ENHANCING OPPORTUNITIES: SYSTEM DEVELOPMENT FOR PUBLIC EMPLOYMENT SERVICE IN STA. CRUZ, ZAMBALES, PHILIPPINES

Alba, Reynaldo D.

Hebron, Renalyn M.

Morados, Gerald C.

Pulido, Renzo M.

Edillor, Ricky Jr. M.

A Thesis

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For the degree of Bachelor of Science in Computer Science

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COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

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

APPROVAL SHEET

This, study entitled **"ENHANCING OPPORTUNITIES: SYSTEM DEVELOPMENT FOR PUBLIC EMPLOYMENT SERVICE IN STA. CRUZ, ZAMBALES, PHILIPPINES"** A.Y. 2023-2024 prepared and submitted by **REYNALDO D. ALBA JR., RENALYN M. HEBRON, RICKY M. EDILLOR JR., GERALD C. MORADOS,** and **RENZO M. PULIDO** in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** are hereby recommended for oral examination.

JOHN APRIL N. MARPA MSCS
Adviser

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

CHARLIE Z. RANCE
Chairman

JING JING GONGORA
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.**

Date Signed

NOEL B. MERIN
Campus Director

EXECUTIVE SUMMARY

The Enhancing Opportunities: System Development for Public Employment Service in Sta. Cruz, Zambales, Philippines, developed by the researchers to improve job notifications and community information sharing in Sta. Cruz, Zambales. The system streamlines the process for Public Employment Service Office administrators, allowing them to efficiently share job vacancies. Job seekers can easily access employment opportunities using smartphones and the internet, register, browse listings, submit applications, and track updates. This innovative approach not only increases accessibility to job opportunities but also facilitates smoother communication between employers and potential applicants.

This study utilized a descriptive research design, with a survey and content analysis as the specific techniques to evaluate the Enhancing Opportunities: System Development for Public Employment Service in Sta. Cruz, Zambales, Philippines in terms of platform's usability, functionality, and overall satisfaction, providing valuable insights into its influence and effectiveness.

The respondent's perception towards the software quality of Enhancing Opportunities: System Development for Public Employment Service in Sta. Cruz, Zambales, Philippines in terms of ISO/IEC 25010 metrics: (a) Functional suitability, obtained an average weighted mean 3.75 and interpreted as Excellent; (b) Performance Efficiency, obtained an average weighted mean 3.75 and interpreted as Excellent; (c) Compatibility, obtained an average weighted mean 3.57 and interpreted as Excellent; (d) Usability, obtained an average weighted mean 3.53 and interpreted as Excellent; (e) Reliability, obtained an average weighted mean 3.43 and interpreted as Excellent; (f)

Security, obtained an average weighted mean 3.53 and interpreted as Excellent; (g) Maintainability, obtained an average weighted mean 3.65 and interpreted as Excellent; (h) Portability, obtained an average weighted mean 3.67 and interpreted as Excellent.

The respondent's perception towards the level of acceptability of Enhancing Opportunities: System Development for Public Employment Service in Sta. Cruz, Zambales, Philippines in terms: (a) Functionality, obtained an average weighted mean 3.64 and interpreted as Highly Acceptable; and (b) Performance, obtained an average weighted mean 3.39 and interpreted as Highly Acceptable.

The respondent's perception towards the level of readiness of Enhancing Opportunities: System Development for Public Employment Service in Sta. Cruz, Zambales, Philippines in terms: (a) Facility, obtained an average weighted mean 3.45 and interpreted as Very Ready; and (b) Technical Personnel, obtained an average weighted mean 2.96 and interpreted as Ready.

The following recommendations are proposed, the researchers offer the following recommendations: (1) To ensure a system's compatibility with various devices and platforms, regular updates and the development of modules or plugins can be implemented. This will enable users to use the system seamlessly across various settings and devices. (2) To improve usability, the system should be streamlined for easy learning and usage, resulting in a more productive user experience. (3) Regular updates, backup plans, and a comprehensive disaster recovery strategy can enhance user satisfaction and trust in the system's performance. (4) Strict access controls and minimizing computer attacks are essential for security. (5) Modul ar components allow for easy adjustments and quick recovery procedures, reducing delays and improving overall resilience. (6) Installing and uninstalling necessary software, such as browser, should be seamless across different

settings and replace other software with similar functions. (7) Comprehensive testing and assessment are crucial for ensuring the system's functionality and accuracy. (8) Enhancing usability and providing real-time information are essential for enhancing the system's efficiency and user satisfaction. (9) Prioritizing the purchase of computer units and securing a reliable internet connection can help users access and utilize the system effectively. Allocating appropriate rooms and storage areas for equipment and maintenance activities will also streamline workflows, enhancing user satisfaction and productivity.