**Pet Vaccine Monitoring System Use Case Diagram**

Welcome to our blog post on the Pet Vaccine Monitoring System and its use case diagram! As a pet owner, ensuring the health and well-being of your furry friend is of utmost importance. Keeping track of their vaccination schedule can be a challenging task, but worry not! The Pet Vaccine Monitoring System is here to simplify the process for you.

In this article, we will explore the use case diagram of the Pet Vaccine Monitoring System, which provides a visual representation of how the system interacts with various actors, such as pet owners, veterinarians, and administrators. By understanding the use cases and functionalities depicted in the diagram, you'll gain valuable insights into how this system can streamline the management of pet vaccinations.

**About the Project**

Vaccinations help to keep numerous pet ailments at bay. Vaccinations can help people avoid expensive treatments for diseases that can be avoided. Vaccinations protect against diseases that can be transmitted between animals as well as from animals to humans. Certain pet diseases, such as rabies and leptospirosis, can be transmitted to people and cause serious illness. As a result, by immunizing your pet against certain diseases, you are not only protecting him or her, but also your family members. Thus, monitoring pet vaccination is extremely important. To fill in this gap, the researchers of the study proposed the development of the capstone project entitled “Web and Mobile based Pet Vaccine Monitoring System”. The said project is designed for pet owners. The concept would help pet owners keep track of their pets’ vaccinations. Getting pets vaccinated is another approach to keep pets fit and healthy and away from infections. The application’s implementation will greatly assist pet owners. The app will assist pet owners in keeping their pets fit and healthy despite their hectic schedules by monitoring their vaccinations. They can conveniently take care of their pets’ health while also saving time. The application is a very powerful and user-friendly solution for assisting pet owners with ease.

**Benefits of the System**

The Pet Vaccine Monitoring System offers a range of benefits that contribute to the overall well-being and health of pets. Firstly, this system provides a centralized and easily accessible platform for pet owners to manage and track their pets' vaccination schedules. By keeping track of vaccination dates and reminders, pet owners can ensure that their furry companions receive timely and appropriate vaccinations, safeguarding them against various diseases. This feature is particularly helpful for pet owners with busy schedules, as it eliminates the need to rely solely on memory or paper records.

Additionally, the Pet Vaccine Monitoring System enhances communication and collaboration between pet owners and veterinarians. Through the system, veterinarians can update vaccination records and share important information regarding vaccines and their effectiveness. This streamlines the process of veterinary care and ensures that all relevant parties are well-informed about a pet's vaccination history. Furthermore, the system facilitates better coordination among veterinary clinics, allowing seamless transfer of vaccination records between different healthcare providers if needed.

Moreover, the system promotes public health by ensuring proper vaccination coverage in the pet population. By encouraging pet owners to stay updated with their pets' vaccines, the system helps prevent the spread of infectious diseases that can be transmitted from animals to humans. This aspect is particularly crucial in densely populated areas where pets interact with each other and with humans regularly.

The Pet Vaccine Monitoring System offers convenience, improved communication, and public health benefits. By leveraging technology to manage pet vaccination records effectively, this system plays a significant role in promoting the health and well-being of pets while safeguarding human health.

**What is Use Case Diagram?**

A use case diagram is a visual representation that depicts the interactions between users (actors) and a system to achieve specific goals. In the context of the Pet Vaccine Monitoring System, a use case diagram illustrates the various functionalities and interactions of the system with different actors, such as pet owners, veterinarians, and administrators.

The use case diagram plays a crucial role in the development of the Pet Vaccine Monitoring System by providing a clear understanding of the system's requirements and functionalities. It helps identify and define the different use cases or actions that users can perform within the system. These use cases include tasks such as adding pet information, scheduling vaccinations, receiving vaccination reminders, updating vaccination records, and generating reports.

By visualizing the interactions between actors and the system, the use case diagram facilitates effective communication and collaboration among stakeholders, including developers, designers, and users. It ensures that all parties have a common understanding of the system's intended functionality and requirements.

**Use Case Diagram**

Pet Owner

Dashboard

Pet Owner Info

Pet Profile Info

Vaccine Information

Vaccination Schedule

Vet/Admin



Vaccination History

Pet Medical Records

Reports/Analytics

Database Backup

The image shown above is the design of the Use Case Diagram of the Pet Vaccine Monitoring System Use Case Diagram. As shown in the diagram, the system has only two user sides , the Vet/Admin and the Pet Owner. The Vet/Admin can access the entire core modules of the system while the Pet owner can access the Pet Profile Info, Vaccine Information, Vaccination Schedule, Vaccination History and Pet Medical Records of the system.

**Use Cases**

The following are the discussions that describe how a user uses a system to accomplish a particular goal.

**Use Case:** Dashboard

**Actor(s):** Vet**/**Admin

**Description:** This feature is used to manage the details displayed in the dashboard.

**Successful Completion:**

1. The vet/admin can search, add, update and remove dashboard details.

**Alternative:** The vet/admin can access all dashboard details

**Precondition:** The vet/admin will login to access and manage the dashboard

**Post Condition:** updated dashboard details

**Use Case:** Pet Owner Info

**Actor(s):** Vet**/**Admin

**Description:** This feature is used to manage the personal profile of pet owners registered in the system.

**Successful Completion:**

1. The vet/admin can register pet owner profile or account using this feature, for old pet owners, this is used to update their personal profile.
2. Vet/Admin can search, add, update and remove a pet owner data or profile.

