



COLLEGE OF COMMUNICATION AND INFORMATION TECHNOLOGY

HARNESSING BUSINESS OPERATION THROUGH FARM EQUIPMENT
RESERVATION SYSTEM

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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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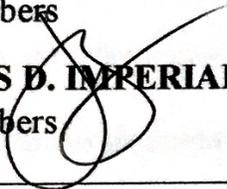
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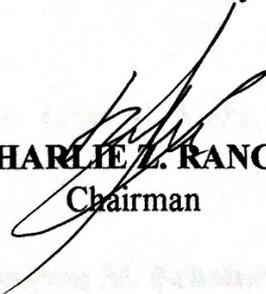
This, study entitled **“HARNESSING BUSINESS OPERATION THROUGH FARM EQUIPMENT RESERVATION SYSTEM”** prepared and submitted by Alex M. Egsao, Jennylou E. Maestre, Michael Paul E. Manila, Angelica B. Pabigayan, Vince M. Relorcasa in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** are hereby recommended for oral examination.

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Approved by the Panel of the Oral Examiners on May 19, 2023 with a grade of _____.


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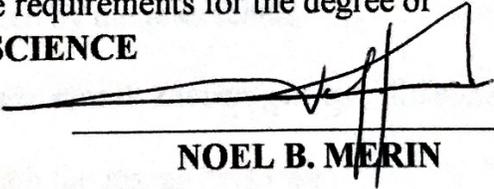

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EXECUTIVE SUMMARY

The Harnessing Business Operation Through Farm Equipment Reservation System is a system that enables customers to reserve a Farm Equipment. The project aimed to solve problems encounter using Manual process of Reservation of Farm Equipment by designing a web-based system that will enable the customers to make a reservation. 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 reservation made by the customer using this system.

The study used for descriptive method of research. The specific descriptive research technique used were survey and content analysis. The respondents' perception towards the Software Quality of Harnessing Business Operation Through Farm Equipment Reservation System using the ISO/IEC 25010 metrics: (a) functional suitability, obtained 3.95 average weighted mean from the respondents and interpreted as Excellent; (b) performance efficiency, obtained 3.84 average weighted mean from the respondent and interpreted as Excellent; (c) compatibility, obtained 3.95 average weighted mean from the respondents and interpreted as Excellent; (d) usability, obtained 3.93 average weighted mean from the respondents and interpreted as Excellent; (e) Reliability, obtained 3.43 average weighted mean from the respondents and interpreted as Excellent; (f) security, obtained 3.91 average weighted mean from the respondents and interpreted as Excellent; (g) maintainability, obtained 3.43 average weighted mean from the respondents and interpreted as Excellent; and (h) portability, obtained 3.95 average weighted mean from the respondents and interpreted as Excellent. In summary, the evaluation of software quality for the Farm



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Equipment Reservation System highlights its excellent portability from both the admin and customer perspectives. The system has considered highly adaptable to different hardware, software, and operational environments, ensuring effective and efficient usage. Additionally, the system provided successful software installations and uninstallations, allowing users to save time during room reservations.

The respondents' perception towards the level of acceptability of Harnessing Business operation Through Farm Equipment Reservation System using the ISO/IEC 25010 metrics: (a) functionality, obtained 3.95 average weighted mean from the respondent and interpreted as Highly Acceptable; and (b) performance, obtained 3.45 average weighted mean from the respondent and interpreted as Highly Acceptable. The overall weighted mean for the level of acceptability is 3.7, indicating a highly acceptable rating. This means that the overall implementation of the Harnessing Business Operation Through Farm Equipment Reservation System is highly acceptable by both admins and customers. The system demonstrated a good level of functionality and performance, meeting the requirements and expectations of its users.

The respondents' perception towards the Evaluation of readiness of Harnessing Business operation Through Farm Equipment Reservation System using the ISO/IEC 25010 metrics: (a) facility, obtained 3.94 average weighted mean from the respondent and interpreted as Very Ready; and (b) technical personnel, obtained 3.93 average weighted mean from the respondent and interpreted as Very Ready. Overall, the implementation of the Harnessing Business Operation Through Farm Equipment Reservation System is evaluated as Very Ready (VR) in terms of readiness. The overall weighted mean is 3.94, reflecting the high level of preparedness across both Facility and Technical Personnel



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aspect.

The full implementation of the Harnessing Business Operation Through Farm Equipment Reservation System for Business Operation Through Farm Equipment is recommended. Creation of marketing materials to promote the application can boost user recognition.

Bank account was recommended as additional payment options. Develop a mobile application for the reservation system, making it more accessible to farmers who prefer to use their smartphones or tablets for reservation and updates. The app should have user-friendly interface and offer all the essential functionalities. Send automated reminders to farmer a day or two before their reserved sate to ensure they don't forget their reservation return the equipment on time. Enhance the equipment listing with high-quality images, videos, and detailed specifications. This will give farmers a better understanding of the equipment features and suitability for their specific needs.