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Online Pet Health Consulting System: Petzy

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Abstract: *This document describes the research and the description of the Online Pet Health Consulting System: Petzy which is made for the online health consultancy and treatment options which gives the facility of meeting the veterinary doctors online and prescribe the needed medicine. This document shows the structure and development of the project Petzy.*

Keywords: Veterinary, development, treatment, prescribe..

I. INTRODUCTION

Pet markets involve in great commercial possibilities, which boost thriving development of veterinary hospital businesses. The service tends to intensive competition and diversified channel environment. Information technology is integrated for developing the veterinary hospital cloud service platform. The veterinary hospital cloud service platform allows pet owners gaining the knowledge of pet diseases and healthcare. Moreover, pet owners can enquire and communicate with veterinarians through the platform.

II. LITERATURE SURVEY

2.1 Background History

The World Health Organization has indicated Taiwan as an aging society since 1993, which means people above 63 years old has occupied 7.1 % of the total population. The problems of slow economic growth, high cost of raising children, a rising rate of late marriage and non-marriage and low reproduction desire caused by high living pressure has resulted in a lot of DINK (double income, no kids), noble singes, or elder people that many people choose to breed pets instead of children and treat pets as their companions. However, the rapid growth of pet market therefore has effected the veterinary industry. According to the businesses related to veterinary hospitals, the annual production of 2000 veterinary hospitals in Taiwan had reached 9.6–12 billion NT dollars and the revenue of chained veterinary hospitals in 2004 was more than hundred millions. Although the expansion has slowed down in the past 4 years, there is still more than 10 % annual revenue growth, showing that the continued expansion of the veterinary market. Nevertheless, the constant increasement of veterinary hospitals has made veterinary market saturated. The hospital managers start to focus on cost outlay, service quality and information management in order to ensure the service quality.

Most traditional veterinary hospitals would encounter the problem of information integration. While managing a veterinary hospital, an organization mainly implement single hospital information management. When the business is expanded, the expansion of original system would appear inconsistently and asynchronous system information. Besides, the system planning and budget for veterinary hospitals are different from those for hospitals and human medicine. Hospitals for human medicine would leave flexibility for system expansion. In constrast veterinary hospitals would not due to smaller design systems. In this case, the implementation of cloud platform, which is more convenient and efficient for information integration and management, is more suitable for chain veterinary hospitals. The use of authority grading and reading/ writing management would solve the problem of data inconsistency.

The current types of animal management are distinct in the world. Most of them utilize the implantation of integrated circuits for connecting the identities of raised pets and owners. Nevertheless, the IC implantation is merely used in few animal varieties, such as common animals of dogs or cats. With new QR Code, invasive implantation is not applied to this system and animal varieties are not restricted; besides, the animal management is diverse and could effectively prevent owner abandonment.

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Current situations of veterinary hospitals have urged them to re-inspect the business models, enhance the service quality through Exquisiteness, Specialization and Technology to retain the customers and attract more new clients.

2.2 Related Work

Wu et al. [4] proposed to share software and hardware resources and information contents with cloud computing and RFID platform services and to reduce the time for information acquisition through cloud service platforms. Chiu et al. [6] pointed out the companion function of pets for modern people who presented positive thinking about the life by the perception of being needed while taking care of animals. They considered pets as excellent social lubricant for pet owners establishing interpersonal relationship with strangers Tsai et al. [7] mentioned the social function of breeding pets by starting a topic about pets which were therefore regarded as the mediator in interpersonal interactions. Lu [8] indicated the physiological, psychological and social benefits of breeding and interacting with pets, from which pet owners could increase the exercise frequency, reduce pressure, remove nervousness and anxiety, enhance the sense of security and responsibility, reduce loneliness and release the emotion. Cheng et al. [9] indicated that pets could benefit the physiological and psychological health of human beings, reduce hypertension, enhance the survival intention and will, improve anxiety and fear and promote interpersonal interactions; besides, pets, as a mediator of exchange and interaction, could enhance the opportunities and frequency to interact with others. Based on families, Huang et al. [10] pointed out that when a pet entered a human family and build the family relationship with the owner, the relationship would be closer as longer as it stays in the family. When the pet passed away and the owner appeared sorrow as losing a family member, the relationship between the pet and the owner was enhanced on an equal basis.

