

**COMPUTERIZATION OF THE SALES AND INVENTORY  
MANAGEMENT SYSTEM OF FRENZEL II HARDWARE**

**A Thesis  
Presented to the  
Faculty of College of Communication and Information Technology  
Ramon Magsaysay Technological University  
Iba Campus, Iba, Zambales**

**In Partial Fulfillment  
Of the Requirements for the Degree  
Bachelor of Science in Information Technology**

**by**

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### APPROVAL SHEET


The study entitled, **COMPUTERIZATION OF THE SALES AND INVENTORY MANAGEMENT SYSTEM OF FRENZEL HARDWARE**, prepared and submitted by **MARJO F. FORTIN, JOSEPH L. MACAHILAS JR. and JOHN PATRICK T. MUNDIA** in partial fulfillment of the requirements for the degree **BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**, is hereby recommended for oral examination.

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

March 14, 2011  
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## ABSTRACT

The study focused in the development, testing, and getting the perception of the sample respondents about the Computerized Sales and Inventory Management System or CSIMS for Frenzel II Hardware, Iba, Zambales.

The study sought to answer: (1.) The profile of the respondents in terms of sex, age, and occupation. (2.) The respondent's perception on the current manual sales and inventory management system and the proposed Computerized Sales and Inventory Management System (CSIMS) for Frenzel II Hardware in terms of the following System Quality Metrics such as accuracy, security, correctness, efficiency, reliability, simplicity, execution efficiency, human resources, performance, usability, maintainability, operability, portability, traceability, and overall perception. (3.) The significant difference on the perceptions when respondents are grouped according to profile variables. (4.) The significant relationship between the perceptions on the current manual system and the proposed CSIMS for Frenzel II Hardware. (5.) The implementation of the proposed CSIMS in addressing the problems of Frenzel II Hardware in its sales and inventory management. (6.) The capability of Frenzel II Hardware in implementing the proposed CSIMS based on its available resources.

The researchers employed series of interviews, observations, the use of questionnaires, and pure research in gathering the much needed information. Statistical measurements used were frequency distribution, percentage, weighted mean, standard deviation, variance, correlation, analysis of variance (ANOVA) and t-test. Correlation analysis between perceptions on the current manual and the proposed CSIMS was performed. The t-test is also used to establish the significant difference on respondents'



perceptions between the current system and the proposed CSIMS in terms of the specified System Quality Metrics.

The findings are: (1.) A typical respondent is a female, 25.3 years old, and a student. (2.) The respondents perceived the current manual sales and inventory management system of Frenzel II Hardware in terms of the System Quality Metrics as Moderately Efficient with an overall mean of 2.89. The respondents perceived the proposed computerized sales and inventory management system for Frenzel II Hardware in terms of the System Quality Metrics as Much Efficient with an overall mean of 4.13. Thus, the respondents perceived the proposed computerized SIMS better than the current SIMS used by Frenzel II Hardware. (3.) There is significant difference in the respondent's perception on the current manual SIMS in terms of age and occupation. For sex, none. There is no significant difference in the respondent's perception on the proposed computerized SIMS in terms of profile variables. Perceptions were the same. (4.) There is significant relationship on the perceptions between the current manual SIMS and the proposed computerized SIMS for Frenzel II Hardware. Further computation of the sample coefficient of determination  $r^2$  implies a 17.98% linear relationship between the two variables. (5.) The implementation of the proposed CSIMS at Frenzel II Hardware will definitely address the problems encountered by the establishment. (6.) Frenzel II Hardware is more than capable in implementing the proposed computerizes sales and inventory management system with its available resources.

In view of the findings, the following are highly recommended: (1.) The proposed computerized sales and inventory management system or CSIMS be immediately implemented to better improve the services of Frenzel II Hardware to its clientele. (2.)

The proposed CSIMS is worth investing due to its numerous benefits. (3.) The proposed CSIMS is vital in preventing the future losses and averting bankruptcy for Frenzel II Hardware. (4.) The maintenance and continuous development of the system be done to help it adapt to the constantly changing trends of information technology. (5.) The proposed CSIMS has to be observed by other business owners with the same nature of operation so as to avail the benefits it provides.