilities if needed, and stabilization procedures.
2. Vaccination Drives: Organizing campaigns to administer vaccines to animals to prevent the spread of infectious diseases. Vaccination drives may target specific populations or regions to ensure herd immunity and protect against outbreaks.
3. Disaster Relief: Providing assistance to animals affected by natural disasters such as floods, hurricanes, wildfires, or earthquakes. This includes rescue operations, temporary shelter, medical treatment, and reuniting lost animals with their owners.
4. Mobile Veterinary Clinics: Operating clinics on wheels to deliver veterinary services to remote or underserved areas. These clinics offer preventive care, medical treatment, spaying/neutering, and health education to pet owners who may have limited access to traditional veterinary services.
5. Monitoring and Surveillance: Implementing systems to track and analyze animal health data for early detection of diseases, monitoring of disease trends, and assessment of the effectiveness of control measures. Surveillance helps in disease prevention and control efforts.
6. Livestock Health Management: Implementing strategies to maintain the health and productivity of livestock animals such as cattle, poultry, and pigs. This includes preventive measures, disease control, nutrition management, and biosecurity practices on farms and ranches.
7. Public Awareness Campaigns: Educating the public about responsible pet ownership, animal welfare issues, zoonotic diseases, and the importance of preventive healthcare measures such as vaccination and regular veterinary check-ups. Awareness campaigns aim to promote compassion towards animals and improve community health.
8. Research and Development: Conducting studies and experiments to advance knowledge in veterinary medicine, animal health, and welfare. Research efforts focus on developing new treatments, vaccines, diagnostic tools, and management practices to improve the health and well-being of animals.

2.4 Existing work:

Animal healthcare projects currently involve a substantial amount of work, including research studies, field projects, and instructional initiatives. Some instances of these endeavors include:

The International Livestock Research Institute (ILRI) and several African nations are working together on the African Livestock Productivity and Health Advancement (ALPHA) project, which aims to increase animal productivity and health through the use of vaccines, improved animal genetics, and better veterinary services.

Pashu Sanjivani: The Indian government has released the Pashu Sanjivani smartphone app to make it easier to diagnose and cure cattle ailments. The app gives information on the availability of medications at nearby veterinary hospitals and aids veterinary officials in the diagnosis of ailments.

Kamdhenu: The Indian government's Kamdhenu initiative aims to enhance the well-being and productivity of cows. The program's main goal is to give cows improved housing, healthcare, and feeding options.

National Animal Disease Control Program (NADCP): This programme attempts to control and eradicate important animal illnesses in cattle, buffalo, and small ruminants, such as foot-and-mouth disease, brucellosis, and tuberculosis.

Rashtriya Gokul Mission (RGM): With an emphasis on enhancing the genetic quality and productivity of indigenous breeds of cattle and buffalo, RGM intends to protect and enhance these animals.

The Integrated Disease Surveillance Project (IDSP): uses an integrated disease surveillance system to track and prevent the transmission of zoonotic diseases (diseases that can be transferred from animals to humans).

Animal Welfare Board of India (AWBI): The AWBI is a statutory body under the Ministry of Environment, Forests and Climate Change, Government of India. It works to promote animal welfare by implementing animal welfare laws and regulations.

Animal Welfare Board of India (AWBI): The AWBI is a government of India agency that is under the Ministry of Environment, Forests, and Climate Change. By putting animal welfare rules and regulations into effect, it aims to enhance animal welfare.

Blue Cross of India: A non-governmental group who strives to raise awareness about animal welfare and rights while also providing refuge and medical care for stray animals.

Help in Suffering: This non-governmental organisation also aims to advance animal welfare and rights in India while also offering shelter and medical care to stray animals.

2.5 Summary:

Animal healthcare encompasses a broad spectrum of interventions designed to enhance the health and welfare of animals across various contexts. From immediate responses to ongoing efforts, a comprehensive approach is essential to safeguarding animal populations and promoting responsible pet ownership. Here's a breakdown of the multifaceted strategies involved:

Immediate Responses:

Emergency Medical Care: Providing urgent medical attention to animals in distress, including treatment for injuries, illnesses, and emergencies.

Vaccination Drives: Organizing campaigns to administer vaccines against common diseases, preventing outbreaks and promoting herd immunity.

Long-Term Efforts:

Disaster Relief: Mobilizing resources and personnel to assist animals affected by natural disasters or emergencies, including rescue, shelter, and rehabilitation.

Mobile Veterinary Clinics: Deploying mobile units to remote or underserved areas, offering veterinary services such as check-ups, treatments, and surgeries.

Monitoring of Animal Health: Conducting surveillance and monitoring programs to track disease prevalence, detect outbreaks, and implement control measures.

Livestock Health Management:

Disease Prevention and Control: Implementing measures to prevent and control diseases among livestock, including biosecurity protocols, vaccination programs, and quarantine procedures.

Nutrition and Welfare: Promoting proper nutrition and husbandry practices to ensure the well-being of livestock animals, addressing issues such as malnutrition and stress.

Public Awareness Campaigns:

Education and Outreach: Raising awareness among the public about the importance of animal health and welfare, responsible pet ownership, and zoonotic disease prevention.

Community Engagement: Engaging with communities to foster a culture of compassion and empathy towards animals, encouraging active participation in animal healthcare initiatives.

Research and Development Initiatives:

Advancing Veterinary Medicine: Supporting research and development efforts to improve diagnostic tools, treatments, and vaccines for animal diseases, as well as promoting evidence-based practices in veterinary care.

Innovation in Animal Welfare: Exploring innovative solutions and technologies to address emerging challenges in animal health and welfare, such as telemedicine, genetic screening, and precision agriculture.

