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

LAND TAX AND LAND MAPPING INFORMATION SYSTEM WITH DECISION-RULE-BASED LAND CLASSIFICATION

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

Rence Ahne L. Barigues

Ma. Romela Q. Prandas

Mary Hope E. Tabunlupa

Adrian James G. Tomas

Mike Joseph A. Velez

June 2024

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Approval Sheet

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Abstract

This study presents a Land Tax and Land Mapping Information System with Decision-rule-based Land Classification which aims to establish a web-based transaction platform between the Municipal Assessor's office and land owners. Specifically, the main objective is to perform efficient transactions, enhance convenience for landowners, and provide the functionality to determine whether the existing land is classified as high, mid, or low value. This system presents a unique method of categorizing land using techniques based on decision rules, guaranteeing precision and uniformity in assessing the land's worth. In addition, the platform enables efficient interactions with landowners. The system also integrates mapping functionalities, helping assessors categorize land values by factors like buildings, water access, and land type. This visual representation aids in identifying

properties with distinct valuation features. Landowners can also access their property and tax information, improving communication and transparency. All things considered, the approach guarantees more accurate evaluations, streamlines assessments, and enhances communication. The system was evaluated as highly effective (4.56 out of 5) based on efficiency, accessibility, and dependability.

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