

APPLICATION OF COGNITIVE ERGONOMICS IN THE
DEVELOPMENT OF INTERACTIVE DIGITAL
DIRECTORY SYSTEM OF DORMITORIES IN
CAVITE STATE UNIVERSITY

THESIS

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CAVITE STATE UNIVERSITY**

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ABSTRACT

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Dormitory plays an important role in the college life of students, most of the students wanted to reside in the dormitory to experience convenient living during the whole school year. Unfortunately, some of the students experience difficulties in finding a suitable dormitory due to unreliable sources. CvSU system is continuously growing but it has no available website to promote the dormitories around it. Developing a website is a great help to lessen or even eliminate the difficulties of the students. In order to develop an interactive digital directory system of dormitories for CvSU system, this study aimed to:

- 1) determine the problems encountered by the students in selecting the desired dormitory;
- 2) identify the features included in the interactive digital directory;
- 3) determine the potential benefits of the interactive digital directory for the students of CvSU systems that resides in dormitories;
- 4) design and develop a digital directory system of dormitories for CvSU system;
- 5) test and evaluated the usability of the developed digital directory system for dormitories, and;
- 6) provide possible recommendations that will further improve the interactive digital directory system of dormitories for CvSU system.

The developmental research design was used to study and evaluate the development of interactive digital directory system and in order to achieve the objectives of the study, the researchers followed the Define, Measure, Analyze, Design, and Verify (DMADV) method as its research methodology. The primary sources of data for the study were from

dormitories/apartments around CvSU campuses and other possible users of the website. The participants of the study were the students who reside in dormitories/apartments around CvSU campuses as well as the landlord/landlady. Slovin's Formula and the stratified random sampling were used to determine the number of participants of the study. The total number of participants for the evaluation of the website were 297 students of CvSU.

Based on the results of the study, online searching was not the first option of the respondents in finding a suitable dormitory. The respondents were using the conventional way in finding dormitories and were usually performing 4 steps that were currently done by the students, specifically: (1) ask information about dormitories from their family, friends, website, and others; (2) find the location of the dormitories using signboards, asking people, online maps and others; (3) decide if the dormitory is suitable for the student needs; (4) if satisfied, the student will reside in it. The problems encountered in finding dormitories were that there is no available dormitory website in CvSU system, not concise information, poor user interface, and irrelevant web design.

After identifying the current process and the problems encountered by the students in finding dormitories, the researchers developed a website. In terms of the usability of the website and the ergonomic quality, it achieved the effectiveness, and efficiency of the website, and it yields a level of excellence from the respondents. This also achieves the satisfaction level of the users.

For further improvement of dormitory website in CvSU system, the researchers recommend to: (1) consider converting the system into a mobile application; (2) provide additional features like reservations and payment through the website that might help more

in managing the system.; (3) provide all the other dormitories that are not included; and (4) focus on different areas to which the system might be useful too.

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INTRODUCTION

A dormitory is a building on a school campus that has rooms where students can live (Merriam-Webster, 2019). Dormitory is originally a sleeping chamber, especially a room containing many beds where monks or students sleep, in American usage a residence hall at a university or college (Wilton, 2019).

Dormitories play an important role in the lives of the students that are studying in a university. It provides and ensures the safety of the students while they are away from home. Dormitories in all Cavite State University are beneficial in helping students that are residing at distant locations. It helps provide convenience to those that will expend time going to school every day and back to their homes.