By integrating these diverse approaches, animal healthcare endeavors to ensure the health and well-being of animals while also addressing broader public health concerns and advancing veterinary medicine for the benefit of all.

CHAPTER-3:

REQUIREMENT ARTIFACTS:

3.1 Introduction:

Ani-Keep Kilter is deeply committed to the welfare and protection of animals. Our core mission revolves around providing a sanctuary for all creatures, where they can find nourishment, shelter, and access to essential medical care. By bridging the gap between humans and animals, we envision a world where both species can coexist harmoniously and thrive together.

At the heart of our initiative is the establishment of animal care centers strategically located to provide aid to animals in need. These centers serve as beacons of hope, offering a refuge for animals who have been neglected or abandoned. Through the dedication of our staff and volunteers, we strive to ensure that every animal receives the care and attention they deserve.

In addition to providing direct assistance, we are committed to leveraging our resources to promote a clean and safe environment for all beings. By raising awareness and advocating for responsible stewardship of the earth and its inhabitants, we seek to create a world where animals are valued and respected.

Our website serves as a vital educational platform, offering valuable resources and information on animal care and welfare. Through informative articles, guides, and educational materials, we aim to empower individuals to become advocates for animals in their own communities. Together, we can work towards a future where cruelty towards animals is eradicated, and all beings can live in harmony with one another.

3.2 Hardware and Software requirements:

In Frontend we have used:

HTML (Hypertext Markup Language):

HTML is the standard markup language used for creating web pages and web applications. It provides the structure and semantics of a web document by using tags to define different elements such as headings, paragraphs, images, links, forms, and more. In our system, HTML is crucial for structuring the content of web pages, ensuring proper organization and presentation of information for users.

CSS (Cascading Style Sheets):

CSS is a style sheet language used for styling the appearance of web pages written in HTML. It allows developers to control the layout, colors, fonts, and other visual aspects of the web page. CSS operates by selecting HTML elements and applying styles to them, either directly within the HTML document or through external style sheets. In our system, CSS plays a vital role in designing the visual presentation of the user interface, ensuring consistency, aesthetics, and user-friendliness.

JavaScript:

JavaScript is a high-level programming language primarily used for adding interactivity and dynamic behavior to web pages. It enables developers to create responsive and interactive features such as form validation, event handling, animations, and dynamic content updates without requiring page reloads. JavaScript can be embedded directly within HTML documents or included as external scripts. In our system, JavaScript enhances user interaction by providing functionalities such as real-time updates, client-side validation, and asynchronous data loading, thereby improving the overall user experience.

In Backend we have used:

PHP (Hypertext Preprocessor):

PHP is a server-side scripting language designed for web development, particularly for generating dynamic web content and interacting with databases. PHP scripts are executed on the server before the web page is sent to the client's browser, allowing for the generation of dynamic HTML content, data processing, and database interactions. PHP is commonly used for tasks such as user authentication, form processing, session management, and database queries. In our system, PHP handles server-side logic, processes user requests, and

communicates with the MySQL database to fetch or update data, enabling the system to provide personalized and dynamic content to users.

Requirements:

Processor: Intel ® Pentium ® or above.

Hard Disk: At least 500GB HDD for data storage.

RAM: Minimum of 4GB RAM to ensure smooth operation of applications.

3.3 List of modules:

1. User Authentication Module:

Ensures that only verified users can access the platform, creating a secure environment for the community.

Provides a simple and secure way for new users to join the platform through a registration form.

Utilizes techniques such as email verification, CAPTCHA, or two-factor authentication to verify user identities.

Manages user credentials securely, employing encryption and hashing techniques to protect sensitive information like passwords.

Includes functionality for user login, logout, password reset, and profile management.

2. Database Module:

Stores the data of registered users securely, ensuring data integrity and confidentiality.

Utilizes a relational database management system (e.g., MySQL) to organize and manage user data efficiently.

Stores information such as user profiles, login credentials, preferences, and any other relevant user details.

Allows for data retrieval and manipulation through structured query language (SQL) queries.

Implements proper data indexing, normalization, and backup mechanisms to optimize database performance and reliability.

3. Ani-Bot Interaction Module:

Allows users to interact with Ani-Bot, an AI-powered virtual assistant, after logging into the platform.

Provides guidance and assistance to users on various animal care and welfare issues.

Utilizes natural language processing (NLP) algorithms to understand user queries and provide relevant responses.

Offers features such as FAQs, tips, tutorials, and links to resources related to animal care, nutrition, health, behavior, and adoption.

Incorporates feedback mechanisms to continuously improve Ani-Bot's performance and user satisfaction.

3.4 References:

<https://en.wikipedia.org/wiki/Veterinarian>

<https://petnutritionalliance.org/site/pnatoold/creating-nutrition-plan/>

<https://sarvoham.org/downloads/Pet%20Diet%20Chart.pdf>

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<https://www.careers360.com/careers/animal-trainer>

https://www.petaindia.com/?utm_source=PETA%20IN%3A%3AGoogle&utm_medium=Ad&utm_campaign=121%3A%3Agen%3A%3APETA%20IN%3A%3AGoogle%3A%3ADSA-Grant%3A%3Aeg%3A%3Asearchad&gclid=CjwKCAiA76-dBhByEiwAA0_s9S1Mq_f4CQL-Qe6CqWVRYuOMP02FO-HuZKNDcUSZMHpdEQLkzTFYHRoCt7YQAvD_BwE

<https://nationalzoo.si.edu/animals>

<https://en.wikipedia.org/wiki/Veterinarian>

<http://animalhealthcare.com/>

3.5 Summary:

The Animal Healthcare System comprises three integral modules designed to ensure a secure and interactive platform for users. The User Authentication Module serves as the gateway, guaranteeing that only verified individuals gain access to the system. Through a meticulous registration process, users can securely join the platform, with authentication mechanisms such as email verification and CAPTCHA bolstering security. This module also manages user credentials, employing robust encryption and hashing techniques to safeguard sensitive information like passwords. Additionally, it provides essential features including login, logout, password retrieval, and profile management, enhancing user experience and security protocols.

