RICE PROCUREMENT AND DISTRIBUTION MANAGEMENT SYSTEM

An Undergraduate Thesis

Presented to the Faculty of the

College of Information and Communications Technology

West Visayas State University

La Paz, Iloilo City

In Partial Fulfillment

of the Requirements for the Degree

Bachelor of Science in Information Systems

by

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June 2022Approval Sheet

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# Acknowledgments

The researchers would like to express their deepest appreciation to the following persons, who in one way or another have made this work possible:

First and foremost, to our Almighty God and Savior for guiding and providing the researchers knowledge, determination, strength, patience, and wisdom in pursuing this to finish;

Prof. Shem Durst Elijah B. Sandig, adviser, for all the advice, encouragement, corrections, motivations, guidance, patience, time that he shared, and continuous support to the researchers;

Dr. Ma. Beth S. Concepcion, CICT Dean, for allotting her time and giving advice, motivations, encouragement, and continuous support to the researchers;

Dr. Regin A. Cabacas, for giving advice and sharing his expertise and skills in helping the researcher;

Prof. Mark Joseph Solidarios, for sharing his expertise and time;

Mrs. Josephine Venus D. Cartillo of NFA, Acting Branch Manager and her team, for accommodating the researcher for an interview and for sharing her time and expertise in providing information to come up with this study;

Farmers who were interviewed, for the accommodation and for sharing information and insights to the researchers to come up with this study;

Mr. and Mrs. Baes, Mrs. Inawasan and Mr. and Mrs. Soberano for extending their precious time, support, patience, love and understanding to the researcher as they pursued the study;

The CICT Thesis members, for the insights, recommendations, critiques, knowledge, expertise, and values imparted to the researcher;

The CICT Faculty and staff, for the support and wisdom;

West Visayas State University, for shaping and for betterment to be a good role model and citizen;

And most of all, the Almighty God for giving the researchers’ the source of their physical, emotional, mental, and spiritual strength to be able to accomplish this study. To God be the greatest glory!

The accomplishment of this study would not be possible without your help. To those who contributed to the researchers, a heartfelt gratitude.

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June 2022

Baes, Karlene Joyce A.; Inawasan, Rouen I.; Soberano, Jay Czhelle B.; “Rice Procurement and Distribution Management System”. Unpublished Undergraduate Thesis, Bachelor of Science in Information Systems, West Visayas State University, Iloilo City, Philippines, June 2022].

# Abstract

Food security is one of the major goals of all countries ensuring that its citizens have enough food supply for their consumption as part of the United Nations Sustainable Development Goals. But this is a great challenge to achieve with the current situation of the rice industry of the Philippines. Some key players in the Rice Value Chain are experiencing different problems with how the current system works such as the National Food Authority (NFA). The implementation of Rice Tariffication Law also shifted the bargaining power of traders over the farmers and removed some of NFA’s scope of activities. Currently, the NFA is having problems in managing their data, collecting other necessary data during their procurement and distribution processes, consolidating their data from the lowest to higher levels of the organization, and monitoring the prices of rice in the market. The researchers came up with a study entitled, “Rice Procurement and Distribution Management System” a web-based system that has a marketplace platform that connects farmers, traders, and the NFA’s procurement operation. A distribution scheduling and inventory management system can lessen the workloads of the NFA to gather data and manage information. The system also consolidates information on the prices of rice in the market for monitoring. The target users of the system are rice farmers, traders, and the NFA in the province of Iloilo. The system was evaluated in terms of its functional suitability, performance efficiency, compatibility, usability, reliability, security, maintainability, and portability in performing market and NFA operations by intended users, field experts, and system developers.