LIBRARY MANAGEMENT SYSTEM IN MICRO ASIA COLLEGE OF SCIENCE & TECHNOLOGY STA.CRUZ CAMPUS

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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
Sta. Cruz, Zambales

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Republic of the Philippines
PRESIDENT RAMON MAGSAYSAY STATE UNIVERSITY
College of Communication and Information Technology
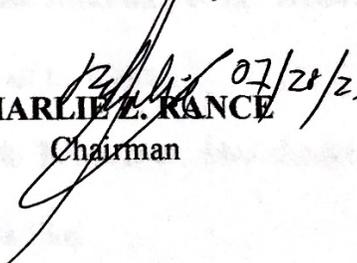Sta. Cruz, Zambales
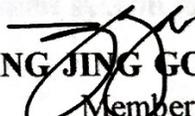
APPROVAL SHEET

This, study entitled **"Library Management System in Micro Asia College of Science and Technology Sta. Cruz Campus"** prepared and submitted by VLADIMIR V. BALINDO, RIZALYN M. CORPUZ, JASMIN M. MAS, LORELIE M. MORALDE, JERON A. MORAÑA, in partial fulfilment of the requirements for the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** is hereby recommended for oral examination.
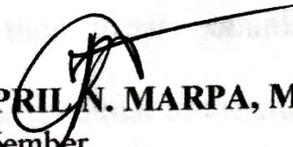
MC JULIUS D. IMPERIAL
Adviser

Approved by the Panel of the Oral Examiners on July 2023 with a grade of _____.

07/28/23

CHARLIE L. RANCE
Chairman
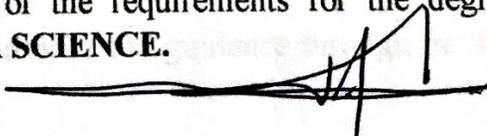
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Accepted and approved in partial fulfilment of the requirements for the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE.**

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Date Signed

NOEL B. MERIN
Campus Director

EXECUTIVE SUMMARY

"Library Management System in Micro Asia College of Science and Technology" is located in Barangay Poblacion South, Sta. Cruz, Zambales. The proposed project will replace the existing process of making reservation thru third party applications and will now use a web-based application that can easily gather and manage data in a fast and secure way. Administrator can easily track a borrower of book by the students and teacher made by the client through the use of this system.

The study made used of descriptive method of research. The specific descriptive research technique used were survey and content analysis.

The respondent's perception towards the software quality of Library Management System in Micro Asia College of Science and Technology Sta. Cruz Campus in terms of ISO/IEC 20501 metrics: (a) functional suitability, obtained an average weighted mean 3.49 and interpreted as Excellent; (b) performance efficiency, obtained an average weighted mean 3.43 and interpreted as Excellent; (c) compatibility, obtained an average weighted mean 3.59 and interpreted as Excellent; (d) usability, obtained an average weighted mean 3.30 and interpreted as Excellent; (e) reliability, obtained an average weighted mean 3.46 and interpreted as Excellent; (f) maintability, obtained an average weighted mean 3.43 and interpreted as Excellent; and (g) portability, obtained an average weighted mean 3.32 and interpreted as Excellent.

The respondent's perception towards the acceptability of Library Management System in Micro Asia College of Science and Technology Sta. Cruz Campus in terms of ISO/IEC 20501 metrics: (a) functionality, obtained an average weighted mean 3.37 and interpreted as Highly Acceptable, and (b) performance, obtained an average weighted

mean 3.43 and interpreted as Highly Acceptable.

The respondent's perception towards the readiness of Library Management System in Micro Asia College of Science and Technology Sta. Cruz Campus in terms of ISO/IEC 20501 metrics: (a) facility, obtained an average weighted mean 3.43 and interpreted as Very Ready, and (b) technical personnel, obtained an average weighted mean 3.40 and interpreted as Very Ready.

Based on the findings and conclusions of the research of the Library Management System Micro Asia College of Science and Technology Sta. Cruz Campus, the following recommendations are suggested: (1) Offer comprehensive training programs for administrators and teachers to enhance their understanding and proficiency in using the Library Management System. This will ensure that they can maximize the system's features and functionalities for effective library management; (2) Establish a helpdesk or support system where students can seek assistance or report any issues they encounter while using the Library Management System. Timely support and guidance will enhance their experience and ensure a smooth operation of the system; and (3) Collaborate with administrators and IT professionals to optimize the Library Management System based on the specific requirements and workflows of the library. This may involve customizing modules, configuring search algorithms, or integrating additional features to enhance the system's functionality and usability.