UNIVERSITI TEKNOLOGI MARA

PELADANG VEGETABLE CROP MANAGEMENT SYSTEM

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ABSTRACT

PELADANG needs an effective system to manage its operations of vegetable farming and to increase coordination with the wholesalers. At present, the manual system of crop management leads to limitedly crop visibility, cumbersome communication channels and unorganized invoice and payment process. The proposed project consist of a web-based PELADANG Vegetable Crop Management System that manage the handling of data in its internal farms data, automate the documentation of sales, and streamlines communication with wholesalers for greater efficiency. The system gives the PELADANG staff (internal farmers) the ability of registering and updating the crop availability and the wholesalers can browse and order produce. The staff also create invoices, check payments and make monthly reports to evaluate the purchase trends. The Adapted Waterfall Model was used during the development of the system, including the following elements planning, analysis, design, implementation, testing, and documentation. It also integrates User-Centered Design (UCD) to make sure that the interface can be visible and easy to operate both by staff and wholesalers, including those with low technical background. The results of the usability tests, detailed in Chapter 4, demonstrated improved task efficiency, more effective communication with wholesalers, and a reduction in the use of informal processes, such as messengers and paper-based invoicing. This system enhances operational transparency, strengthens the farmer-to-buyer process, and supports data-driven decision-making within PELADANG. Future enhancements could include mobile support, payment gateway integration, and expanded reporting features to further assist in digital transformation and sustainability in internal farm management.

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