ABSTRACT

EDRIAN JOEPEN A. CADUNGO, ALDRIEN A. LANGBAYAN, ROE JOSEPT L. MEJIA, KIMBERLY M. QUIAMCO, JESSA G. SUCALO, KENNETH T. TAMANGEN, February 2023. *Benguet State University (BSU) Student Health Consultation Record Management System (SHCRMS).* Benguet State University. La Trinidad, Benguet.

Adviser: Ma. Teresa T. Cachero,

Students of Benguet State University is rapidly growing in numbers and a student needs to have a medical record in order to be fully admitted in the University. Technology is also developing and these days it makes work a lot easier. Previous researchers stated that hospital clinicians spent more time on documentation and clerical works reducing time with patient interaction and other important works. With the current manual process of BSU medical clinic in adding student health consultation record, and the growing number of students, it would take up a lot of the staffs’ time with giving medical attention to students. The Benguet State University - Student Health Consultation Record Management System (BSU - SHCRMS) was then developed to improve the current system and solve the problems in the consultation process especially in locating student’s consultation records and having no backup. Six staff from the University Medical clinic were given questionnaires to determine difficulties with the current system and based on the results, BSU-SHCRMS was developed to address these difficulties. The questionnaires were also used to determine both functional and nonfunctional requirements for the system. However, the study only covers the medical records of the students and the university staffs and outside community records were not included in the study. The BSU-SHCRMS was developed and maintained using the Rapid Application Development (RAD) model which prioritizes rapid prototyping and feedback over lengthy development and testing cycles. The participation of the staff made iterations in the system possible during the demonstration which is a part of the prototype cycle of the said methodology. This strategy lets developers easily generate several software versions and update them without starting a new development cycle. The researchers also used test case which includes the unit testing, integration testing and user interface testing to determine the credibility of the system functions when it comes to different fields. Black-box testing was also used by the researchers to test the software functionalities to make BSU-SCHRMS better.

After months of developing the system and multiple iteration, the respondents conducted a usability analysis on the BSU-SHCRMS using PSSUQ (Post-Study System Usability Questionnaire), and the results painted a complete picture of the system's usefulness and advantages. All of the results gathered were treated using mean and weighted mean. Overall, the results show that BSU-SHCRMS is a useful tool with an average mean of 2.45. In terms of usability, BSU-SHCRMS is straightforward and simple to use, making data entry, searching, and patient consultation less time-consuming and more efficient for users.