



KAINAN SA TABING DAGAT (KSTD) MANAGEMENT SYSTEM

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A Capstone Project

In Partial Fulfillment of the Requirements

for the Degree of Bachelor of Science in Information Technology

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APPROVAL SHEET

This capstone project entitled **“Kainan sa Tabing Dagat (KSTD) Management System”** prepared and submitted by **Garcia, Alexis Allen I., Lazaro, Vanjo C., Morillo, Arval L. and Pastor, John Dominic V.** in partial fulfilment of the requirements for the degree of **Bachelor of Science in Information Technology** are hereby recommended for oral examination.

MR. DARWIN M. MORAÑA
Adviser

Approved by the Panel of the Oral Examiners on November 28, 2023 with a grade of _____.

ENGR. MELOJEAN C. MARAVE, MSIT
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Accepted and approved in partial fulfilment of the requirements for the degree of **Bachelor of Science in Information Technology.**

2 JUL 2024

Date Signed

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EXECUTIVE SUMMARY

This study was made to develop the Kainan Sa Tabing Dagat (KSTD) Management System. It sought to identify the evaluation of Customer, Staff and IT Experts Respondents on the software quality using ISO/IEC 25010: 2011 in terms of: Functional Suitability, Performance Efficiency, Compatibility, Usability, Reliability, Security, Maintainability, and Portability. It also sought to identify the level of acceptability of the system to the respondents in terms of Functionality and Performance. It also sought to identify the level of readiness of the company to the respondents in terms of Information System Facility and Technical Personnel.

The study's goal was to streamline processes by reducing complexities linked to conventional methods, aiming for enhanced user-friendliness. Employing the descriptive research method, the development of the Kainan Sa Tabing Dagat (KSTD) Management System adhered to the Waterfall Methodology. Data collection involved utilizing questionnaires and interviews, while statistical analysis relied on frequency, percentage distribution, and weighted mean calculations.

The respondents of the study comprised the customers of Kainan Sa Tabing Dagat (KSTD), information technology experts from both government and non-government agencies, and the staff of Kainan Sa Tabing Dagat (KSTD). These diverse groups provided comprehensive insights into the system's usability and effectiveness from multiple perspectives. The inclusion of varied respondents ensured a thorough evaluation of the system's impact and functionality across different user groups.

The system was found "Excellent" in software quality in terms of ISO/IEC 25010:2011 metrics as evaluated by Customers, IT experts and KSTD staff. The computed



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grand mean of Software Quality as evaluated by the respondents was 3.60 for the customer, 3.53 for IT experts and 3.60 for KSTD staff.

The system was found "Highly Accepted" in Level of Acceptability as evaluated by Customers, IT experts and KSTD staff. The computed grand mean of level of readiness as evaluated by the respondents was 3.67 for the customer, 3.52 for IT experts and 3.47 for KSTD staff.

The system was found "Very Ready" in Level of Readiness as evaluated by Customers, IT experts and KSTD staff. The computed grand mean of level of acceptability as evaluated by the respondents was 3.65 for the customer, 3.49 for IT experts and 3.53 for KSTD staff.

The researchers then recommended the full implementation of G-cash in the restaurant necessitates the establishment of a G-cash business account in Kainan Sa Tabing Dagat (KSTD) to promote the system that can boost user recognition and sales. Enhancing of Inventory Report. Enhance the software quality, the level of acceptability and level of readiness of Kainan Sa Tabing Dagat (KSTD) management system. Facilitate the widespread availability of the service/product across all municipalities within the province of Zambales. Incorporate a customer service chat bot feature into the system to enhance user support and engagement.