B.Sc. Engg. Project

A Project on Pet Care For Vaccination
Group: 02

by

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Abstract

Pet Care for Vaccination System is a web-based application designed to help pet owners keep their pets healthy and protect them from disease. The system includes recommended vaccination schedules based on the pet's age, breed and lifestyle, and allows pet owners to track their pet's vaccination history, schedule appointments you and receive reminders of upcoming vaccinations.The Pet Care for Vaccination system is built in HTML, CSS and JavaScript with a modern and intuitive user interface. The system is responsive and accessible from any device, including desktops, laptops and smartphones.The system is powered by a back-end database that stores owner and pet information, vaccination schedules and appointment data.The back-end is built using a server-side language such as PHP . Pet Care with the Vaccination System is an indispensable tool for pet owners who want to ensure their pets are healthy and disease free. It's user-friendly, convenient, and accessible anytime, anywhere, making it an invaluable resource for pet owners on the go.

Declaration

We declare that the project title, **Pet Care for Vaccination** and the work presented in it our own.we confirm that:

We,hereby declare that the discussion entitled,**Pet Care for Vaccination** being submitted by us towards the partial fulfillment of the requirement for the course of Software Development Plan,Department of Computer Science and Engineering is a project work carried by us under the supervisior of Mr. Shamim Ahmed Sir and have not been submitted anywhere else.We will be the responsible if any mistake found there .

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Certificate

This is to certify that Copyright by Tamima Nisat (ID: 19202103309),Al Rifat Hasan (ID: 19202103311),Neyamul Haque(ID: 19202103320) and Kaniz Farzana (ID: 19202103413) were belong to the department of Computer Science and Engineering, have completed their Project on **Pet Care for Vaccination** satisfactorily in partial fulfillment for the requirement of Bachelor of Science in Computer Science and Engineering of Bangladesh University of Business and Technology in the year 2023.

Dedication

Dedicated to our parents, teachers, friends and who loved us for all their love and inspiration.

Acknowledgment

We would like to pay our gratitude to the Almighty Allah who created us with all the abilities to understand analysis and develop the process with patience. We are thankful to our project supervisor Mr. Shamim Ahmed, Assistant Professor,, Department of Computer Science and Engineering , Bangladesh University of Business and Technology for his professional guidance and motivation during the work of this project which is a major part of it. Without his valuable support and guidance, this project could not reach this level of development from our point of view.

We would like to thank all the Faculty members, Department of CSE, Bangladesh University of Business and Technology for their valuable time spend in requirements analysis and evaluation of the project work. We would like to express our sincere and warm gratitude to all those who have encouraged us directly, provided mental encouragement and criticized our work in several phases during the development of this project and for preparing this project indirectly.

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Approval

A Project on **Pet Care for vaccination** is submitted by Tamima Nisat (ID: 19202103309),Al Rifat Hasan (ID: 19202103311), Neyamul Haque(ID: 19202103320) and Kaniz Farzana (ID: 19202103413) under the department of Computer Science and Engineering of Bangladesh University of Business and Technology is accepted in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering

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Chapter 1

Introduction

1.1 Introduction

Pet Care for Vaccination System is an essential service that provides pet owners with the ability to keep their beloved pets healthy and free from various diseases. Vaccinations are an important part of pet care and can prevent serious illnesses and infections in pets.

This system usually includes a recommended vaccination schedule based on the animal's age, breed and lifestyle. Pet owners can use the system to track their pet's vaccination history, schedule appointments, and receive reminders when their pet is next vaccinated. Pet care for the vaccination system is often provided by veterinary clinics, veterinary hospitals, and other pet care providers. Designed to be convenient and easy to use, it provides pet owners with the information they need to make informed decisions about their pet's health.

By using the Pet Care System for vaccination, pet owners can help ensure that their pets are free from various diseases. This helps to improve the general health and well-being of the animal and provides peace of mind to its owner.

1.2 Problem Statement

The Pet Care for Vaccination system aims to address pet owners' lack of awareness and organization when it comes to pet vaccinations. Many pet owners may be unaware of the recommended vaccination schedule for their pets or may forget to schedule vaccination appointments

for their pets. This puts pets at risk of contracting preventable diseases.
Additionally, the current process of administering pet vaccines can be cumbersome and time-consuming. Pet owners may need to keep track of vaccination records on paper or through various digital platforms, making it difficult to stay organized and up to date. Pet Care for Vaccination System aims to solve these problems by providing pet owners with a user-friendly and centralized platform to manage their pets' vaccinations. The system is designed to increase awareness and education about pet vaccinations and provide pet owners with the tools to easily schedule appointments and track their pet's vaccination history. Ultimately, pet care for vaccination systems is all about improving the health and well-being of pets and providing peace of mind for their owners.

1.3 Definition of Terms

- Pet Care: The act of providing care and attention to domestic animals, including but not limited to feeding, grooming, and veterinary care.
- Vaccination: The act of administering a vaccine to an animal to provide immunity against a specific disease or illness.
- Schedule: A plan or timetable that outlines a series of events or activities, such as a recommended schedule of vaccinations for pets.
- Backend database: A collection of data that is stored and managed on a server and accessed through a software application, such as a Pet Care for Vaccination System.For Backend we use XAMPP Server.
- Server-side language: A programming language used to create server-side applications, which process data and respond to requests from client-side applications, such as a web browser. Examples include PHP.
- Frontend: The user-facing part of a software application that interacts with the user, typically created using HTML, CSS, and JavaScript.

