Development of a Secure Online Scholarship Application Services at President
Ramon Magsaysay State University – Sta. Cruz Campus,
Zambales, Philippines

Bagorio, Jenalyn M.

Bulatao, Wella I.

Igno, Symon Dave S.

Labajo, Yashica M.

Teodoro, Mara R.

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

April 8, 2024

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

APPROVAL SHEET

This, study entitled **"DEVELOPMENT OF A SECURE ONLINE SCHOLARSHIP APPLICATION SERVICES AT PRESIDENT RAMON MAGSAYSAY STATE UNIVERSITY STA. CRUZ CAMPUS, ZAMBALES, PHILIPPINES"** A.Y. 2023-2024 prepared and submitted by **JENALYN M. BAGORIO, WELLA I. BULATAO, SYMON DAVE S. IGNO, YASHICA M. LABAJO,** and **MARA R. TEODORO** in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** are hereby recommended for oral examination.
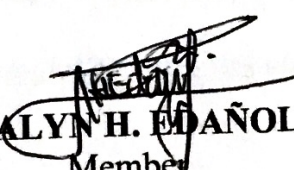
JING JING GONGORA
Adviser

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

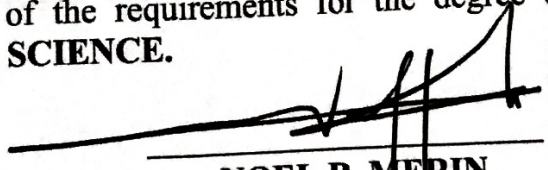**JOHN APRIL N. MARPA, MSCS**
Chairman

CHARLIE Z. RANCE
Member

JANNIE M. ESCOBAR
Member

ANALYN H. EDAÑOL
Member

Accepted and approved in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE.**

NOEL B. MERIN
Campus Director

_____
Date Signed

EXECUTIVE SUMMARY

The study Development of a Secure Online Scholarship Application Services at PRMSU-Sta. Cruz Campus aimed to improve a safe online application for scholarships to make it easier for students to apply by doing away with the need for walk-ins and the usage of paper-based applications.

This study made use of a descriptive method of research. The specific descriptive research technique used was a survey and analysis, to completely show an evaluation of the Development of a Secure Online Scholarship Application Services at PRMSU-Sta. Cruz Campus.

The respondent's perception towards the software quality of Development of a Secure Online Scholarship Application Services at PRMSU-Sta. Cruz Campus, Zambales, Philippines in terms of ISO/IEC 25010 metrics: (a) functional suitability, obtained an average weighted mean 3.90 and interpreted as "Excellent"; (b) performance efficiency, obtained an average weighted mean 3.8 and interpreted as "Excellent"; (c) compatibility, obtained an average weighted mean 3.86 (d) usability; obtained an average weighted mean 3.8 and interpreted as "Excellent"; (e) reliability, obtained an average weighted mean 3.81 and interpreted as "Excellent"; (f) security, obtained an average weighted mean 3.87 and interpreted as "Excellent"; (g) maintainability, obtained an average weighted mean 3.86 and interpreted as "Excellent"; and (h) portability, obtained an average weighted mean 3.83 and interpreted as "Excellent".

The respondent perception towards the level of acceptability of Development of a Secure Online Scholarship Application Services at PRMSU-Sta. Cruz Campus, Zambales in terms (a) Functionality, obtained an average weighted mean 3.87 and interpreted as "Highly Acceptable" and (b) Performance, obtained an average weighted

mean 3.88 and interpreted as "Highly Acceptable".

The respondent's perception towards the level of readiness of Development of a Secure Online Scholarship Application Services at PRMSU-Sta. Cruz Campus, Zambales in terms (a) facility, obtained an average weighted mean 3.90 and interpreted as "Very Ready" and (b) technical personnel, obtained an average weighted mean 3.88 and interpreted as "Very Ready".

The recommendations for Development of a Secure Online Scholarship Application Services at President Ramon Magsaysay State University - Sta. Cruz Campus, Zambales, Philippines, includes optimizing the database schema for improved performance, keeping the system updated with the latest software patches for reliability, implementing strong authentication measures for security, ensuring accessibility across various devices, and utilizing cloud-based hosting solutions for scalability and high availability, thereby enabling the system to continuously adapt and effectively meet evolving user requirements.