Complementing the User Authentication Module is the Database Module, which serves as the repository for user data. Ensuring the integrity and confidentiality of information, this module stores user profiles, login credentials, preferences, and other pertinent details within a relational database management system. By facilitating efficient data retrieval and manipulation through SQL queries, it enables seamless access to user information while optimizing database performance through indexing, normalization, and backup mechanisms. Consequently, users can trust that their data is securely stored and readily accessible whenever needed, reinforcing trust and reliability within the platform.

Facilitating user interaction and guidance within the Animal Healthcare System is the Ani-Bot Interaction Module. This module provides users with access to Ani-Bot, an AI-powered virtual assistant, which serves as a knowledgeable resource on animal care and welfare issues. Leveraging natural language processing (NLP) algorithms, Ani-Bot comprehends user queries and offers tailored responses, including FAQs, tips, tutorials, and resource links. Through continuous feedback mechanisms, Ani-Bot evolves to meet user needs, fostering an enriching and interactive experience for users seeking guidance and support on various aspects of animal welfare. Together, these modules form a cohesive framework that not only ensures the security and integrity of the Animal Healthcare System but also facilitates meaningful user engagement and empowerment within the community.

CHAPTER-4: DESIGN METHODOLOGY AND ITS NOVELTY

4.1 Overall System Architecture Diagram:

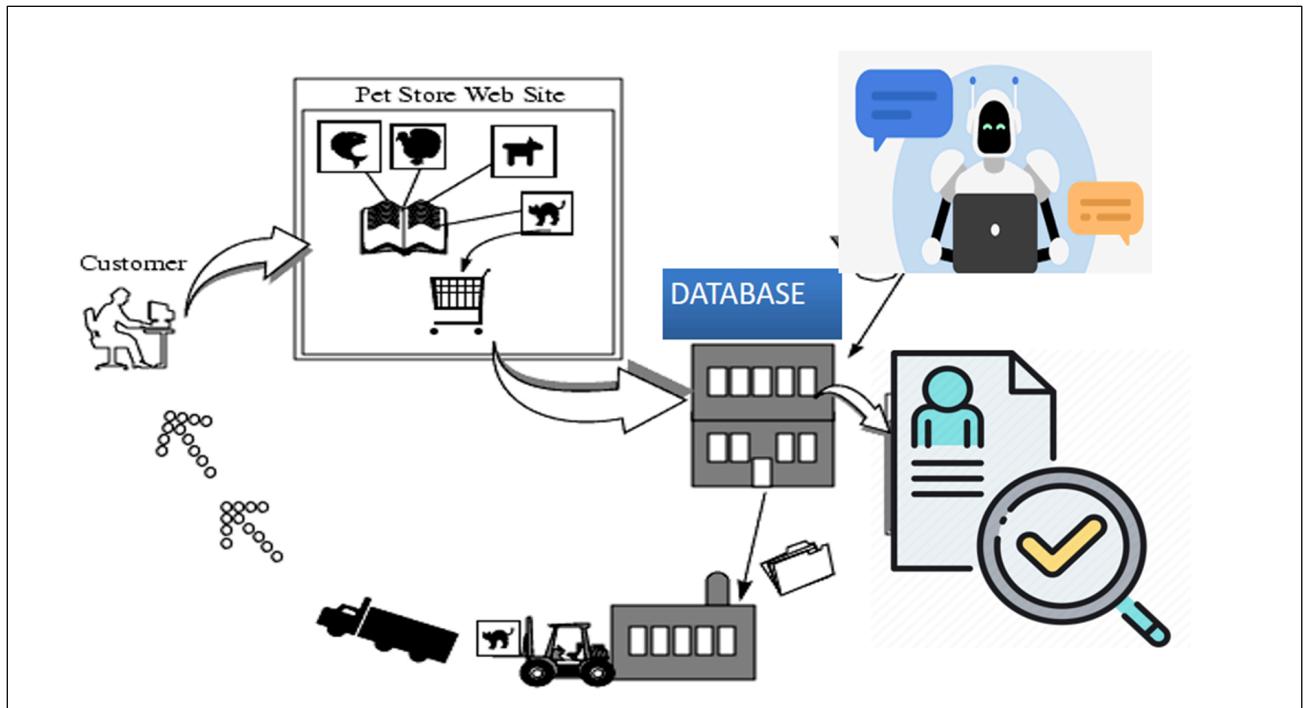


Fig 4.1

4.2 Module design and Analysis:

1. Introduction:

- The Animal Care and Welfare Guidance System aims to provide users with valuable information and guidance on caring for animals effectively. It enhances the user experience by integrating a secure user authentication module and a comprehensive database for storing and retrieving user data.

2. User Authentication Module:

- Purpose: Ensures that only verified users can access the platform, fostering a secure environment for the community.
- Features:
 - User Registration: Provides a simple and secure registration form for new users to join the platform.

- Verification Process: Implements a verification mechanism to authenticate users' identities.
- Secure Login: Enables registered users to securely log in to access the platform's features.