Zhang et al. [11] pointed out Cloud computing as the extension of Grid Computing, Distributed Computing and Parallel Computing that was not a new concept, but a progressing process. Amutharaj et al. [12] divided cloud computing into private cloud, public cloud and hybrid cloud and regarded cloud construction being established depended on business demands. Teng et al. [13] argued that traditional information infrastructure could no longer satisfy the information requirements of enterprises; instead, virtual information infrastructure could not only real-time provide high-computing virtual machine and store resources, but also reduce business costs and enhance the competitiveness. By integrating PaaSwithIaaS, the system load could be real-time monitored and the virtual machine could be automatically established or recycled. The software synchronization was then proceeded to largely enhance the system efficiency. Aiming at the factors in hospitals adopting cloud computing, Wang [14] pointed out the distinct technological capabilities of information personnel in large-scale and small-scale hospitals that the technological capabilities of information personnel and resource sufficiency would affect the development of cloud computing. Moreover ,Wu et al. [15] gathered more innovative business models between medical services and marketing so that the managers could precede various management analyses of profit therapy, risk and customer value on smart cloud platform systems through the information integration. Regarding to the applications of cloud technology and services. Yang et al. [16] studied the message transmission with smart mobile devices to deliver real-time message to network social platforms through the cloud concept of Platform as a Service (PaaS) and RSMB (Really Small Message Broker) released by IBM as well as to effectively deliver message to the users. Shih et al.[17] tried to assist people in collaboration and website screening through Social Bookmark developed with cloud computing. By combining the collaborative platform with present search engines for friends-making in communities, collaboration and knowledge share, people not only could get acquainted with other users with the same interests, but also could quickly acquire the required information through others' experiences. Chang et al. [18] transmitted the position information to a cloud platform through a hand-set device with Android platform for tourists or hikers knowing or being known the locations for rescuing and searching.

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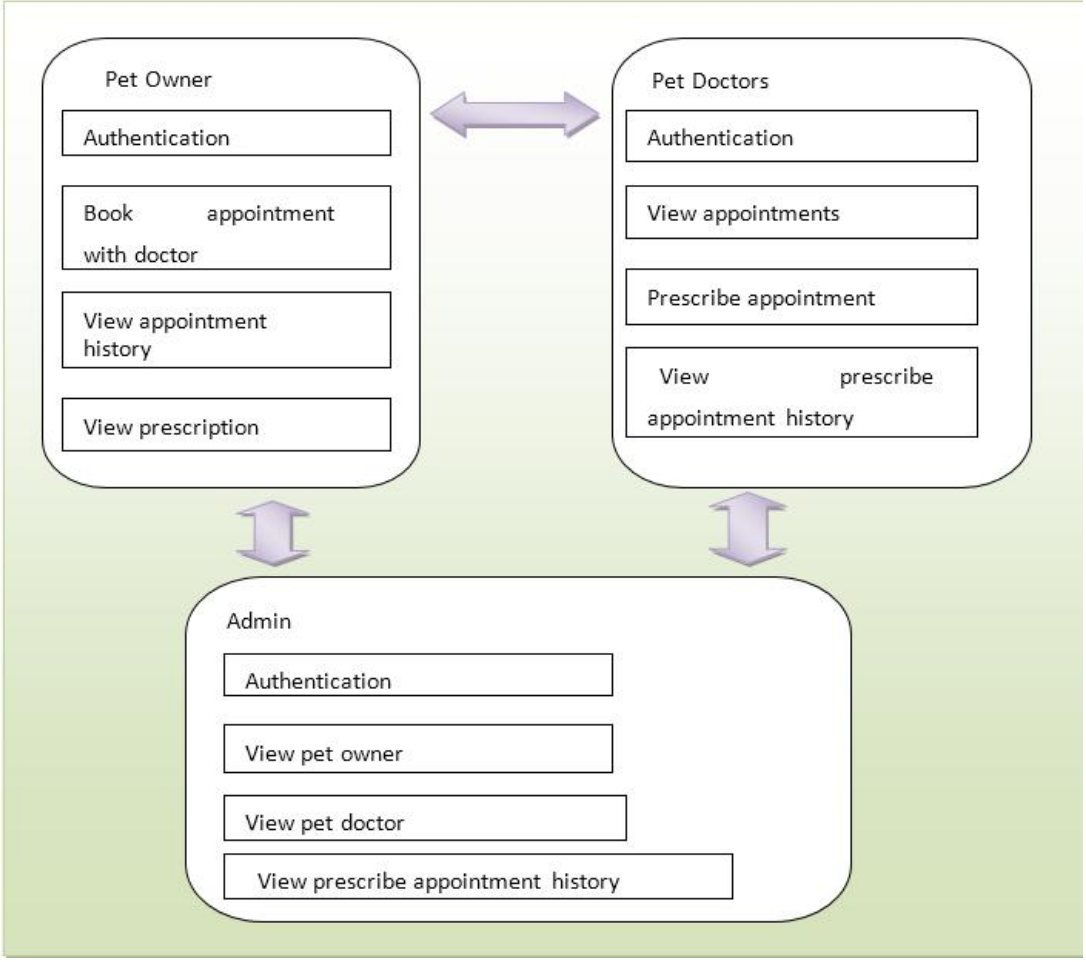
III. PROPOSED WORK

3.1 Proposed Concept:



The proposed system of this dissertation consists of three modules named as:

1. Pet Owner
2. Pet Doctor
3. Admin

The description of three modules of this dissertation is given below:

Pet Owner:

First of all Pet owners have to authenticate their self to the system. Then pet owners are allowed to view the doctors for their pets. They are allowed to view all the doctors who use this application. Also the pet owners are allowed to view the appointment history of their own pets.

Pet Doctors:

First of all Pet Doctors have to register and authenticate their self to the system. Then they are allowed to view all the appointments which are fixed with Pet Owners. They can give prescription to pet owners through this application. They are allowed to view the appointment history.

