Selenium WebDriver Tests for the FPT Shop Website

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***Abstract*—This undergraduate thesis investigates automated web tests of selected FPT Shop functions with Selenium WebDriver. A retail website benefits from repeatable checks of navigation, search, and shopping interactions. The student studies software testing and writes Java and Selenium WebDriver scenarios for selected functions of the named retail website. The report documents test-case construction and execution examples. The manuscript presents a partial automation exercise and the author reports stronger familiarity with web testing. Its conclusion acknowledges incomplete Selenium coverage, weak test-case design, and unoptimized code. The source does not provide complete site coverage, a validated defect rate, or a measured efficiency gain. One conclusion sentence refers to an unrelated system, so this summary relies on the actual test chapters and FPT Shop topic. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—Selenium WebDriver, FPT Shop, web testing, Java**

I. Introduction

A retail website benefits from repeatable checks of navigation, search, and shopping interactions. This thesis investigates automated web tests of selected FPT Shop functions with Selenium WebDriver. 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 software testing and writes Java and Selenium WebDriver scenarios for selected functions of the named retail website. The report documents test-case construction and execution examples. 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 manuscript presents a partial automation exercise and the author reports stronger familiarity with web testing. Its conclusion acknowledges incomplete Selenium coverage, weak test-case design, and unoptimized code. 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 source does not provide complete site coverage, a validated defect rate, or a measured efficiency gain. One conclusion sentence refers to an unrelated system, so this summary relies on the actual test chapters and FPT Shop topic. Further work could define expected outcomes and stable test data, expand the test matrix, and rerun it after documented fixes. 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 automated web tests of selected FPT Shop functions with Selenium WebDriver. The manuscript presents a partial automation exercise and the author reports stronger familiarity with web testing. Its conclusion acknowledges incomplete Selenium coverage, weak test-case design, and unoptimized code. The source does not provide complete site coverage, a validated defect rate, or a measured efficiency gain. One conclusion sentence refers to an unrelated system, so this summary relies on the actual test chapters and FPT Shop topic. Further work could define expected outcomes and stable test data, expand the test matrix, and rerun it after documented fixes. 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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