**Alternative:** Admin can access all of the pet owner profile.

**Precondition:** New pet owner for registration, existing pet owner profile for updating

**Post Condition:** accepted pet owner registration and updated pet owner profile

**Use Case:** Pet Profile Info

**Actor(s):** Vet**/**Admin and Pet Owner

**Description:** This feature is used to manage the profile of the pets in the system.

**Successful Completion**:

1. Pet owners can use this feature to register their pets in the system.
2. Admin can search, add, update and remove a pet data or profile.

**Alternative:** Admin can access all of the pet’s profile.

**Precondition:** New pet for registration, existing pet profile for updating

**Post Condition:** accepted pet registration and updated pet profile

**Use Case:** Vaccine Information

**Actor(s):** Vet**/**Admin and Pet Owner

**Description:** This feature is used to manage the vaccine information of every pets registered in the system.

**Successful Completion**:

1. Pet owners can only view and read the vaccine information of their pet..
2. Admin can search, add, update and remove a pet vaccine information.

**Alternative:** Pet Owner can view vaccine information**;**Admin can access all of the pet’s vaccine information.

**Precondition:** The admin and the pet owner will need to login first to access the Pet Vaccine Information.

**Post Condition:** updated vaccine information

**Use Case:** Vaccination Schedule

**Actor(s):** Vet**/**Admin and Pet Owner

**Description:** This feature is used to manage the schedule of pet’s vaccination in the system.

**Successful Completion**:

1. Pet owners can use this feature to set vaccination schedule of their pets.
2. Admin can manage vaccination schedule of the pets..

**Alternative:** Pet Owner can view and set vaccination schedule**;**Admin can access all of the pet’s vaccination schedule.

**Precondition:** The admin and the pet owner will need to login first to access the Pet Vaccination Schedule.

**Post Condition:** listed and updated pet vaccination schedule

**Use Case:** Vaccination History

**Actor(s):** Vet**/**Admin and Pet Owner

**Description:** This feature is used to manage the vaccination history of pets to keep tracks of the vaccines they have received.

**Successful Completion**:

1. Pet owners can only view vaccination history of their pets and monitory it.
2. Admin can search, add, update and remove a pet vaccination history.

**Alternative:** Pet Owner can view vaccination history**;**Admin can access all of the pet’s vaccination history.

**Precondition:** The admin and the pet owner will need to login first to access the Pet Vaccination History.

**Post Condition:** updated vaccination history

**Use Case:** Pet Medical Records

**Actor(s):** Vet**/**Admin and Pet Owner

**Description:** This feature is used to manage the medical records of pets registered in the system.

**Successful Completion**:

1. Pet owners can only view pet medical records.
2. Admin can search, add, update and remove a pet medical record.

**Alternative:** Pet Owner can view pet medical record**;**Admin can access all of the pet’s medical record.

**Precondition:** The admin and the pet owner will need to login first to access the Pet Medical Record.

**Post Condition:** updated pet’s medical record.

**Use Case:** Reports/Analytics

**Actor(s):** Admin

**Description:**

This feature is used to view and print the reports in the system.

**Successful Completion:**

1. Admin can view, print and export the report of the Pet Vaccine Monitoring system.

**Alternative:** None

**Precondition:**

1. Admin will need to login to access the reports.

**Post Condition:** hard and soft copy of the report of the system.

**Use Case:** Database Backup

**Actor(s):** Admin

**Description:**

This feature is used to manage the backup database of the system.

**Successful Completion:**

1. The admin can add, edit, update database backup information.

**Alternative:** None

**Precondition:** Admin will create and connect the backup database.

**Post Condition:** new backup database.

**Summary**

The Pet Vaccine Monitoring System (PVMS) is a tool that helps pet owners keep track of their animals’ vaccination schedules and ensure that they receive the necessary vaccines in a timely manner. The PVMS sends automatic reminders when pets are due for vaccination, allowing pet owners to stay on top of their animals’ healthcare needs. The image shown above is the design of the Use Case Diagram of the Pet Vaccine Monitoring System Use Case Diagram. As shown in the diagram, the system has only two user sides , the Vet/Admin and the Pet Owner. The Vet/Admin can access the entire core modules of the system while the Pet owner can access the Pet Profile Info, Vaccine Information, Vaccination Schedule, Vaccination History and Pet Medical Records of the system.

**Meta Description**

Discover the benefits and functionalities of the Pet Vaccine Monitoring System through its use case diagram. Streamline pet vaccination management, receive reminders, and maintain accurate records. Keep your furry friends healthy and protected.

**Ad Copy**

"Ensure your furry friend's health with the Pet Vaccine Monitoring System! Simplify pet vaccination management, receive timely reminders, and maintain accurate records. Keep your beloved companion protected against diseases. Explore the use case diagram now!"