3. Database Management:

- Purpose: Stores user data securely and facilitates efficient retrieval when needed.
- Features:
 - Data Storage: Stores user profiles, preferences, and interactions securely in a relational database.
 - Data Retrieval: Allows authorized access to user data for personalized experiences and analytics.
 - Data Security: Implements encryption and access control measures to protect sensitive user information.

4. Ani-Bot Interaction:

- Purpose: Empowers users to interact with Ani-Bot for guidance on animal care and welfare issues.
- Features:
 - Chat Interface: Integrates a user-friendly chat interface for seamless interaction with Ani-Bot.
 - Content Repository: Accesses a comprehensive repository of animal care and welfare information.
 - Personalized Recommendations: Analyzes user queries and behavior to offer tailored guidance and recommendations.
 - Multi-Platform Integration: Extends Ani-Bot's accessibility across various devices and platforms for user convenience.

5. Module Analysis:

- User Engagement: Tracks user engagement metrics to assess the effectiveness of the guidance system and improve user interactions.
- Content Management: Regularly updates and expands the content repository to ensure relevance and accuracy.
- Performance Optimization: Monitors system performance to enhance responsiveness and scalability for growing user demands.
- Security Audit: Conducts periodic security audits to identify and address potential vulnerabilities in the authentication and data management modules.

6. Conclusion:

- The Animal Care and Welfare Guidance System integrates essential modules for providing users with a secure and enriching experience. By combining user authentication, database management, and Ani-Bot

interaction, the platform aims to promote responsible animal care practices and foster a supportive community environment. Continuous analysis and optimization are crucial for maintaining the system's effectiveness and relevance over time.

4.3 Project timeline chart

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9
RESEARCH	Comparing different topics								
THESIS STUDY		Studying the final project topic							
PRESENTATION			Compiling data from different sources						
CODING				Coding using HTML, CSS, JAVASCRIPT					
DESIGNING					Working on Backend				
TESTING						Debugging	Verifying	Survey	
FINAL OUTPUT									Presentation and final Report

Fig 4.3

4.4 Summary:

The Animal Care and Welfare Guidance System is designed to offer users valuable information and support in effectively caring for animals. It comprises three key modules: User Authentication, Database Management, and Ani-Bot Interaction.

The User Authentication Module ensures a secure environment by verifying user identities through a registration process and secure login system. This fosters trust within the community and safeguards user data.

The Database Management Module securely stores and retrieves user data, including profiles and preferences, enabling personalized experiences and analytics. Stringent security measures, such as encryption and access controls, protect sensitive information.

The Ani-Bot Interaction Module empowers users to seek guidance on animal care and welfare issues through a user-friendly chat interface. It offers access to a comprehensive content repository and delivers personalized recommendations based on user queries and behavior.

Module Analysis focuses on user engagement, content management, performance optimization, and security audits. Continuous monitoring and optimization are essential for maintaining system effectiveness and relevance.

In conclusion, the Animal Care and Welfare Guidance System integrates essential modules to promote responsible animal care practices and foster a supportive community environment. Continuous analysis and optimization ensure the system's effectiveness and relevance over time.

CHAPTER-5:

TECHNICAL IMPLEMENTATION AND ITS ANALYSIS

5.1 Outline

A website that offers food shelters and medical care is being developed to serve as a one-stop shop for animal welfare. The website offers details on medical professionals, non-governmental organisations, and animal welfare groups. The idea is to open healthcare facilities and offer financing and other forms of support in order to offer assistance more effectively.

The website offers a thorough directory of doctors and only requires one signup. Government funding will enable the project's expansion. In addition, street cameras will be installed to offer emergency assistance, and a sensor to identify animal injuries will be developed. Providing a one-stop shop for all animal needs is the aim.