1.4 Purpose of the Study

The purpose of studying pet care for vaccination is to better understand how to protect pets from infectious diseases by ensuring that they receive the necessary vaccinations. This involves learning about the different types of vaccinations available for pets, the timing of when they should be administered, and any potential risks or side effects associated with each vaccine.

Additionally, the study may explore how to properly care for pets before and after vaccinations to ensure that they are comfortable and healthy. This may include providing information on how to monitor pets for any adverse reactions to vaccines, as well as offering tips on how to keep pets calm and comfortable during the vaccination process.

Overall, the goal of studying pet care for vaccination is to promote the health and well-being of pets by ensuring that they receive the necessary vaccinations and are properly cared for before and after receiving these vaccinations.

1.5 Motivation

- Protection from diseases: Vaccines protect your pet from various illnesses, including some that can be fatal. By vaccinating your pet, you are reducing the risk of them contracting these diseases and suffering from their severe symptoms.
- Cost-effective: Vaccines are much cheaper than the cost of treating a sick pet. The cost of treating an unvaccinated pet for a serious illness can be very high, and in some cases, the illness can even be fatal. By vaccinating your pet, you are protecting them from these diseases and saving yourself from the high cost of treatment.
- Protects other animals: Vaccinating your pet not only protects them but also helps prevent the spread of diseases to other animals they come in contact with. This is particularly important if you have multiple pets, or if your pet frequently interacts with other animals.
- Required by law: Some vaccines are required by law, such as the rabies vaccine. Failing to vaccinate your pet could result in legal penalties.

Overall, getting your pets vaccinated is an important aspect of pet care that helps keep them healthy and protected from various illnesses.

1.6 Objectives

- To protect pets from infectious diseases: The primary objective of pet vaccination is to protect them from infectious diseases, which can cause severe illness or even death.
- To promote herd immunity: Vaccination not only protects individual pets but also promotes herd immunity. This means that when a significant proportion of the pet population is vaccinated, the spread of infectious diseases can be reduced, protecting even unvaccinated pets.
- To comply with legal requirements: Vaccination is often required by law to prevent the spread of diseases such as rabies. Compliance with these legal requirements is essential to avoid legal penalties.
- To promote responsible pet ownership: Vaccination is a crucial aspect of responsible pet ownership. It helps ensure the health and well-being of pets and also protects other pets and humans from infectious diseases.
- To save on healthcare costs: By vaccinating pets, pet owners can avoid the high costs associated with treating infectious diseases. Vaccination is often less expensive than treatment for a severe illness, which can be financially and emotionally taxing for pet owners.

In summary, the objectives of pet care for vaccination are to protect pets from infectious diseases, promote herd immunity, comply with legal requirements, promote responsible pet ownership, and save on healthcare costs.

1.7 Contributions

Pet care for vaccination contributes to several areas, including:

- Public health: Vaccination of pets helps prevent the spread of zoonotic diseases, which can be transmitted from animals to humans. By vaccinating pets, we can reduce the risk of human exposure to these diseases.
- Animal welfare: Vaccination is an essential aspect of responsible pet ownership, and it helps ensure the health and well-being of animals. By vaccinating pets, we can protect them from infectious diseases and prevent unnecessary suffering.
- Economic benefits: Vaccinating pets can have economic benefits by reducing the cost of treating infectious diseases. This can benefit pet owners, veterinarians, and the wider community by reducing the financial burden of treating these diseases.
- Environmental benefits: By promoting herd immunity, vaccination can help protect wildlife from infectious diseases that can be transmitted by domestic animals. This is particularly important in areas where domestic animals and wildlife coexist.

In summary, pet care for vaccination contributes to public health, animal welfare, economic benefits, environmental benefits, and compliance with legal requirements.

1.8 Conclusions

In conclusion, Pet vaccination is an important aspect of responsible pet ownership that helps protect pets from infectious diseases, prevent the spread of diseases to other animals and humans, and comply with legal requirements. Vaccines are available for a range of infectious diseases, and some vaccines are required by law, such as the rabies vaccine.
A recommended vaccination schedule for pets can help ensure that they receive the appropriate vaccines at the right time, based on their age, lifestyle, and risk factors.While there are potential risks and side effects associated with pet vaccination, these risks are generally low, and the benefits of vaccination far outweigh the risks.
Overall, pet vaccination is an essential aspect of pet care that can help protect pets, promote public health, and contribute to responsible pet ownership.

Chapter 2

Existing System

2.1 Introduction

The existing system for the "Pet for Vaccination" refers to the current state of pet vaccination data collection, analysis, and reporting. This system includes a range of stakeholders, such as veterinarians, pet owners, public health officials, and researchers, who collect and analyze data related to pet vaccination rates and related health outcomes. The existing system involves various data collection methods, including surveys, clinical data, and administrative data, which are analyzed using a range of statistical methods to identify patterns and trends. The existing system also includes various communication methods, such as publications, conferences, and public health campaigns, to communicate key findings and recommendations to stakeholders. However, the existing system may have limitations, such as incomplete data, inconsistent reporting, and gaps in communication. As a result, there may be opportunities to improve the existing system and enhance the effectiveness of pet vaccination programs. A proposed model for the "Pet for Vaccination" report could help address these limitations by providing a more comprehensive approach to data collection, analysis, and reporting and by making practical recommendations for improving pet vaccination rates and related health outcomes.

