



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

ONLINE ADMISSION SYSTEM: IMPROVED ACCESSIBILITY

APPROVAL SHEET

Elo Faith M. Flores

Sean J. Encarnacion

Miguel S. Mercado III

Sage Christian D. Opeña

Eric C. Sisgon

A Capstone Project

In partial fulfillment of the Requirements

for the degree of Bachelor of Science in Information Technology

College of Communication and Information Technology

President Ramon Magsaysay State University

Iba, Zambales

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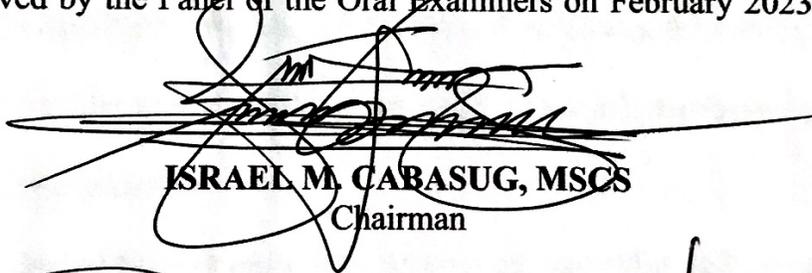
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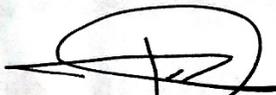
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This study, entitled **“Online Admission System: Improved Accessibility,”** prepared and submitted by Elo Faith M. Flores, Sean J. Encarnacion, Miguel S. Mercado III, Sage Christian D. Opeña, and Eric C. Sisgon, in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY,** is recommended for an oral examination.


DARYL JOHN C. RAGADIO, MSCS
Adviser

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


ISRAEL M. CABASUG, MSCS
Chairman


DARWIN M. MORAÑA
Member


JASON S. ARTATES, MSCS
Member

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

09 AUG 2023

Date Signed


MENCHIE A. DELA CRUZ, Ph. D.
Dean, CCIT

EXECUTIVE SUMMARY

Websites should be designed to work on different devices, such as computers and mobile phones. A web design discipline called responsive web design ensured accessibility for all users. In this regard, some users had trouble using the Student Information and Accounting System (SIAS) of President Ramon Magsaysay-Iba Campus (PRMSU-Iba) on mobile phones, especially during university admission at the peak of the COVID-19 pandemic. Thus, the researchers improved the accessibility of the Online Admission System (OAS) on the SIAS website so that more people could use it easily on different devices.

This capstone project focused on implementing responsive web design to the OAS of PRMSU-Iba to make it more accessible to mobile devices. The research explored theories, concepts, and applications of responsive web design, such as flexbox design, grid layout, and media queries. It tested the built system on different mobile devices. The study used the International Organization for Standardization/International Electrotechnical Commission (ISO/IEC) 25010:2011 metric as the quality standard to ensure the system's accessibility to various devices.

As for data gathering, it employed questionnaires and interview methods. The questionnaire evaluated the software quality of the proposed web-based app regarding functional suitability, performance efficiency, compatibility, usability, reliability, security, maintainability, and portability. It assessed the acceptability of the web-based software to the respondents. The interview method was used to gather data on the convenience of the proposed system for the staff and get feedback from staff and students of PRMSU to



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improve the app's functionality and design during development. There were 360 total respondents for this research, with 340 (94.44%) being PRMSU-Iba first-year students and 20 (5.56%) being PRMSU-Iba personnel.

Based on the evaluation of PRMSU-Iba first-year students, the improved OAS had "Very Good" software quality. The system was "Acceptable" and it was "Ready" for implementation. On the evaluation of PRMSU personnel, the improved OAS had "Very Good" software quality. The system was "Acceptable" and it was "Ready" for implementation.

From these findings, the study recommended the following: improve OAS features related to admission tasks and accomplishing admission objectives, minimize the processing time of the system, increase the maximum limits of system parameters without affecting overall quality, enhance security features and programs to prevent errors, improve the backup and restore feature to reduce data loss in case of system failures, make the system easily customizable for institutional use, reduce network connectivity requirements, add additional features and processes essential to the general admission process like admission for foreign and post-graduate applicants, provide additional training for admission personnel on how to use the OAS, implementation of the improved OAS and integration into existing systems, and continuously update the OAS to align with current software development and admission standards.