MASTER OF INFORMATION AND COMMUNICATION STUDIES

Capstone Project

UNIVERSITY OF THE PHILIPPINES
OPEN UNIVERSITY

MASTER OF INFORMATION SYSTEMS

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CANDIJAY FISHERY AND AGRICULTURAL HOUSEHOLD REGISTRATION MANAGEMENT AND DECISION SUPPORT SYSTEM (C-FARMS)

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ABSTRACT

This project aims to develop the Candijay Fishery and Agricultural household Registration and Management System (C-FARMS), a decision support system to assist the Municipal Agriculture Office (MAO) in managing its programs for registered farming and fisheries households in the municipality of Candijay. The system focuses on record-keeping and program beneficiary selection to aid the MAO in fulfilling its mandate to promote agriculture and fisheries development among constituents. The project followed the Rapid Application Development model and resulted in a three-tiered web application using ReactJS, NodeJS, GraphQL API, and PostgreSQL. The Technology Acceptance Model (TAM) was used to validate and verify the system, including administering online surveys and conducting end-to-end testing with Cypress. Results showed that users found the system to be acceptable and all test cases passed. The system is ready for deployment to the MAO, but maintenance plans should be implemented to ensure continued effectiveness.