2.2 Existing System

The existing system for the "Pet for Vaccination" involves multiple stakeholders, including pet owners, veterinarians, public health officials, and researchers, who collect and analyze data related to pet vaccination rates and related health outcomes. The system involves various data collection methods, such as surveys, clinical data, and administrative data, which are analyzed using statistical methods to identify patterns and trends. Communication methods, such as publications, conferences, and public health campaigns, are used to disseminate key findings and recommendations to stakeholders.

However, the existing system may have limitations, such as incomplete data, inconsistent reporting, and gaps in communication. For example, pet owners may not always report their pets' vaccination status accurately, and veterinarians may not consistently report vaccination data to public health officials. Additionally, some areas may lack access to veterinary care, making it more challenging to accurately track vaccination rates in those regions. Furthermore, communication gaps may exist between stakeholders, which could impede efforts to improve pet vaccination rates and health outcomes.

Therefore, there may be opportunities to improve the existing system by addressing these limitations. For instance, efforts could be made to improve data collection methods and standardize reporting to ensure more complete and accurate data. Increased collaboration between stakeholders and improved communication could also help identify gaps and promote more effective vaccination programs. By improving the existing system, stakeholders could better track pet vaccination rates and improve pet health outcomes.

2.3 Existing Literature

There is a significant amount of literature available on pet care for vaccination, including scientific research articles, veterinary guidelines, and popular press articles. Some of the key topics covered in this literature include:

- Vaccine-preventable diseases: The literature provides detailed information on the various infectious diseases that vaccines can prevent in pets. This includes diseases such as rabies,

distemper, parvovirus, and feline leukemia virus.

- Vaccine types and schedules: The literature discusses the various types of vaccines available for pets and provides guidance on the appropriate vaccine schedules based on a pet's age, lifestyle, and risk factors.

- Vaccine efficacy and safety: The literature examines the efficacy and safety of various vaccines for pets and provides information on potential side effects and adverse reactions.

Overall, the existing literature on pet care for vaccination provides a comprehensive understanding of the importance of vaccination in protecting the health of pets and the wider community. It highlights the need for education and access to affordable and accessible veterinary care to ensure that all pets receive the necessary vaccinations to maintain their health and prevent the spread of infectious diseases.

2.4 Analysis of Existing System

The existing system of pet care for vaccination has several strengths, but there are also some weaknesses and challenges that need to be addressed.

- Strengths:Vaccination is an effective way to protect pets from infectious diseases.Many vaccines are required by law, such as the rabies vaccine, which helps ensure that pets receive the necessary protection.Vaccination can also prevent the spread of diseases to other animals and humans, making it an important public health measure.

- Weaknesses and challenges:Some pet owners may not have access to veterinary clinics or may not be able to afford the cost of vaccinations, which can lead to a lack of compliance with recommended vaccination schedules.There may be concerns among some pet owners about potential side effects or a lack of understanding of the benefits of vaccination, which can also lead to non-compliance.There is also the possibility of adverse reactions to vaccines, although this is relatively rare.

Overall, while the existing system of pet care for vaccination is generally effective, there is a need to address the challenges associated with it to ensure that all pets receive the necessary vaccinations to protect their health and the health of the wider community.

2.5 Conclusion

In conclusion, the existing system of pet care for vaccination has been shown to be generally effective in protecting pets from infectious diseases and preventing the spread of zoonotic diseases. However, there are also weaknesses and challenges that need to be addressed, such as lack of compliance with recommended vaccination schedules, concerns among some pet owners about the safety and efficacy of vaccines, and limited access to affordable veterinary care. To address these issues, there is a need for increased education and awareness about the importance of vaccination, innovative approaches to pet care, and improved access to veterinary services for underserved populations. By addressing these challenges, we can ensure that all pets receive the necessary vaccinations to protect their health and the health of the wider community.

Chapter 3

Proposed Model

3.1 Introduction

Vaccination is an essential component of preventive healthcare for pets. Vaccines protect pets from a range of infectious diseases that can cause serious illness, lifelong health problems, and even death. Despite the importance of vaccination, many pet owners may be unaware of the benefits of vaccination, hesitant to vaccinate their pets, or face challenges accessing veterinary care. The purpose of this report is to provide a comprehensive overview of the current state of pet vaccination rates, the prevalence and impact of vaccine-preventable diseases in pets, and areas for future research and action to improve pet health and well-being. This report will examine the evidence on the safety and efficacy of vaccines for pets, identify barriers to vaccination, and provide recommendations for improving pet vaccination rates. Ultimately, the goal of this report is to raise awareness of the importance of pet vaccination and to promote policies and practices that support optimal pet health and well-being.

