Automated Testing of the Cam Van E-Commerce Website with Katalon Studio

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***Abstract*—This thesis applies Katalon Studio to automated tests of the Cam Van e-commerce website. The report reviews software-testing concepts, compares manual and automated workflows, and describes test scenarios for selected website functions. The practical chapter includes Katalon test cases and execution material for actions such as login, adding customers, and product search. The author reports progress in designing tests but explicitly states that not all website functions were covered and that errors occurred during the work. The source does not establish a complete coverage percentage, defect-detection rate, or quantified time saving. Its contribution is a documented educational test suite and evidence of selected test execution. More systematic cases and full functional coverage remain future work.**

***Index Terms*—Katalon Studio, automated testing, e-commerce, Cam Van, test cases**

I. Introduction

An e-commerce site needs reliable behavior across accounts, products, and orders. The thesis uses the Cam Van website as a case for learning and applying automated tests with Katalon Studio. It introduces software-testing levels, test methods, and the tool capabilities. The objective is to prepare and execute representative scenarios. The author does not claim that this limited project provides complete certification of the website [1]. Earlier ICTU student work on related designs is included here for context [2], [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 studies Katalon Studio, identifies selected website functions, writes test scenarios, and records their execution. The examples include login, customer records, and product search. The report also compares steps in manual and automated testing. Screenshots and descriptions document the selected cases. The methodology does not include a complete coverage matrix, a repeated timing benchmark, or an independent defect-classification review [1].

III. Results

The thesis presents selected Katalon cases and execution screens for the Cam Van website. Its conclusion describes improved understanding of web testing and more structured test-script design. The author acknowledges errors during testing and incomplete coverage of website functions. The source provides no validated overall pass rate or measured efficiency gain. The result is a partial automated-testing exercise whose scope is visible in the documented scenarios [1].

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IV. Discussion

Automated scripts can repeat selected user actions, but their value depends on useful assertions, stable test data, and coverage of meaningful branches. The source explicitly states that many functions remain untested. Successful execution of a few cases cannot establish that the e-commerce site is free of faults. Later work should expand scenarios, record expected outcomes and defect fixes, and compare repeated runs under controlled conditions [1].

V. Conclusion

The thesis demonstrates Katalon Studio on selected Cam Van e-commerce functions and records the author learning and testing process. It identifies incomplete coverage and development errors. The evidence supports the test cases shown in the manuscript, not a comprehensive quality assessment. An expanded suite with clearer assertions, traceable requirements, and retesting would be needed for dependable operational assurance of the website [1].

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