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| Module Code:PUSL2021 | Module Name: Computing Group Project |
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| Deadline Date: 25 October 2023 | Member of staff responsible for coursework: Pramudya Thilakaratne |
| Programme: BSC (HONS) IN SOFTWARE ENGINEERING | |
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PUSL2021 Computing Group Project (23/AU/M)

**Project Proposal**

10/23/2023

**Veterinary Management System**

**Group A 23**

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**Project Proposal for Veterinary**

**Management System**

# **Project Overview**

This proposal describes the creation of a web-based veterinary management system that will offer a range of capabilities to assist veterinarians and their staff in managing their practices more successfully and efficiently. The technology will also provide a convenient way for customers to book appointments and visit their location for animal check-ups, purchase and dispense prescription drugs and supplies, view their pets' medical information, and care for animals. Customers can reserve time and perform an animal channel using the system when arranging appointments or animal channels. Customers will be able to consult an animal behaviorist or veterinarian without having to bring their pet to the clinic thanks to this. Customers who reside in remote places or who have simple issues or concerns can take advantage of this easy alternative. Veterinarians will be able to store and maintain patient records, including contact details, medical histories, and treatment plans, using the system, which is also used in medical record management. This will make it simple for veterinarians to get the data they need to offer their patients the best treatment possible. The technology will also enable veterinarians to develop patient data reports that can be used to track trends and suggest areas for improvement. In terms of medicine distribution, clients will be able to get the medication they require for their animals through the system's website. Clients will save time and effort by not having to go to the clinic to pick their medicine. This is especially useful for clients who own several dogs or live a great distance away from the clinic. People can take pictures of helpless animals in the neighborhood or on the street and upload them to our website, then we will post the ads of those helpless animals on the website. Those who want to adopt those animals can get them from the website. The veterinarian management system will be built on a web-based platform, which will allow it to be accessed from any device with an internet connection. This means that veterinarians and their staff will have access to the system at any time and from any location. In the future, we plan to develop a mobile application, however, our primary goal is to develop a web-based application. To protect pets' data, the veterinarian management system will be hosted on a secure server and will employ industry-standard security measures. Clients may be certain that their pets' medical information is safe and secure.

# **Project Objectives**

The goals of this project are to:

* Customers can book appointments online.
* Make it possible for veterinarians to arrange appointments online.
* Make pet medical records available to veterinarians.
* Allow veterinarians to develop patient data reports.
* Customers can buy medicine and supplies online and Possibility of home delivery.
* Allow veterinarians to manage their medicine and supply inventories.
* Give veterinarians the ability to collect payments and issue invoices.
* Make it possible for clients to see their animals' medical records online.
* Make it possible for clients to connect with their veterinarian online.
* Users can post photos of helpless animals. Those who want to adopt helpless animals can accept them.
* Send appointment and vaccine reminders through email or message to customers.
* Allow veterinarians to adapt the system to their individual needs.
* Give veterinarians access to system support and training.
* Create a user-friendly interface for all website visitors.

# **Project Target Users**

Target consumers for your veterinary management system:

* **Veterinarians** - These cover responsibilities like appointment scheduling, medical record management, payment processing, etc.
* **Veterinary workforces -** This involves answering the phone, welcoming customers, checking in patients, etc.
* **Pet owners -** Pet owners will be able to book visits, examine their pet's medical data, and buy medicines and supplies online.
* **Animal Health Group -** Animal health groups may be interested in the system as a means of assisting veterinarians in providing improved animal care.
* **Delivery Team** - delivery team able to deliver the purchased items to the homes of the purchasers.
* **Shareholders -** The system may be of interest to shareholders as a business potential.

# **Application Features and Description**

Features and description of the veterinary management system.

* **User’s Signup and Login** – When users want to use, arrange meetings, and get medicines from our website users want to log in to our website and do those things easily.
* **Making Appointment -** Clients may arrange appointments online, and veterinarians can check and manage their own calendars. All visitors can understand how to arrange appointments. So, users know our website is a very user-friendly website on the internet.
* **Management of medical records -** It enables veterinarians to store and manage patient medical information, including medical histories, treatment plans, and protection records.
* **Medicine and Pet’s other things, management -** Allows veterinarians to keep track of their instructions and supply inventories and place orders for new supplies.
* **Client access portal -** Clients may view their animal’s medical data online, make appointments, and buy prescriptions and supplies.
* **Animal adoption-** People can upload useless animal photos and adopt animals on our website.
* **Veterinarians’ management -** It allows veterinarians to store and manage their medical information, such as medical histories, treatment plans, and client protection records, as well as arrange client consultations.
* **Financial Manage on our website -** Allows veterinarians to accept payments, produce invoices, and keep track of their money. Also, we always manage client’s payments.
* **Reports that can be customized -** Reports on pet data, inventory levels, and financial performance can be generated by veterinarians.
* **Reminders and Notifications -** Sends appointment and vaccine reminders to customers, as well as notifications to veterinarians concerning low inventory levels and future appointments.

# **Project Time Frame**

The project will be divided into the following stages. Below we show the Gantt chart and table of the veterinary management system time frame.

|  |  |  |  |
| --- | --- | --- | --- |
| **Tasks** | **Start Date** | **Completion** | **Adjusted Length** |
| Requirements gathering and analysis | 10/28/2023 | 11/19/2023 | 22 |
| System design and architecture | 11/20/2023 | 12/11/2023 | 21 |
| Development of high-level components | 12/27/2023 | 1/25/2024 | 29 |
| Development of low-level components | 1/26/2024 | 2/24/2024 | 29 |
| merging components | 2/25/2024 | 3/9/2024 | 13 |
| unit testing | 3/10/2024 | 3/20/2024 | 10 |
| System testing | 3/21/2024 | 3/31/2024 | 10 |
| User acceptance testing | 4/1/2024 | 4/4/2024 | 3 |
| Deployment | 4/5/2024 | 4/10/2024 | 5 |
| Training and support | 4/11/2024 | 4/20/2024 | 9 |

# **Agile Methodology for Veterinary Management System**

Agile methodology is a versatile and adaptive way of software development. It is well-suited for veterinary management systems because it provides requirement flexibility and early and regular feedback from stakeholders. Employing an Agile approach is used in the development of our Veterinary Management System to enable iterative progress and customer-centric adaptability. Sprints prioritize features such as easy appointment scheduling, assisted medicine accession, efficient animal ad placement, and individualized home visits. Continuous feedback loops promote dynamic improvements, ensuring a responsive, user-friendly platform for complete animal healthcare.

# **Conclusion**

Our veterinary management system is a complete software solution that may assist veterinarians in more efficiently and successfully managing their offices. Appointment scheduling, medical records management, inventory management, and finance management are among the services offered by the system. The system is also adaptable and constructable, allowing veterinarians to modify it to their individual requirements. Our veterinarian management system will be created utilizing an agile approach, which ensures that it is adaptive and versatile. The system is also precisely tested during the development phase to verify its excellent quality. We are dedicated to giving the finest possible service to our customers. We provide a wide range of help tools, such as online manuals, video tutorials, and live assistance. In addition, we are always striving to enhance the system and introduce new features. Finally, we feel that our veterinary management system is the ideal approach for veterinarians to give their patients the finest possible care.