3.2 Feasibility Study

A feasibility study for the "Pet care for Vaccination" report would consider the practicality and viability of conducting such a report. Some key factors to consider in the feasibility study could include:

1.Data Availability: The feasibility study would need to determine whether there is sufficient data available on pet vaccination rates, vaccine-preventable diseases, and related topics to conduct the report. If the data is not readily available, the report may require extensive data collection efforts, which could impact the feasibility of the report.

2.Resources: The feasibility study would need to consider the resources needed to conduct the report, including personnel, funding, and time. If the resources required for the report are not available, it may not be feasible to undertake the report.

3.Stakeholder Support: The feasibility study would need to consider the level of support for the report from stakeholders, including pet owners, veterinarians, and policymakers. If there is not sufficient support for the report, it may be difficult to gather the necessary data and implement the report's recommendations.

4.Scope: The feasibility study would need to consider the scope of the report and whether it is feasible to cover all relevant topics within the given timeframe and resources. If the scope is too broad or the timeframe is too short, it may not be feasible to undertake the report.

5.Impact: The feasibility study would need to consider the potential impact of the report, including whether it is likely to lead to improvements in pet vaccination rates, pet health outcomes, and related outcomes. If the potential impact is low, it may not be feasible to undertake the report.

Overall, a feasibility study for the "Pet for Vaccination" report would need to consider a range of factors to determine whether it is practical and viable to undertake the report. If the feasibility study determines that the report is feasible, it could be an important tool for improving pet health and well-being.

3.3 Requirement Analysis

A requirement analysis for the "Pet care for Vaccination" report would involve identifying the key requirements for the report's development and implementation. Some of the key requirements for the report could include:

1.Data Requirements: It requires access to accurate and comprehensive data on pet vaccination rates, vaccine-preventable diseases, and related topics. The data would need to be collected from a range of sources and be analyzed to identify patterns and trends.

2.Expertise Requirements: It requires expertise in public health, veterinary medicine, and data analysis to ensure that the data collected is reliable and analyzed effectively. It may also require input from pet owners, veterinarians, and other stakeholders to ensure that the report's recommendations are practical and feasible.

3.Reporting Requirements: It needs to be comprehensive, well-organized, and easily understood by various stakeholders, including pet owners, veterinarians, and policymakers. It may also require the development of visual aids, such as charts and graphs, to help communicate complex data and analysis.

4.Implementation Requirements: The report's recommendations would need to be practical and feasible to implement. It may require the development of targeted communication strategies to ensure that the recommendations reach the intended audiences and are effectively implemented.

5.Evaluation Requirements: The effectiveness needs to be evaluated to determine whether it has led to improvements in pet vaccination rates, pet health outcomes, and related outcomes. This could involve developing metrics and conducting follow-up surveys or data collection efforts.

Overall, a requirement analysis for the "Pet for Vaccination" report would involve identifying the key requirements for the report's development and implementation and ensuring that these requirements are carefully considered and addressed. The requirement analysis would need to be adaptable to changing circumstances and data and consider the needs and perspectives of various stakeholders.

3.4 System Design

3.4.1 Context Diagram

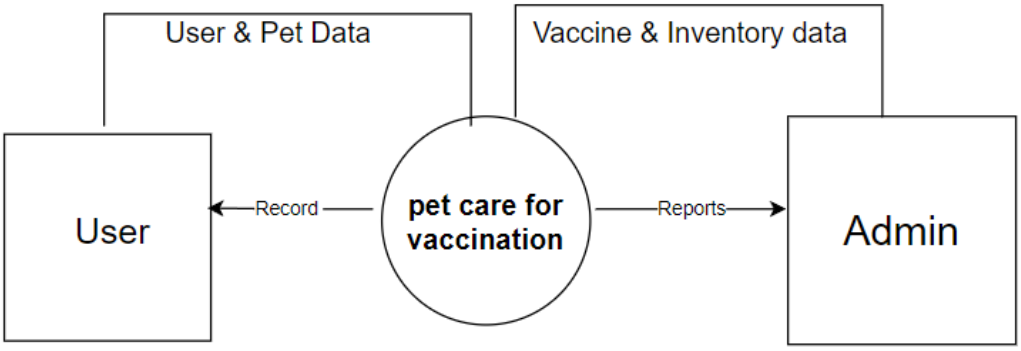


Figure 3.1: Context Diagram

3.5 Implementation

The implementation of pet care for vaccination involves a range of activities aimed at ensuring that all pets receive the necessary vaccinations to protect their health and prevent the spread of infectious diseases. Some of the key components of implementing pet care for vaccination include:

- Education and awareness: This involves providing pet owners with information about the importance of vaccination, the types of vaccines available, and the recommended vaccination schedules. This can be done through public awareness campaigns, community outreach programs, and educational materials.

- Veterinary services: Access to affordable and accessible veterinary services is critical to ensuring that all pets receive the necessary vaccinations. This may involve partnering with local veterinary clinics, developing mobile veterinary clinics, or offering low-cost vaccination clinics in underserved communities.

- Collaboration: Collaboration between veterinarians, public health officials, and other stakeholders is critical to implementing effective pet care for vaccination programs. This may involve developing partnerships to improve access to veterinary care, sharing best

practices and resources, and working together to address challenges and barriers to vaccination.

