THE STRATEGY DEVELOPMENT OF GENERAL EDUCATION WEBSITE MANAGEMENT

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ABSTRACT

The purpose of this research study is to develop website management for general education courses to be efficient and to study the satisfaction of students, professors and personnel towards the general education website. The methodology is divided into two segments; 1) to develop website management for general education courses, 2) to study the satisfaction of students, professors and personnel towards the website. The statistics used for data analysis are means and standard deviation.

According to the study, it can be found that 1) using the technique of general education website management by adapting Virtual Machine (VM) technology with 1,835 students who attended general education in second semester of 2021, the satisfaction result from the users is in excellent level ($\bar{X}$ = 4.30). 2) Using the technique of general education website management by adapting Load Balancer technology with 767 summer-semester students who attended general education in 2021, the satisfaction result from the users is in the best level ($\bar{X}$ = 4.77). In conclusion, using the technique of general education website management by adapting Load Balancer technology is considered very efficient in general and it can satisfy the users better than Virtual Machine (VM) technology.

Keywords: Website, General Education, Virtual Machine, Load Balance

INTRODUCTION

The Office of General Education and Innovative Electronic Learning has the main mission for learning in general education subjects under the bachelor degree. To research and develop learning innovations by using electronic media and academic services according to the needs office and communities' requirements. This is consisted with the university's policy that focuses on enabling students and staff to apply technology and information effectively. Research development and learning management innovation research department has been assigned a mission to develop learning technology and information in order to provide the learning technology and information for students, teachers and staff at Suan Sunandha Rajabhat University. In addition to manage the website general education courses which is the main media used in learning management. Presently, the Office of General Education and Innovative

Electronic Learning has developed interactive media. Therefore, department has developed guidelines for managing websites for general education courses. In order to facilitate the learning of general education subjects and support the needs of service recipients, including students, professors, and personnel efficiently.

METHODOLOGY

Population is Suan Sunandha Rajabhat University students registered for general education courses**.**

Sample is 1,835 and 767 Suan Sunandha Rajabhat University students, people, 2nd semester and summer semester, 2021, respectively by using Taro Yamane's 6%.

Questionnaire is research tool used for collection data. The format of the questionnaire is a 5-level rating scale by Likert's method. The scores assigned to the questions on the rating scale are as follows:

The highest is equal to 5 points, meaning the opinions are at the highest level.

Very equal to 4 points means having opinions at a high level.

Moderate, equal to 3 points means having a moderate level of opinion.

Low, equal to 2 points means having a low level of opinion.

The least equal to 1 point means having the opinions at the lowest level.

Using the following criteria for translation average opinion level

4.51 - 5.00 Most suitable

3.51 - 4.50 very suitable

2.51 - 3.50 Moderately suitable

1.51 - 2.50 Less suitable

1.0 - 1.50 Least Optimal

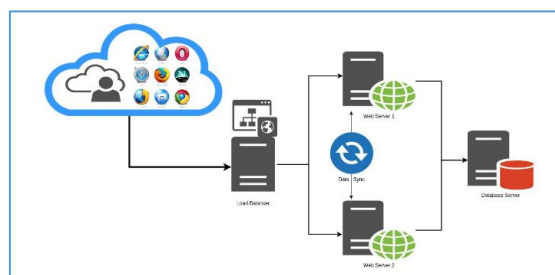Virtual Machine (VM) and Load Balancer are applied in this research method.

Fig. 1 Load Balancer

Data analysis, the statistics are used such as percentage, mean and standard deviation.

LITERATURE REVIEW

Theory consists of 5 main parts which are (Jintawee Klaisang, 2011) which are Learning theory, Systems theory, Communication theory, ID Model and Distance Education. The composition of a major educational website consists of 3 basic elements. The details are as follows; courseware, communication and, assessment and evaluation. The basic principles of educational web design include highlighting important text, Emphasis, balance, alignment/alignment, repetition, color selection and image selection.

RESULTS

Table 1 Satisfaction with using virtual machine technology

Items	Satisfaction		
	Mean	**S.D.**	**Level**
1. The information technology system is efficient, modern and reliable.	4.34	0.88	High
2. Information technology systems are stable, safe to access and use at all times.	4.26	0.96	High
3. The information in the information technology system is up-to-date.	4.34	0.89	High
4. Ease of use of information technology systems.	4.30	0.89	High
5. Utilization of information technology systems	4.34	0.88	High
6. The information technology system service is accurate and fast.	4.26	0.93	High
7. Clarity and promptness in giving advice and answering questions about the use of information technology systems.	4.28	0.97	High
Overall satisfaction	**4.30**		

The results of the analysis of satisfaction with information technology systems, instructional management for general education subjects of The Office of General Education and Innovative Electronic Learning all 7 aspects is found that the overall satisfaction is at high level with average 4.30. The top 3 most satisfied are information technology systems efficiency, modern and reliable. The information in the information technology system is up-to-date and utilization of information technology systems, followed by ease of use of information technology systems and clarity and speed in giving advice and answering questions about the use of information technology systems which average is 4.34, 4.30 and 4.28, respectively.

Table 2 Satisfaction with Load Balancer technology

Items	Satisfaction		
	Mean	**S.D.**	**Level**
1. The information technology system is efficient, modern and reliable.	4.84	0.37	Highest
2. Information technology systems are stable, safe to access and use at all times.	4.81	0.40	Highest
3. The information in the information technology system is up-to-date.	4.72	0.46	Highest
4. Ease of use of information technology systems.	4.73	0.45	Highest
5. Utilization of information technology systems	4.76	0.44	Highest
6. The information technology system service is accurate and fast.	4.78	0.42	Highest
7. Clarity and promptness in giving advice and answering questions about the use of information technology systems.	4.75	0.44	Highest
Overall satisfaction	**4.77**		

The result of Satisfaction with Load Balancer technology is found that the overall satisfaction is at highest with average 4.77. The highest satisfaction level is the information technology system is efficient, modern and reliable, average 4.84. Followed by The information technology system is stable and safe to access and use at all times, average 4.81, the information technology system service is accurate and fast, average 4.78, utilization of information technology systems with average 4.76, clarity and promptness in giving advice and answering questions about the use of information technology systems, average 4.75. Moreover, ease of use of information technology systems, average 4.73 and the information in the information technology system is up-to-date with average 4.72.

DISCUSSION

The result is found that students are satisfied the use Virtual Machine (VM) technology and Load Balancer technology with average 4.30, 4.77, respectively. Therefore, Load balancers can meet demand more efficiently than virtual machine (VM) techniques. In additional, website technology development of general education courses is very necessary and important. The website technology is the main platform that used to manage the learning general education, online classes, exam, project submissions, project inspection and personnel used for managing various activities. Therefore, the efficiency of access is very important to meet the needs and quality management system.

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