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PLAN A PET

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Abstract- *— In this study, a web server has been developed in order to carry out activities related to the animals in their adoption more effectively and easily. Animal adoption is the process whereby a person brings an animal, mostly cats and dogs, to their own care. These animals that are either lost or abandoned are taken by the animal control to be kept in animal shelters. Pets that are kept in the shelters for a long time are euthanized to reduce the number of overpopulation of unwanted animals. The inspiration of this project is a web-based adoption site for people to be more aware of stray animals waiting to be adopted. The website is accessible for users and administrators where users can register themselves into the system to view the list of animals waiting to be adopted along with each animal's records such as their (estimated) age, gender, and their description. The administrators are the main authority of the system and they are responsible for adding, editing, updating, and deleting information if necessary. The system is mainly divided into four modules: user handling module, pet handling module, pet adoption module and pet statistics module. When browsing pets, we chose a plug-in written in pure CSS to complete the waterfall stream layout for users to browse. It also provides the function of downloading the image to the local for administrators to download and use. When the user logs in, the user name of the user is determined according to the user name that is logged in, and the identity of the user is an ordinary member or an administrator, to identify the right and jump to the page corresponding to the permission.*

Keywords*- Front-end; JavaScript; Web Development; HTML5*

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I. INTRODUCTION

In recent years, the pace of people's life has accelerated and the pressure has increased, resulting in an increase in the number of abandoned pets. More and more displaced animals have not only affected the animals of nature, but also the lives of human beings. In addition, a large number of stray animals have also created a huge hidden danger to the city's surrounding environment, public transportation and public health security. At present, people's rescue of animals is still in the early stage, there are a series of problems such as restrictions on the location of rescue, remoteness of rescue places, high investment demand, update of relevant news, and difficulty in publishing. These situations directly or indirectly lead to the situation of "getting more and less" in the pets of animal rescue facilities. This situation makes the rescue team face a lot of serious problems such as economy and site. Secondly, when you have experienced a pet life, you will find that animal adoption has a more realistic and profound meaning. First of all, the adoption of animals raises the awareness of people to care for animals, thus reducing the occurrence of the magical behavior of the unscrupulous pets, not to mention the horrible human beings who enjoy the meat of animals. Pet adoption can also help children develop awareness of protecting animals and protecting nature. The children who grew up in today's times are filled with reinforced concrete and high-rise buildings. After adopting animals, they can once again pick up the love they have been indifferent since childhood, and we can help them to further appreciate the charm of nature and restore the childlike and innocence they should enjoy at this age. With the rapid development of computer technology, people are more and more fond of e-commerce, from the sale of daily necessities to the sale of houses, which can be traded through e-commerce. People are more and more accustomed to completing many personal events without leaving home. Therefore, relying on the advantages of the Internet, the adoption of animals, the development and design of a web-based pet adoption system is imminent.

II. NEEDS ANALYSIS

A. Business needs

Taking the adoption center as the main body, the business is actually the business of the adoption center. The batch entry of pet information records and the series of deletion, modification and investigation of pet information are all implemented by the administrator. Therefore, the business requirements of the pet adoption system mainly include: 1 operation of pet information, such as searching for pet information, making changes to pet information, adding pet information, and deleting pet information; 2, adopting pet behavior, such as members browsing on the page Pet information, fill in the adoption application form, the administrator

approval application form, the administrator enters the adoption success record, etc.; 3 statistical data behavior, such as collecting and recording the pet information used by the system to date; 4 pairs of members' operations, Such as new member registration, member information changes, administrators to find member information.

B. Customer needs

The customer is actually all users who use and browse the system except the administrator. The needs of these customers are easier than those of the administrator. The main needs are to inquire, browse pet information, fill out the adoption approval form, apply for adoption, and modify personal information.

C. Functional requirements

The function of this design is realized according to its scope of action and user. For the main use of pet adoption, the functional requirements analysis is shown in Figure 1.

D. Other needs

Maintainability: The system is equipped with certain anti-interference and fault-tolerant skills. In the case of nonhardware and communication obstacles, the system can maintain the state, ensure that the operation is error-free, and is equipped with a large number of information reminders to help users solve the problem.