Overall, the implementation of pet care for vaccination involves a multifaceted approach that requires collaboration, education, and access to veterinary services. By implementing these strategies, we can ensure that all pets receive the necessary vaccinations to protect their health and prevent the spread of infectious diseases.

3.6 Conclusions

In conclusion, the proposed model for the "Pet care for Vaccination" involves a comprehensive approach to collecting data, analyzing trends, and making recommendations to improve pet vaccination rates and pet health outcomes. The model includes several key components, including data collection, analysis, report generation, communication, and evaluation. The system design would need to be carefully planned and executed to ensure that the report is comprehensive, reliable, and effective in improving pet health outcomes. The requirements analysis would need to be adaptable to changing circumstances and data and consider the needs and perspectives of various stakeholders. Ultimately, the proposed model has the potential to improve pet vaccination rates and pet health outcomes by providing a comprehensive overview of trends and making practical recommendations for improving pet health outcomes.

Chapter 4

Experimental Results

4.1 Introduction

Vaccination is an important aspect of pet care that can protect your furry friend from a range of infectious diseases. Vaccines work by stimulating the immune system to produce antibodies against specific disease-causing agents. By doing so, vaccines can prevent or reduce the severity of infections and help protect pets from serious and potentially life-threatening diseases. Overall, vaccination is an important part of responsible pet ownership and can help keep your furry friend healthy and happy for years to come.

4.2 Result Analysis

Vaccination can help protect your pets from infectious diseases and potentially life-threatening illnesses. By vaccinating your pets, you can reduce the risk of them contracting diseases such as distemper, parvovirus, hepatitis, rabies, feline viral rhinotracheitis, calicivirus, and panleukopenia. In addition to protecting your pets, vaccination can also help prevent the spread of diseases to other animals and even humans. Some diseases, such as rabies, can be transmitted from animals to humans, making vaccination not only important for your pet's health but also for public health. It's important to follow a vaccination schedule recommended by your veterinarian, as this can help ensure that your pets are protected from diseases throughout their lives.

In summary, vaccination is a crucial aspect of responsible pet ownership and can help keep your furry friends healthy and happy. It's important to consult with your veterinarian to determine which vaccines are necessary for your pets and to follow a recommended vaccination schedule.

4.3 Applications

There are several applications of pet care for vaccination that are beneficial for both pets and their owners. Here are some of the main applications:

- Disease prevention: Vaccination is one of the most effective ways to prevent infectious diseases in pets. By vaccinating your pets, you can reduce their risk of contracting and spreading diseases such as rabies, distemper, parvovirus, and many others.
- Public health: Vaccinating pets can also have important public health benefits. Some diseases that affect animals, such as rabies, can also be transmitted to humans, so vaccinating pets can help prevent the spread of these diseases to humans.
- Cost savings: While vaccines do come with a cost, the cost of treating a pet for a serious, vaccine-preventable disease can be much higher. Vaccinating your pets can help prevent expensive medical bills and potentially save you money in the long run.

In summary, the applications of pet care for vaccination are numerous and can benefit both pets and their owners. By vaccinating your pets, you can help prevent diseases, ensure their long-term health, and potentially save money on expensive medical bills.

4.4 Conclusions

In conclusion, pet care for vaccination is a crucial aspect of responsible pet ownership that can help protect your furry friends from a range of infectious diseases. Vaccines stimulate the immune system to produce antibodies against specific disease-causing agents, helping to prevent or reduce the severity of infections and protect pets from serious and potentially life-threatening illnesses.

Vaccination also has important public health benefits, as some diseases that affect animals can

also be transmitted to humans. By vaccinating pets, we can help prevent the spread of these diseases to humans.

Overall, pet care for vaccination is an important aspect of responsible pet ownership that can help ensure the health and well-being of our furry friends. By working with your veterinarian and following recommended vaccination schedules, you can help keep your pets healthy and happy for years to come.

Chapter 5

User Manual

5.1 Introduction

The user manual provide instructions on how to use any service. Here it is written in simple language and include visuals to help users understand the information.

5.2 System Requirements

System requirements are specifications for hardware and software components necessary to run a particular program or application.

5.2.1 Hardware Requirements

Device: A device with a screen, such as a desktop computer, laptop, tablet, or smartphone.
Processor: A processor capable of running modern web browsers, such as Intel Core i3, AMD Ryzen 3, or equivalent.

Figure 5.1: Example PNG image

RAM: At least 4 GB of RAM to ensure smooth browsing experience.

Storage: Sufficient storage to store the web browser and other applications.

Internet connection: A reliable internet connection with a minimum speed of 3 Mbps to access web content.

5.2.2 Software Requirements

5.2.3 Xampp

XAMPP is used to symbolize the classification of solutions for different technologies. It provides a base for testing of projects based on different technologies through a personal server. XAMPP is an abbreviated form of each alphabet representing each of its major components.

This collection of software contains a web server named Apache, a database management system named MariaDB and scripting/ programming languages such as PHP and Perl. X denotes Cross-platform, which means that it can work on different platforms such as Windows, Linux, and Mac OS X's . It is a platform that provides a suitable environment for testing and verifying the functionality of projects based on Apache, Perl, MySQL, and PHP using the host's system.