5.2 Performance Analysis

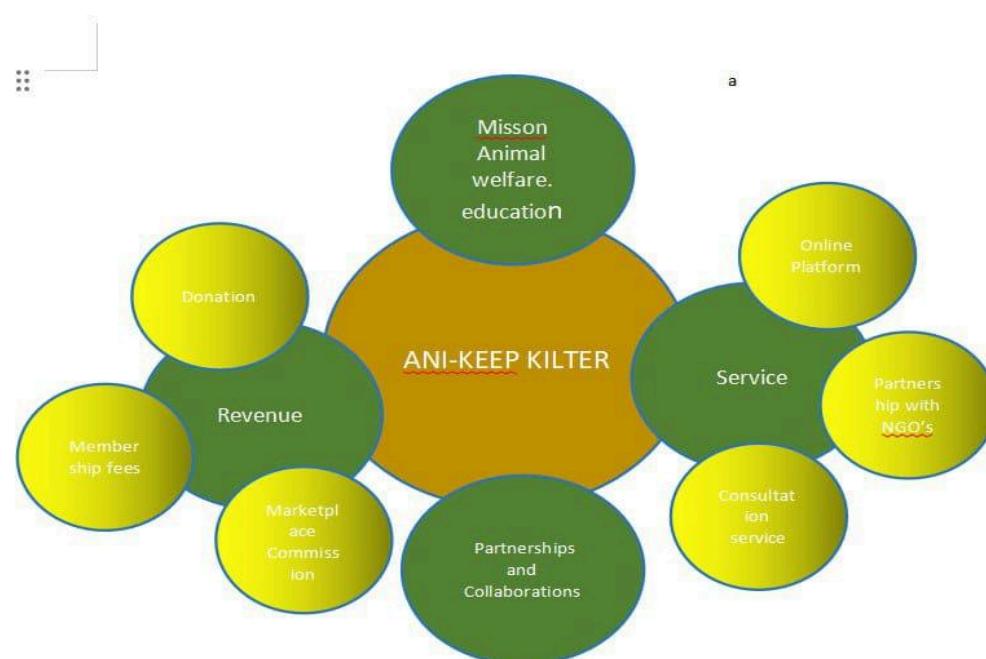


Fig 5.2 Business Model

5.3 Technical coding:

Php Home Page:

```
index.html • index.php x
Backend > index.php > html > body > form
1  <?php
2  session_start();
3  if (!isset($_SESSION["user"])) {
4      header("Location: login.php");
5
6  }
7  ?>
8  <!DOCTYPE html>
9  <html lang="en">
10 <head>
11     <meta charset="UTF-8">
12     <meta http-equiv="X-UA-Compatible" content="IE=edge">
13     <meta name="viewport" content="width=device-width, initial-scale=1.0">
14     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" integrity="sha384-Zenh87qX5jNk2Jl0vWa8Ck2r
15     <link rel="stylesheet" href="style.css">
16     <title>User Dashboard</title>
17 </head>
18 <body>
19     <div class="container">
20         <div class="row justify-content-center">
21             <div class="col-auto">
22                 <h1>Welcome to Dashboard</h1>
23
24
25                 <a href="logout.php" class="btn btn-warning" style="margin-top: 20px;">Logout</a>
26             </div>
27         </div>
28     </div>
29     <form>
30         Welcome <?php echo $_POST["PetName"]; ?><br>
31     </form>
32 </body>
33 </html>
```

Project Home Page:

```
index.html • index.php
epics-final review--final > animalHealthcare > index.html > html > body
2  <html lang="en">
18 <body>
22     <nav class="navbar">
23
24
25         <div class="dropdown">
26
27             <div class="find-people">
28                 <button class="dropbtn">About us</button>
29                 <i class="fa-solid fa-caret-down" style="color: #ff6e01;"></i>
30             </div>
31
32             <div class="dropdown-content">
33                 <a href="services.html">Services</a>
34                 <a href="/ContactFrom v1/index.html">contact us</a>
35             </div>
36
37         </div>
38
39         <div class="sign-btn">
40             <button id="btn1" onclick="signUp()">Sign-Up</button>
41             <button id="btn2" onclick="logInn()">Log-in</button>
42         </div>
43     </nav>
44     <section class="home" id="home">
45
46         <div class="content">
47             <h3>Ani-keep Kelter<br></h3>
48             <p class="tagline">Welcome to Ani-keep Kelter, <br> It's our pleasure to provide you this website. </p>
49
50             <input type="file" id="real-life" hidden = "hidden">
51             <!-- <button class="btn" id="up-custom-btn">Upload Image</button> -->
52
53             <!-- <button id="clickOpen" onclick="clickMe()" class="btn">Upload Image</button> -->
```

Login form:

The screenshot shows a code editor interface with the following details:

- Title Bar:** Shows "index.php Backend\Backend" and "index.php Backend".
- Explorer:** On the left, there's a tree view of files and folders. Under "Backend", there are "Backend", "index.php", "login.php", "logout.php", "registration.php", and "style.css".
- Code Editor:** The main area contains the PHP code for a login form. It includes session handling, header redirection, and HTML/PHP for displaying a dashboard.
- Bottom Status Bar:** Shows "Ln 1, Col 1" and other standard status bar information.

```
<?php
session_start();
if (!isset($_SESSION['user'])) {
    header("Location: login.php");
    exit; // Add exit to stop further execution
}
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" integrity="sha384-Zenh87qX5jNkNQJg9SUmDzTlWuO9WtAj7Xg4W1QF7ZnX0fZDyQmG9Ld" rel="stylesheet">
    <link rel="stylesheet" href="style.css">
    <title>User Dashboard</title>
</head>
<body>
    <div class="container">
        <h1>Welcome to Dashboard</h1>
        <a href="logout.php" class="btn btn-warning">Logout</a>
        absss
        <iframe src="https://harshkotiwale-chat-bot-chatbot-gbdokd.streamlit.app/" title="W3Schools Free Online Web Tutorials"></iframe>
        <!-- Add the link to your Streamlit chatbot -->
        <a href="https://harshkotiwale-chat-bot-chatbot-gbdokd.streamlit.app/" target="_blank" class="btn btn-primary">Open Streamlit Chatbot</a>
    </div>
    <form>
        Welcome <?php echo $_SESSION['user']; ?><br> <!-- Use $_SESSION['user'] to display the logged-in user's name -->
    </form>
    <div><p>Not registered yet <a href="chatbot.py">Register Here</a></p></div>
</body>
</html>
```

Dashboard:

The screenshot shows a code editor interface with the following details:

- Title Bar:** Shows "index.html", "dashboard.php", and "index.php".
- Code Editor:** The main area contains the PHP code for a dashboard that retrieves data from a MySQL database, calculates total sales and revenue, and identifies the top-selling product.
- Bottom Status Bar:** Shows "Ln 1, Col 1" and other standard status bar information.

```
<?php
// Connect to the database
$db = new PDO("mysql:host=localhost;dbname=dashboard", "root", "");

// Get the data from the database
$sql = "SELECT * FROM products";
$stmt = $db->prepare($sql);
$stmt->execute();
$products = $stmt->fetchAll(PDO::FETCH_ASSOC);

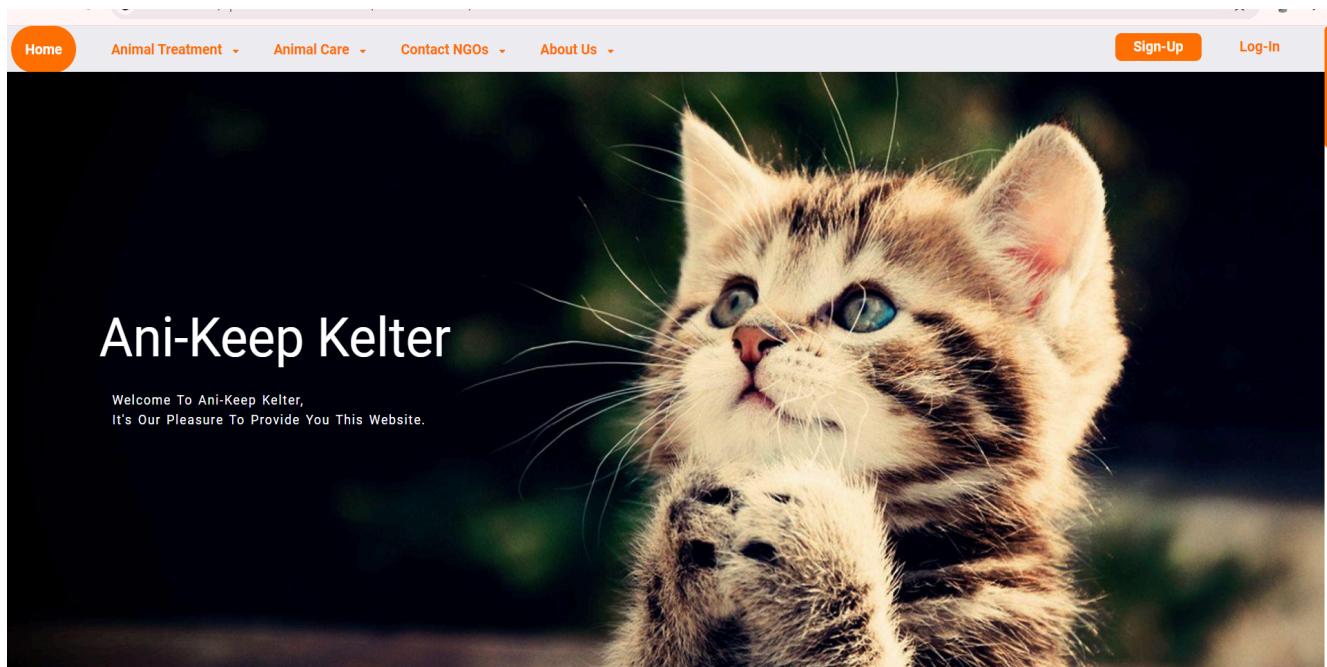
// Get the total sales and revenue
$total_sales = 0;
$total_revenue = 0;
foreach ($products as $product) {
    $total_sales += $product["sales"];
    $total_revenue += $product["sales"] * $product["price"];
}

// Get the top selling product
$top_product = $products[0];
foreach ($products as $product) {
    if ($product["sales"] > $top_product["sales"]) {
        $top_product = $product;
    }
}

// Close the database connection
$db = null;
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Dashboard</title>
    <!-- Bootstrap 5 CDN -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/5.0.0-alpha2/css/bootstrap.min.css">
```

5.4 output;



The image displays a section of the website dedicated to different animal categories. There are four cards, each featuring a large, high-quality photograph of the animal and a corresponding label below it. From left to right: 1. A golden retriever dog sitting, labeled "Dog" with a "See Details" button. 2. A tabby kitten, labeled "Cat" with a "See Details" button. 3. A black and white cow, labeled "Cow" with a "See Details" button. 4. A brown horse running, labeled "Horse" with a "See Details" button. The background of this section has a subtle, warm-toned texture.

Welcome to Dashboard

Access Details Through ChatBot [CHATBOT](#)

[Logout](#)

The screenshot shows a Streamlit application window titled "ANIBOT". At the top, there is a search bar with the placeholder "Enter your search query:" and the input "how to rescue an animal". Below the search bar is a "Search" button. The main content area displays search results:

- Rescuing Animals in Crisis | The Humane Society of the United States**
<https://www.humanesociety.org/animal-rescue>

Received care from our Animal Rescue Team after being saved from cruelty and disasters in 2022. Dog in crate being carried by shelter partner and HSUS staff.
- How to help animals in shelters and rescues**
<https://www.humanesociety.org/resources/ten-ways-help-your-local-shelter-or-rescue>

How to help animals in shelters and rescues · 1. Adopt a pet. If you've been thinking that it's time to add a pet to your family, consider adopting from a local ...
- Animal Rescue: What It Is and How You Can Help Rescue Animals**
<https://sentientmedia.org/animal-rescue/>

Jan 14, 2022 ... As sentient beings, animals deserve to be treated fairly with consideration for both their physical and mental well-being. Unfortunately, this ...
- Stray Animal Foundation India – A Chance for India's forgotten ...**
<https://www.humanesociety.org/animal-rescue>

The browser status bar at the bottom shows the URL "https://www.humanesociety.org/animal-rescue" and the temperature "92°F".

5.5 Summary

Humanity requires a comprehensive ecosystem that caters to the diverse needs of every species, all accessible in one centralized location. Through the development of a specialized web platform, we aim to create such an environment, providing a gateway to a full spectrum of services pertinent to pet care and welfare. Our efforts extend to addressing the plight of street animals, offering solutions and support to improve their living conditions.

We are in the process of forging a vital link that connects lost and stray animals to a network of NGOs committed to animal welfare within our community. Despite the challenges posed by the number of animals still unaccounted for, our platform seeks to bridge this gap, facilitating their care and protection.

Moreover, our website serves as a marketplace for users to list and discover items related to animal care. This feature ensures that both producers and consumers can fulfill their respective needs efficiently, creating a symbiotic relationship that benefits all parties involved.