Admin

Admin are responsible for whole system management. Admin are allowed to view all the pet owners and doctors. Admin are also allowed to view the prescribed appointment history.

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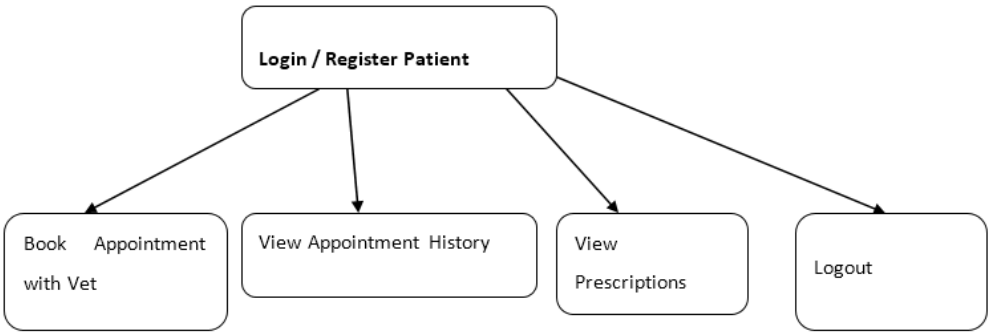
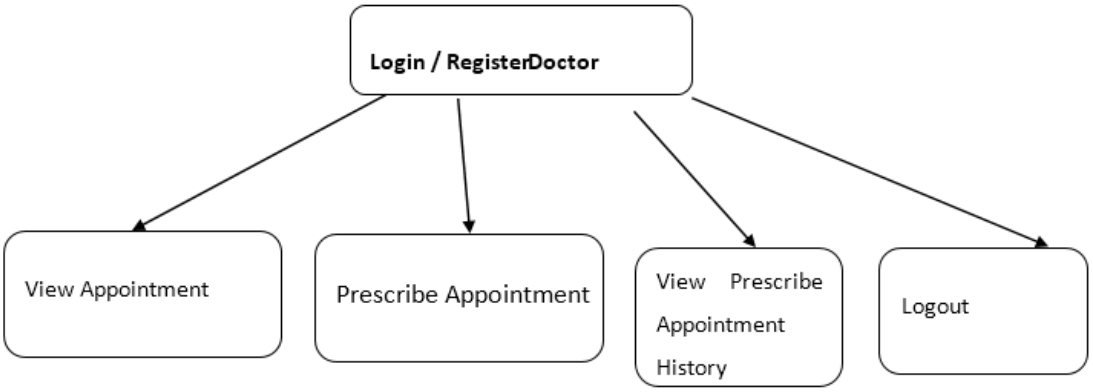
IV. WORKING OF PROPOSED SYSTEM

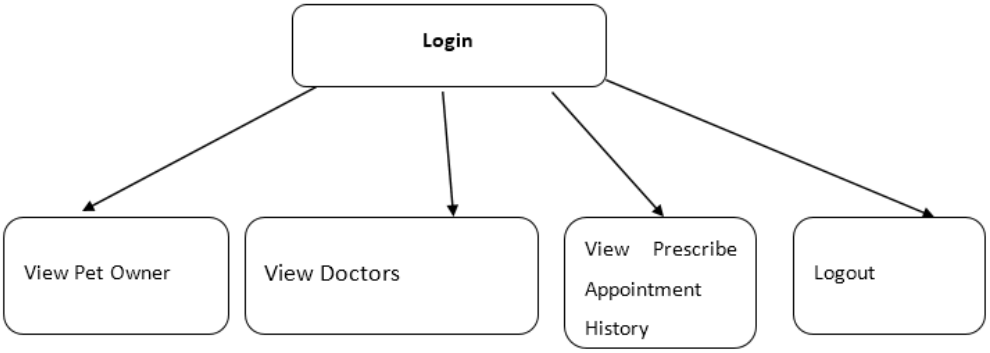
4.1 Data Flow Diagram:



Pet Owner DFD



Pet Doctor's DFD.



Admin's DFD

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V. ADVANTAGES AND DISADVANTAGES

Advantages

- Petzy is the online pet health consultancy system which gives more options to the user than the traditional methods.
- It saves a lot of time and energy and the other resources as well which helps the pet owners to maintain there pet healthy.
- Saves money and gives more treatment options in the cheaper price.

Disadvantages

We need to use third party application for the virtual interactions.

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VI. CONCLUSION

This study tends to assist veterinary hospitals to effectively improve the service quality between veterinary hospitals and pet owners. From the description of the veterinary hospital cloud service platform, it states the features and advantages of reducing information costs for enterprises, digitalizing pet medical records for veterinary hospitals, searching service, inspections without area restriction and individualized services from veterinary hospitals. However, the pet status cannot be ignored, but M-type society still appears on animals. Consequently, effective applications of cloud service platforms for certain animal values not only could reduce the waste of social resources, but also help various innocent lives. As the result, executing such plan could be welfare for the society.

FUTURE SCOPE

Currently using third party apps for the virtual meetings but in future looking for building a independent meeting platform and also looking to build a better payment method.

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