Figure 5.2: Xampp Web Server)

5.3 Languages

5.3.1 Front-end

HTML, CSS, JavaScript

The three main languages we use to build websites are HTML, CSS, and JavaScript.
JavaScript is the programming language, we use HTML to structure the site, and we use CSS to design and layout the web page.
The HyperText Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

HTML is at the core of every web page, regardless the complexity of a site or number of technologies involved. CSS (Cascading Style Sheets) is used to style and layout web pages — for example, to alter the font, color, size, and spacing of your content, split it into multiple columns, or add animations and other decorative features. JavaScript is a logic-based programming language that can be used to modify website content and make it behave in different ways in response to a user's actions.

Figure 5.3: HTML, CSS and JavaScript

5.4 Back-end

PHP

PHP (Hypertext Preprocessor) is an open-source, interpreted, and object-oriented scripting language that can be executed at the server-side and is embedded in HTML. PHP is used for server-side programming which will interact with databases to retrieve information, storing, email sending, and provides content to HTML pages to display on the screen. When a web server receives a script, it will process the request and send output to a web browser in an HTML format. A web server database stores the information so other users can't access the data and source code.

Figure 5.4: PHP Language

5.5 Database

5.5.1 MySQL

MySQL is the most popular Open Source Relational SQL database management system.

It is supported by Oracle Company. It is fast, scalable, and easy to use database management system in comparison with Microsoft SQL Server and Oracle Database. It is commonly used in conjunction with PHP scripts for creating powerful and dynamic server-side or web-based enterprise applications. It is developed, marketed, and supported by MySQL AB, a Swedish company, and written in C programming language and C++ programming language. MySQL supports many Operating Systems like Windows, Linux, MacOS, etc. with C, C++, and Java languages.