In essence, our initiative is not just about creating a website; it's about building a community-driven ecosystem that supports the well-being of animals and meets the needs of those who care for them. By integrating various services and stakeholders, we strive to enhance the lives of pets and street animals alike, ensuring they receive the care and attention they deserve.

CHAPTER-6:

PROJECT OUTCOME AND APPLICABILITY

6.1 Project applicability on real world applications

Emergency Medical Response

Vaccination Drives

Disaster Relief

Mobile Veterinary Clinics

Monitoring and Surveillance

Livestock Health Management

Public Awareness Campaigns

Research and Development

6.2 Significant Project Outcomes

HTML (Hypertext Markup Language) is the standard markup language used to create the structure and content of web pages. CSS (Cascading Style Sheets) is used to style and format HTML elements, providing design and layout to web pages. JavaScript is a programming language that adds interactivity and dynamic behavior to web pages, allowing for features like animations, form validation, and interactive content. PHP (Hypertext Preprocessor) is a server-side scripting language used for creating dynamic web pages and web applications. It is often used in conjunction with HTML to retrieve data from databases, process form submissions, and generate dynamic content. phpMyAdmin is a free and open-source web-based tool written in PHP for managing MySQL databases. It provides a graphical interface for users to perform tasks such as creating databases, managing tables, and executing SQL queries. Together, these technologies form the foundation of modern web development, enabling developers to create dynamic, interactive, and visually appealing websites and web applications.

6.4 Sustainability

The sustainability of an animal healthcare project depends on various factors, including financial stability, community engagement, and long-term planning. Financial sustainability involves securing funding sources to cover operational costs, veterinary care, and infrastructure maintenance. This could include grants, donations, partnerships with local businesses, or fee-for-service models. Community engagement plays a crucial role in sustaining support for the project, as it fosters a sense of ownership and responsibility among stakeholders. Educating the community about responsible pet ownership, promoting adoption programs, and offering low-cost veterinary services can help build trust and collaboration. Additionally, long-term planning involves establishing protocols for continued care, including vaccination programs, spaying/neutering initiatives, and emergency response plans. By addressing these aspects comprehensively and fostering collaboration among stakeholders, animal healthcare projects can achieve sustainability and make a lasting impact on the well-being of animals in the community.

6.5 Cost Effectiveness

The cost-effectiveness of an animal health care project is crucial for maximizing its impact within a limited budget. It involves strategic resource allocation, prioritizing interventions based on their potential impact, and leveraging partnerships to share resources and expertise. Efficient management practices, such as electronic records and telemedicine, help streamline operations and reduce costs. Regular monitoring and evaluation ensure that resources are utilized effectively, leading to improved outcomes for animal welfare.

CHAPTER-7:CONCLUSION AND RECOMMENDATION

Limitations:

Data Accessibility: The breadth of information offered on the website may be limited by restricted access to extensive datasets on animal health information.

Regional Specificity: Information on the website may not be pertinent to other regions or nations because it is more specifically geared to other places.

Language Barrier: Users who do not speak the website's primary language may find it more difficult to access the content due to language barriers.

Technological Restrictions: Problems with compatibility between various browsers and devices may affect the user experience.

Dependency on Expertise: The knowledge of veterinarians and content authors may be crucial to the website's relevancy and accuracy of the material presented.

Financial Resources: The range of features and services that the website offers may be limited by budgetary restrictions.

Future Enhancements:

Support for several Languages: Adding support for several languages can improve accessibility and attract a larger audience. **Interactive Features:** You can improve the user experience by including interactive tools like forums for community involvement, interactive maps for locating veterinary clinics, and symptom checkers.

Mobile Application: Creating a companion mobile application for the website can increase consumers' on-the-go accessibility and convenience.

Integration of Telemedicine: Adding telemedicine features to allow for remote veterinary consultations can benefit users even more.

Machine Learning Integration: Making use of machine learning algorithms to offer predictive analysis and customized suggestions based on user data.

Community Building: Establishing a forum for users to ask questions, exchange experiences, and offer support to one another.

Individual Contribution by members

1. 21MIP10022 - Akshat Agrawal



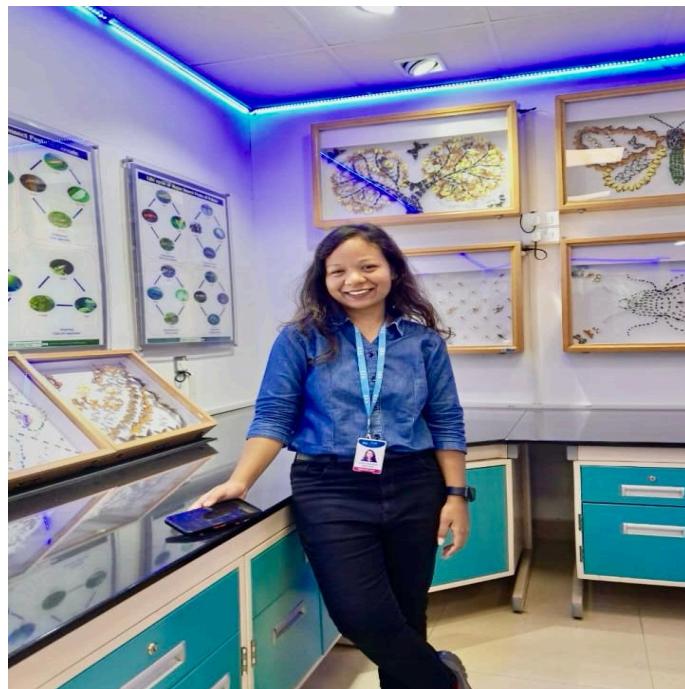
The modification of certain elements of the homepage and addition of the css attributes to the tabs or sections, making the website functional with the help of Js so that the site can perform tasks intended for it and give the best user experience. The website contains links to many other sites made by us only to give more options to the user and provide more functionality to the website. The footer links like pet grooming, pet parenting, blogs, about us, cookies, privacy policy and terms and conditions all are provided to make sure the user does not find themselves short of content and has to navigate to other sites for more information. I have done research on literature Review as well it emphasizes the value of an integrated strategy for animal healthcare, with an emphasis on illness prevention, veterinarian treatment, and training, as well as public awareness and education campaigns.

