Selenium-Based Testing of the Maybi Website

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***Abstract*—This undergraduate thesis investigates Selenium-based automated testing of the Maybi website. An e-commerce website requires repeatable checks of account, search, cart, and ordering functions. The student studies manual and automated testing, designs cases for the Maybi website, and applies Selenium with a keyword-driven framework to selected user functions. The thesis includes test cases, execution reports, and a recorded registration bug; it documents the use of Selenium on the selected website. The author states that the study focuses on one website and one testing approach, without comparison with data-driven or behavior-driven methods. Its keyword set is not fully optimized. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—Selenium, automated testing, Maybi website, keyword-driven tests**

I. Introduction

An e-commerce website requires repeatable checks of account, search, cart, and ordering functions. This thesis investigates Selenium-based automated testing of the Maybi website. It begins from a practical engineering need and explains the technologies and workflow chosen for the case. The objective is to document a student implementation or comparative investigation, together with the evidence available in the manuscript. Broader operational or economic effects require separate measurements and are not assumed from the existence of a prototype [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 student studies manual and automated testing, designs cases for the Maybi website, and applies Selenium with a keyword-driven framework to selected user functions. The source is summarized through its stated design, implementation material, examples, and conclusion. Features shown in the manuscript are distinguished from proposals for later development. This review does not add a new experiment, fill missing measurements with estimates, or treat a planned capability as an observed result. The source thesis remains the provenance for the reported work [1].

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III. Results

The thesis includes test cases, execution reports, and a recorded registration bug; it documents the use of Selenium on the selected website. The report's screens, configurations, examples, or measurements constitute the evidence for this summary. A capability described only as a design intention is not counted as a validated operational outcome. No additional performance, adoption, financial, or safety figure has been introduced here. The result is interpreted within the scope of the student's documented setup [1].

IV. Discussion

The author states that the study focuses on one website and one testing approach, without comparison with data-driven or behavior-driven methods. Its keyword set is not fully optimized. Further work could compare framework approaches, define repeatable coverage metrics, and apply the test suite to additional web or mobile systems. These limitations affect how the evidence should be read. The current manuscript can support understanding of the design and reported demonstration, while independent tests would be needed for stronger claims. Any later deployment should document its environment and separate observed outcomes from intended benefits [1].

V. Conclusion

The thesis documents Selenium-based automated testing of the Maybi website. The thesis includes test cases, execution reports, and a recorded registration bug; it documents the use of Selenium on the selected website. The author states that the study focuses on one website and one testing approach, without comparison with data-driven or behavior-driven methods. Its keyword set is not fully optimized. Further work could compare framework approaches, define repeatable coverage metrics, and apply the test suite to additional web or mobile systems. Accordingly, the present contribution is a source-grounded account of the student work and its tested or illustrated scope. Claims about broader effectiveness should be assessed in later work using explicit evaluation conditions [1].

References

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