Figure 5.5: MySQL

5.6 Snapshots

Start Window

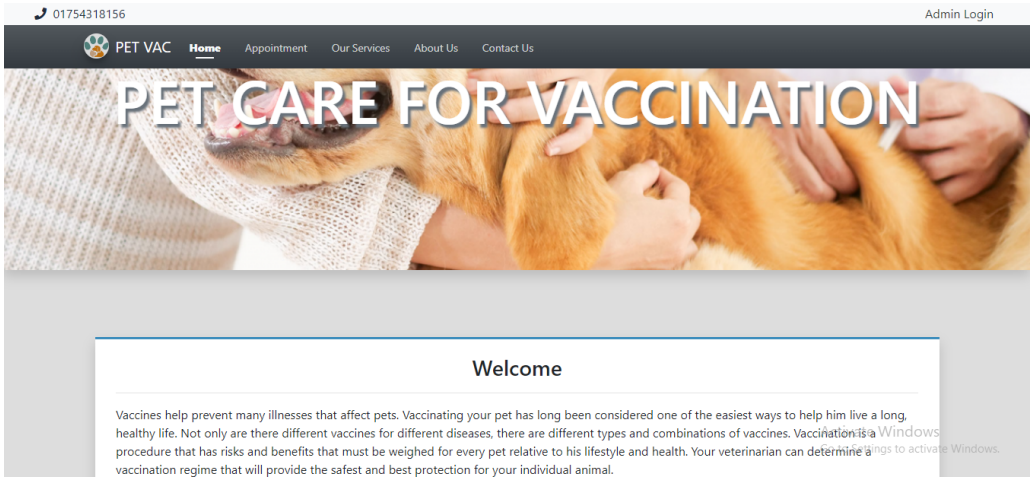


Figure 5.6: Home Page

Our Services

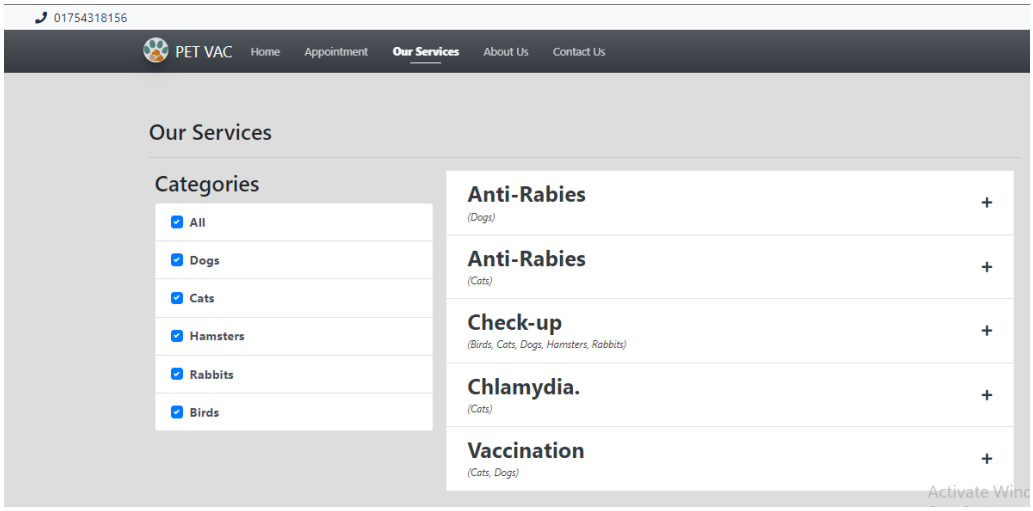


Figure 5.7: Our Services

Appointment

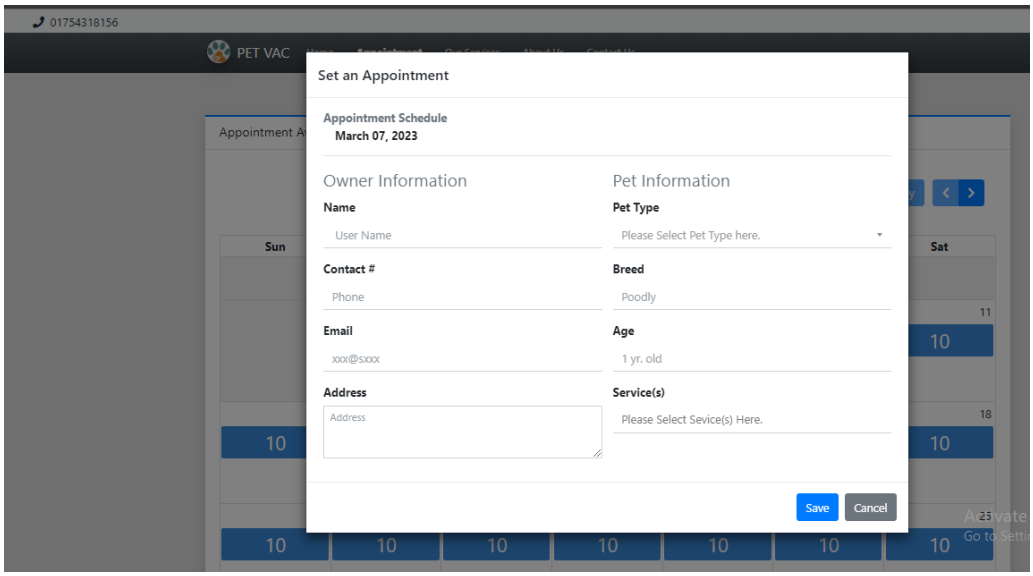


Figure 5.8: User Panel

Dashboard

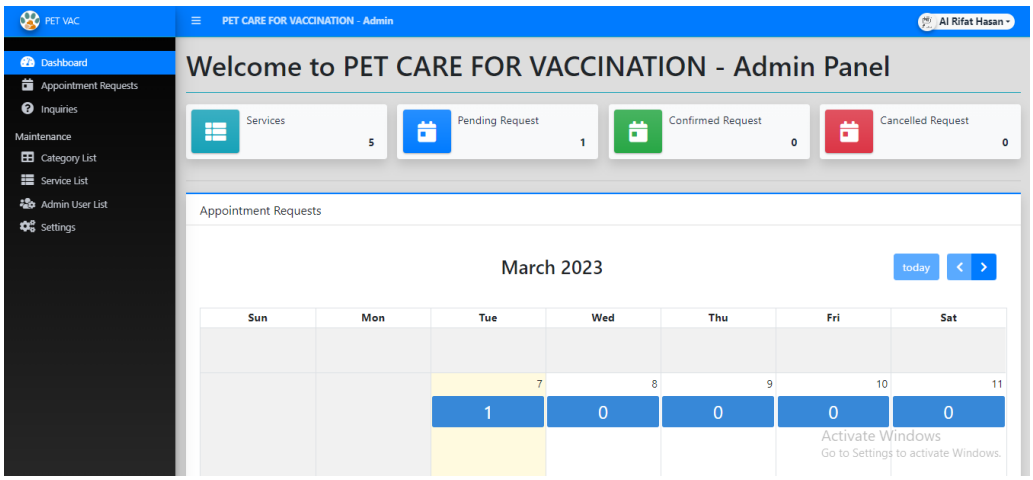


Figure 5.9: Dashboard

Appointment Database

Figure 5.10: Appointment Database

Categories Database

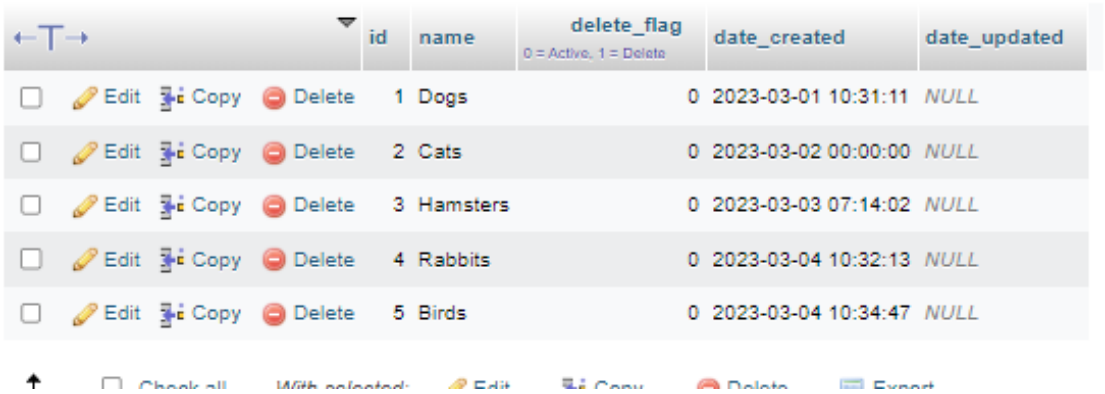
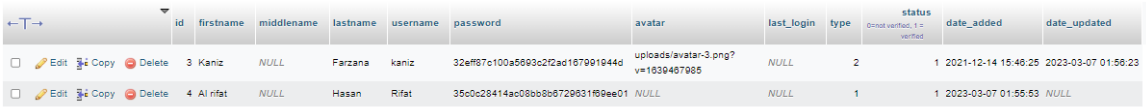