2. 21BCE11558 - Harsh Kotiwale ;



Creation of a chatbot using Python with the goal of aiding animal rescue operations. Using Streamlit for the user interface and Python code, I developed an interactive platform that allows users to quickly access critical information on animal rescue activities. I made sure that team members and future users could easily access and collaborate with the chatbot by hosting it on GitHub. The process of helping troubled animals is streamlined by the chatbot's easy-to-use dialogue interactions, which effectively provide vital information. This information might range from discovering nearby shelters to providing emergency contact numbers. All things considered, my input greatly improved the project's usability and accessibility, enabling people to act quickly and intelligently in favor of animal welfare.

3. 21MIP10028 - Suman Bhandari



I have design the **Website layout**. My primary goal as a website designer is to create an engaging and effective website that meets the needs and objectives of our aim of project. I ensured that the website is responsive and displays properly on different devices and screen sizes.

The structure of the homepage - navigation bar tabs - Home, Animal treatment, Animal Care, Contact NGOs - people can contact the nearby NGOs and can meetup or make deals on the phone only about what services they want or want to provide -; what links to be provided at the footer so that the customer having any doubt regarding the website or any additional info they want can be found there and their queries can be resolved as early as possible.

Implementation parts of this homepage like a slider of pictures of animals, the brief info of the **trainer, dietician and veterinary section** which are one of the most important people related to the animals.

4. 21MIP10007 - Naman Mishra:



Three main components comprised my contribution: coming up with novel ideas, evaluating current practices, and imagining scenarios for real-time implementation. First off, I was a key contributor to the description of cutting-edge tactics to improve the efficacy and efficiency of animal rescue operations, taking into account elements like user involvement and data accessibility. Second, I carefully examined and assessed the current approaches used in animal health rescue projects, noting their advantages, disadvantages, and potential areas for development. Lastly, I imagined how our suggested solutions may be easily incorporated into real-world circumstances to offer prompt aid and support for animal welfare projects. I created real-time usage scenarios. My contribution set the foundation for the creation of a thorough and significant solution in our Animal Health Rescue initiative by addressing these important factors.

5. 21BCG10127 - Devansh Biyani;



Writing test cases and test plans was one of the duties in order to make sure that the website's features and operations were adequately tested. To make sure the website is operating properly and that new modifications do not compromise current functionality, i carried out several sorts of testing, including functional testing, usability testing, and regression testing. Additionally, in charge of generating bug reports and coordinating with the development team to prioritize and address problems. I discussed the problems he has discovered with the team and has collaborated with them to guarantee that the website's quality is always increasing. In addition i have been in charge of keeping an eye on the website's performance and making sure it complies with team standards. He has tracked website metrics with tools like Google Analytics and used the information to pinpoint areas that need development.

6. 21BCE10837 - Stiena Wilson Anthony



Session Management: Initiated user sessions and implemented security checks to manage access and ensure secure logouts.

Authentication: Built a secure login system with password hashing and SQL injection prevention for user data protection.

Registration: Developed a registration form with robust validation and error handling to streamline the user sign-up process.

Database Connection: Established reliable database connectivity using Xampp and handled errors to ensure smooth data operations.

Frontend Integration: Ensured seamless data flow between server-side and client-side components.

7. 21BCE10457 - Vanessaa Syrish Daniel;



I led the design and development of the system architecture, ensuring that it met the project requirements and followed best practices.

- I created the flow diagram to visually represent the workflow of the animal healthcare system, which helped in understanding the system's functionality and identifying areas for improvement.
- I collaborated with team members to integrate the architecture and flow diagram into the overall project framework, ensuring that they were aligned with the project goals and objectives.

8. 21BCE11071 - Aryanshi Maheshwari



I assisted in the quality assurance of the project .Assisted in identifying bugs, failures, and performance problems using a variety of testing tools and approaches. In order to guarantee that any concerns are immediately resolved and that the website is always getting better, he has also worked closely with the development team. Assisting in writing test cases in order to make sure that the website's features and operations were adequately tested. These test make sure if all the parts of the project are functional and are working without any error. The main task was to collect the data and verify it. As our project is related to a very sensitive background which is animal care. So we needed to make sure that all the information we are putting on the website is checked and verified.

CONCLUSION

Humanity requires a comprehensive ecosystem that caters to the diverse needs of every species, all accessible in one centralized location. Through the development of a specialized web platform, we aim to create such an environment, providing a gateway to a full spectrum of services pertinent to pet care and welfare. Our efforts extend to addressing the plight of street animals, offering solutions and support to improve their living conditions.

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Moreover, our website serves as a marketplace for users to list and discover items related to animal care. This feature ensures that both producers and consumers can fulfill their respective needs efficiently, creating a symbiotic relationship that benefits all parties involved.

In essence, our initiative is not just about creating a website; it's about building a community-driven ecosystem that supports the well-being of animals and meets the needs of those who care for them. By integrating various services and stakeholders, we strive to enhance the lives of pets and street animals alike, ensuring they receive the care and attention they deserve.

1. Reference:

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