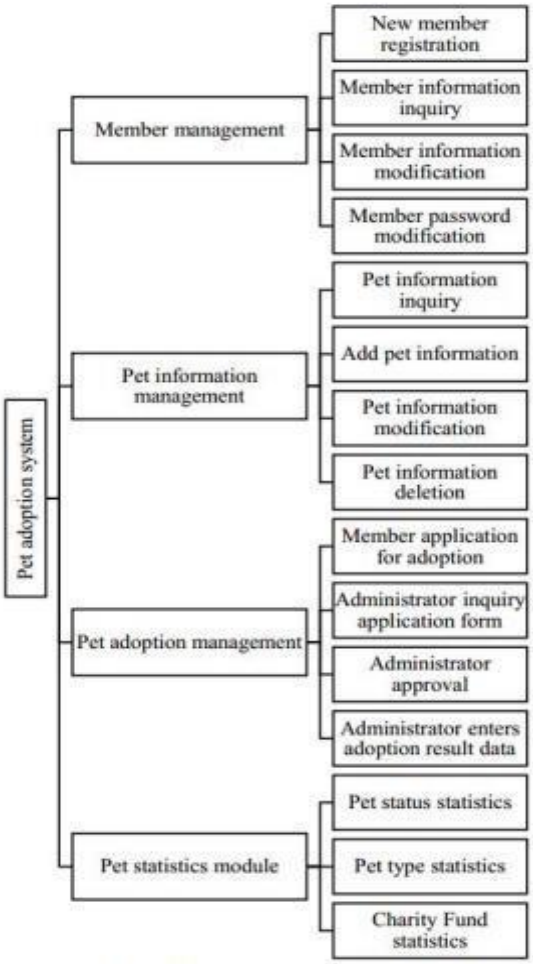

Figure 1 Functional requirements analysis

III. SUMMARY DESIGN

A. Functional description

The modules mainly include: member management, pet information management, pet adoption management, and pet statistics module.

main operators of the system, and thus, system members The non-member use case diagram is shown in Figure 2.

C. Process description

The system is divided into 4 large modules, and each large module includes different functions. According to the purpose and meaning of each function, the flow of each function can be clarified through a process flow chart. This section first describes the login module, each Function of the user management module, each function of the pet information processing, each function of the pet adoption module, and a flow chart of each function of the pet statistics module.

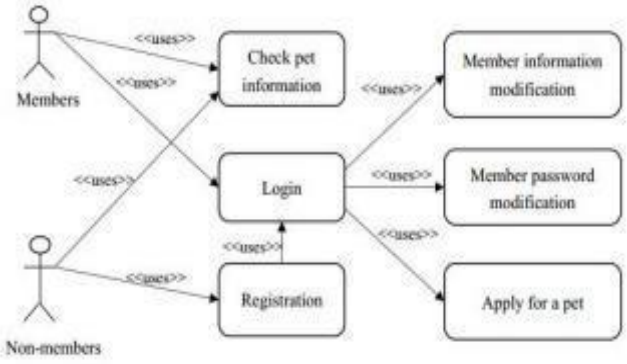

Figure 2 Member and non-member use cases

IV. SYSTEM ARCHITECTURE

A. Framework Development

In order to develop this website, Bootstrap is used as the front end framework. Bootstraps is open source collection of tools for creating website and web applications. The aims of Bootstraps is to ease the development of dynamic websites and web application. Moreover, it also contains HTML and CSS based templates for forms, buttons, navigation, typography and other interface component. Not only that, it also contain JavaScript extension. Bootstraps is easy to use as it compatible with the latest version of Chrome, Firefox, Internet Explorer (IE), Opera and Safari browser.

B. System Architecture for Animal Adoption platform

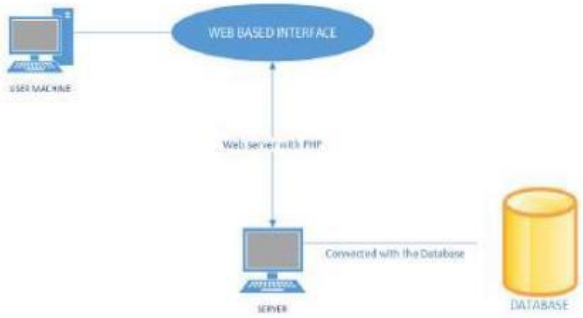

Figure 3 System Architecture for Animal Adoption Platform

V. SUMMARY DESIGN

B. Use case description

1) Use case diagram design

According to the actual situation, the system is mainly for 3 groups of people: non-members (only have the function of querying pet information and browsing pages), members and administrators, among which members and administrators are the

The system architecture for animal adoption platform consist of several mechanism, that is the user machine itself, the interface of the page that is connected to the server and the application that is embedded in the server whilst connected to the database itself. The user uses their own machine to access into the website. The website itself is connected to a server. The server has function to connect the website to the database. However the database is only accessible for the administrator which is the author. To make less traffic, the server is separated with its database. This also to increase security on the database which can prevent from malicious attacks.

C. Programming/Scripting Language

HTML	Used to define structure and front end of patmenow page
CSS	To furnish the front-end design and background
JavaScript	Used for web functionality
PHP	Server scripting language for back-end development

Figure 4 List of Programming/Scripting Language

VI. CONCLUSION

In this study, the system was developed as a fully functional website. The application can be modified according to requirements for animal shelters. The application can be customized with user name and password. With the authorization of the local administration for the website, access to the records of the animal shelter units can be customized by entering the user name and password in the same way. People who want to have an animal or get information about it always want to find answers easily from the internet environment. The fact that animal lovers can see the adopt billboard without going to a animal shelter helps them. Access via smartphones to the internet is one of their first choices. It makes their daily life easier for users to see the animal shelter, get routes, and find the nearest animal shelter in their call for help. With the use of the application developed within the scope of this study, animal shelters application policies can be strengthened. Social approaches constitute the infrastructure of laws. The Law on Animal Protection will remain inadequate unless social approaches are strengthened. Topics such as perspective the stray animals in society and perpetration againist to animals should be revised. It should be aimed to prevent animal purchases by strengthening social approaches. Local administrations should adopt policy the adoption instead of purchasing for animals. Afterwards, monitoring and controlling should become one of the application policies of local governments.

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