Figure 5.11: Categories Database

User Database & System Database



	id	firstname	middlename	lastname	username	password	avatar	last_login	type	status (0=not verified, 1 = verified)	date_added	date_updated
Edit Copy Delete	3	Kaniz	NULL	Farzana	kaniz	32eff87c100a5693c2f2ad167991944d	uploads/avatar-3.png?v=1639467985	NULL	2	1	2021-12-14 15:46:25	2023-03-07 01:56:23
Edit Copy Delete	4	Al rifat	NULL	Hasan	Rifat	35c0c28414ac08bb8b672963f69ee01	NULL	NULL	1	1	2023-03-07 01:55:53	NULL

Figure 5.12: User Database

	id	meta_field	meta_value
Edit Copy Delete	1	name	PET CARE FOR VACCINATION
Edit Copy Delete	6	short_name	PET VAC
Edit Copy Delete	11	logo	uploads/fevicon logo.png
Edit Copy Delete	13	user_avatar	uploads/user_avatar.jpg
Edit Copy Delete	14	cover	uploads/cover-1641262651.png
Edit Copy Delete	15	content	Array
Edit Copy Delete	16	email	pet@gmail.com
Edit Copy Delete	17	contact	01754318156
Edit Copy Delete	18	from_time	11:00
Edit Copy Delete	19	to_time	21:30
Edit Copy Delete	20	address	Dhaka, Mirpur, 1216
Edit Copy Delete	23	max_appointment	10
Edit Copy Delete	24	clinic_schedule	9:00 AM - 5:00 PM

Figure 5.13: System Database

Chapter 6

Conclusion and Future Work

6.1 Conclusions

In conclusion, the "Pet for Vaccination" report emphasizes the crucial role of vaccination in maintaining the health and well-being of pets and humans. Vaccination protects pets from serious and potentially fatal diseases, reduces the risk of spreading diseases between animals and from animals to humans, and saves pet owners the costs of costly medical treatment for preventable diseases. Pet owners must work closely with their veterinarians to ensure their pets receive the appropriate vaccinations at the appropriate times, following recommended vaccination schedules. Public awareness campaigns can help educate pet owners about the importance of vaccination and the benefits of following recommended vaccination schedules. Vaccination is an essential preventive measure that should be prioritized by pet owners to ensure the safety and well-being of their pets and those around them.

Finally, public awareness campaigns can play a vital role in promoting the importance of vaccination. These campaigns can help educate pet owners about the benefits of vaccination and provide information on recommended vaccination schedules. They can also help raise awareness about the risk of disease outbreaks and the importance of preventing the spread of diseases between animals and from animals to humans.

Overall, the "Pet for Vaccination" report highlights the importance of vaccination in ensuring the health and well-being of pets and humans. By working closely with their veterinarians

and following recommended vaccination schedules, pet owners can help protect their pets from serious and potentially fatal diseases and reduce the risk of spreading diseases to other animals and humans.

6.2 Future Works Extensions:

There are several future works extensions that could be considered to expand upon the "Pet for Vaccination" report. Here are a few possibilities:

1.Research on vaccine safety and effectiveness: While vaccines are generally considered safe and effective, ongoing research is needed to ensure that they continue to be safe and effective over time. Future studies could focus on evaluating the safety and effectiveness of vaccines in different populations of pets, as well as investigating new vaccines for emerging diseases.

2.Developing new vaccines: As new diseases emerge or existing diseases become more prevalent, there may be a need to develop new vaccines to protect pets. Future works could focus on the development of new vaccines, including research on the safety and effectiveness of these vaccines.

3.Improving vaccination rates: Despite the importance of vaccination, some pet owners may be hesitant to vaccinate their pets. Future works could focus on strategies to improve vaccination rates, such as public education campaigns, outreach to under served communities, or incentives for pet owners who vaccinate their pets.

4.Addressing vaccine hesitancy: As mentioned earlier, some pet owners may be hesitant to vaccinate their pets due to concerns about safety or effectiveness. Future works could focus on addressing these concerns and providing accurate information about the benefits of vaccination.

5.Addressing global vaccine distribution: Some countries may have limited access to vaccines for pets, and there may be a need to improve global distribution of vaccines to ensure that pets around the world have access to necessary vaccinations. Overall, there are many areas in which future works could expand upon the "Pet for Vaccination" report, including research on vaccine safety and effectiveness, the development of new vaccines, strategies to improve vaccination rates, addressing vaccine hesitancy, and improving global vaccine distribution.