Extending WooCommerce for a Real Estate Website

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***Abstract*—This thesis studies an extension of WooCommerce for a real estate website. The author reviews WordPress, WooCommerce, and interface libraries, then models tasks for adding and editing property listings and configuring search forms. Use-case, activity, and sequence diagrams describe administrative and browsing flows. The implementation chapter provides screens for real estate pages, property entry, and configurable search. The report states that the author completed the project while acknowledging time limits and areas where processing is not optimized. It does not provide a comparative usability study, a performance benchmark, or evidence of commercial deployment. The documented contribution is a prototype that adapts an e-commerce plugin to property presentation and search, with the quality of real-world operation remaining to be assessed.**

***Index Terms*—WooCommerce, WordPress, real estate, property search, plugin development**

I. Introduction

A property website needs structured listings and search controls so visitors can discover relevant real estate. The thesis investigates whether existing WooCommerce components can be extended for that domain. It introduces WordPress, plugin concepts, and selected interface technologies. The main goal is to implement listing management and an adjustable property search experience. The source describes a student software project rather than a deployed brokerage service [1]. Earlier ICTU student work on related designs is included here for context [2], [3]. Published technical books provide background for the methods discussed in this summary [4]. Related published studies provide context for the subject and methods [5], [6]. These contextual works were selected for this English summary; they are not asserted to appear in the original thesis bibliography.

II. Methods

The author specifies administrator tasks for adding and editing property data and configuring search-form fields. Use-case, activity, and sequence diagrams represent the workflows. The implementation extends WooCommerce within WordPress and uses interface components discussed in the thesis, including Semantic UI and jQuery. Screens show property pages, an add-property page, and search-form creation and editing. The report does not define a controlled comparison with another real estate platform [1].

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III. Results

The manuscript presents multiple property listing views, administrative screens for adding real estate, and interfaces for creating and changing search forms. These screenshots support that the planned plugin extension and page layouts were implemented in a prototype. The author reports learning to combine existing components and acknowledges unfinished or unoptimized handling. No data are given for user adoption, listing accuracy, query speed, or sales outcomes [1].

IV. Discussion

Reusing WooCommerce can shorten the implementation of familiar content-management flows, while a property-specific search form addresses a different information need from standard product browsing. The thesis provides design and screen evidence but limited tests. Its conclusion explicitly cites limited time and experience and notes that some processing could be improved. A later evaluation would need realistic listing data, user testing, and maintenance checks before making claims about operational effectiveness [1].

V. Conclusion

The thesis documents a WooCommerce extension for real estate listings and search forms. Diagrams and screenshots show the planned administrative and visitor workflows. The author considers the project complete within its capstone scope but identifies implementation limitations. The source does not establish commercial deployment or measured superiority over existing tools. The result is a documented prototype that can be refined and tested with actual property data and users [1].

References

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