



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

MEDICAL INFORMATION MANAGEMENT SYSTEM OF PRMSU
SANTA CRUZ

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A Thesis

In partial Fulfillment of the Requirements
for the degree of Bachelor of Science in Computer Science
College of Communication and Information Technology
President Ramon Magsaysay State University

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Republic of the Philippines
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Santa Cruz, Zambales



College of Communication and Information Technology

APPROVAL SHEET

This, study entitled **Medical Information Management System of PRMSU Santa Cruz** prepared and submitted by **Anjelika D. Ferrer, Christian Jay M. Estaño, Gilbert M. Galimba, Jim Gabriel C. Dela Rama and Shaina M. Maniago** in partial fulfilment of the requirements for the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** are hereby recommended for oral examination.


ELEMAR R. LINGA
Adviser

Approved by the Panel of the Oral Examiners on July 11, 2022 with a grade of _____.

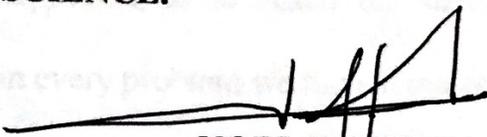

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Executive Summary

Medical Information Management System is a web-based program that allows authorized users to automate the medical information management, "Medical Information Management System of PRMSU Santa Cruz" is the title of the proposed system. Users will be able to find and obtain essential student and employee's medical data. Admin/Nurse can prepare a summary report of Medical background together with personal information, immunization information and health record.

The proposed project will replace the manual process of gathering medical information and vaccination information and will now use a web-based application that can easily gather and manage data in a fast and secure way. Administrator/Nurse can easily provide an updated records of the students and employees through the use of this system.

This approach can be highly effective in gathering data as well as assisting students and employees to provide medical information, medical history and vaccination information. The data of the respondents can only be viewed, managed, and printed by the authorized nurse/admin.

The respondents' perception towards the software quality of Medical Information Management System in terms of ISO/IEC 20501 metrics: (a) Functional suitability, obtained 3.49 average weighted mean from students and 3.73 average weighted mean from faculty/staff and interpreted both as Excellent; (b) performance efficiency, obtained 3.52 average weighted mean from students and 3.60 average weighted mean from faculty/staff and interpreted both as Excellent; (c) compatibility, obtained 3.53 average weighted mean from students and 3.67 average weighted mean from faculty/staff and interpreted both as



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Excellent; (d) usability, obtained 3.53 average weighted mean from students and 3.59 average weighted mean from faculty/staff and interpreted both as Excellent; (e) reliability, obtained 3.46 average weighted mean from students and 3.62 average weighted mean from faculty/staff and interpreted both as Excellent; (f) security, obtained 3.56 average weighted mean from students and 3.65 average weighted mean from faculty/staff and interpreted both as Excellent; (g) maintainability, obtained 3.46 average weighted mean from students and 3.62 average weighted mean from faculty/staff and interpreted both as Excellent; and (h) portability, obtained 3.51 average weighted mean from students and 3.60 average weighted mean from faculty/staff and interpreted both as Excellent;

The respondents' perception towards the level of acceptability of Medical Information Management System of PRMSU Santa Cruz in terms: (a) Content, obtained 3.48 average weighted mean from students and 3.76 average weighted mean from faculty/staff and interpreted as Highly Acceptable; (b) Performance, obtained 3.62 average weighted mean from students and 3.89 average weighted mean from faculty/staff and interpreted as Highly Acceptable; (c) Timeliness, obtained 3.48 average weighted mean from students and 3.82 average weighted mean from faculty/staff and interpreted as Highly Acceptable; (d) Security, obtained 3.57 average weighted mean from students and 3.80 average weighted mean from faculty/staff and interpreted as Highly Acceptable.