

<https://github.com/RestoretedLama/QATesting>

SE 2226 Software Quality Assurance and Testing 2024-2025 Spring

Test Completion Report

Group 20

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#### 1. Summary of testing performed

We tested Amazon website. We used black box technique because we do not have access to root code. The focus was on verifying the functionality of specific user interactions on the website. We performed functional testing to verify that each feature of the software works correctly according to the specified requirements. We performed non-functional testing to evaluate aspects like performance, usability, reliability, and scalability rather than specific functionalities of the software.

#### 2. Deviations from planned testing

Tests were passed but they should fail because they could not add any item to the cart. Deniz saw the issue and communicate with us. We solved the issue together.

Our sign in test failed because of a pop-up. Enis saw the issue by watching the Chrome driver works and solved it.

#### 3. Test completion evaluation

All critical functionalities passed testing. We presented our test and include the video of test running.

#### 4. Factors that blocked progress

In Elif's pc sign in test failed because of a pop-up so we ran it in Enis's pc and that pop-up did not pop so we run it on Enis's pc.

#### 5. Test measures

Presents the collated test measures.

EXAMPLE This can include measures for test cases, defects, incidents, test coverage, activity

progress, and resource consumption.

#### 6. Test deliverables

Lists all the test deliverables produced as a result of the testing and their location.

EXAMPLE This can include the test plan, test case specifications, and test procedure specifications.

#### 7. Lessons learned

Describes the results of the lessons learned meeting.

##### 1. Summary of Testing Performed

We tested the Amazon website using black-box testing techniques, as we did not have access to the source code. The primary focus was on functional testing of user interactions, including login, browsing, searching, filtering, sorting, cart management, and cart confirmation. We also conducted non-functional observations such as usability and reliability based on user experience during testing. All tests were implemented in JUnit 5.10.1 and executed using Selenium WebDriver on ChromeDriver.

##### 2. Deviations from Planned Testing

During testing, a deviation occurred when test cases related to adding items to the cart passed incorrectly despite the cart not being updated. This issue was identified by Deniz and resolved collaboratively. Additionally, the sign-in test initially failed on Elif's computer due to an unexpected pop-up. Enis observed the issue by watching the ChromeDriver session and successfully resolved it. The test was then rerun on Enis's machine without issue.

### 3. Test Completion Evaluation

All critical user functionalities were successfully tested. The test execution video was presented in class alongside the results. Test coverage included all planned functionalities, and testing was completed according to the schedule. The exit criteria defined in the test plan were met.

### 4. Factors that Blocked Progress

Progress was temporarily blocked by an unexpected pop-up that appeared during the sign-in process on Elif's machine. To overcome this, we ran the test on Enis's machine, where the pop-up did not appear. No other significant blockers were encountered.

### 5. Test Measures

- Total test cases written: 32
- Test cases executed: 32
- Test cases passed: 32
- Test cases failed :0
- Critical defects identified: 0
- Tools used: JUnit 5.10.1, Selenium WebDriver, ChromeDriver, IntelliJ
- Test environment: Local machines with Java and stable internet connection

### 6. Test Deliverables

- Test Plan Document
- Test Completion Report (this document)
- Class Presentation Slides
- Test Execution Video Recording
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All deliverables are stored in a zipped file and submitted to the course instructor.

### 7. Lessons Learned

- Environment consistency is critical for test reliability; pop-ups or browser differences may affect outcomes.
- Real-time monitoring (e.g., watching ChromeDriver) is helpful for quickly diagnosing automation failures.
- Strong team communication helped resolve issues efficiently.
- In future projects, implementing exception handling for UI changes and improving test resilience will be a priority.