

West Visayas State University
COLLEGE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
La Paz, Iloilo City

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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Approval Sheet

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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,

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“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.