A Fertilizer Sales Website for Truong Que Company

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***Abstract*—This undergraduate thesis develops a fertilizer sales website for Truong Que Company. The author analyzes customer and administrator requirements, models the product and order workflows, and implements the application with the Laravel PHP framework. The report describes the database structure, product categories, search and filtering, shopping cart, order placement, and administrator pages for maintaining products and processing orders. It includes use-case, sequence, and activity diagrams as well as interface screenshots. The reported result is a website prototype that presents fertilizer products to customers and supports order receipt and review by staff. The source does not provide a controlled usability study, verified payment processing, or quantitative performance measures. Its discussion emphasizes the practical value of organizing product and order information in one system and notes that the scope is limited to the demonstrated functions. The outcome is a documented e-commerce implementation for the named company, with real-world adoption and operational effectiveness requiring later evaluation.**

***Index Terms*—fertilizer sales, e-commerce, Laravel, product catalog, order management**

I. Introduction

Truong Que Company needs an online channel to present fertilizer products and receive customer orders. The thesis treats product discovery, order creation, and administration as a connected workflow. It sets out to build a Laravel-based website in which customers can browse and filter products and staff can maintain catalog data and follow orders. The source is an implementation report, so its claims about business benefit should be read in the context of a demonstrated prototype [1]. Earlier ICTU student work on related designs is included here for context [3], [4], [5], [6], [7], [8], [9], [10]. These contextual works were selected for this English summary; they are not asserted to appear in the original thesis bibliography.

II. Methods

The author reviews the current sales workflow, identifies customer and administrator actors, and creates use-case, activity, and sequence diagrams. The implementation uses Laravel and a relational database following a Model-View-Controller structure. The source describes tables for products, categories, customers, orders, and order details. Interface design covers customer catalog pages, product filtering, a cart and order flow, plus administrator pages for editing products, categories, and order status. The report provides screenshots as implementation evidence [1].

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III. Results

The thesis shows a customer-facing product catalog with search, filtering, product details, cart operations, and an order-detail view. Administrator screens support product creation and maintenance, category management, order review, and printing an order. The author reports that the website can receive and process orders in the demonstrated setting. The evidence consists mainly of design diagrams and interface views; it does not include traffic measurements, field sales data, or a controlled customer evaluation [1].

IV. Discussion

A Laravel application can centralize product and order information for the company's described workflow. The source documents the implemented interface but provides limited evidence about deployment at commercial scale. It discusses the importance of maintaining accurate product records and of making the customer workflow easy to use. Without measured results, claims about faster sales or better customer satisfaction remain expectations rather than demonstrated outcomes. Additional testing would be required to assess reliability, security, and use by actual staff and customers [1].

V. Conclusion

The thesis documents a fertilizer sales website prototype for Truong Que Company, covering catalog display, cart and ordering functions, and administration of products and orders. The reported diagrams and screenshots support the existence of those application flows. They do not establish measured operational improvement or production readiness. The work provides a foundation for later deployment, testing, and refinement against real customer and staff needs [1].

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