

|  |
| --- |
| **TEST SUMMARY REPORT** |

**Project Name:** B41\_SDET\_31\_Quantity Sentinels  
**Prepared By:** Vasanthakumar G  
**Date:** December 21, 2024  
**Version:** 1.0  
**Reviewed By:** Self-Reviewed

#### **1. Objective**

The objective of this testing cycle was to ensure the functionality, usability, performance, and UI responsiveness of the **Style Mate Online Store** website. The testing was performed using **Cypress automation** with the **Page Object Model (POM)** for functional validation and **manual testing** for non-functional aspects.

#### **2. Scope of Testing**

The testing covered the following areas:

1. **Automation Testing** (POM Approach):
   * Core functionalities, including login, product search, cart operations, and checkout, were tested.
   * Modular POM approach ensured reusable and scalable test scripts for multiple workflows.
2. **Manual Testing** (Non-Functional):
   * Performance, usability, and UI responsiveness testing conducted manually.
   * Included validation across desktop, mobile, and tablet devices.

**Tested Platforms:**

* **Devices:** Desktop, Tablet, Mobile
* **Browsers:** Chrome, Firefox, Edge

#### **3. Test Results Summary**

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **Total Test Cases** | **Passed** | **Failed** |
| Automation Testing | Functional coverage ensured through modular POM scripts | 75% | 25% |
| Manual Testing | 11 test cases executed | 13 | 6 |

**5. Performance Metrics**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Type** | **Metric** | **Result** | **Acceptable Limit** |
| Load Testing | Homepage Load Time (Normal Load) | 3 seconds | < 3 seconds |
| Stress Testing | Peak Load Handling (5000 Users) | System slowed down | No performance drop |
| Response Time | Adding Product to Cart | 1.8 seconds | < 2 seconds |

#### **6. Test Coverage**

* **Automation Testing Coverage:**The POM approach enabled **comprehensive functional testing** of the website. Key modules such as login, product search,, cart operations, and checkout were validated. Reusable and modular test scripts reduced redundancy and improved scalability.
* **Manual Testing Coverage:**Focused on non-functional aspects such as performance, usability, and UI responsiveness. Critical flows were tested across multiple devices and browsers.

**7. Risk Assessment**

|  |  |  |
| --- | --- | --- |
| **Risk** | **Impact** | **Mitigation** |
| Missing Wishlist and Cart buttons | Negative user experience. | Fix missing UI elements for all products. |
| Mobile layout issues | Poor mobile user experience. | Ensure website responsiveness on all devices. |
| Slow homepage load time | Increased bounce rates. | Optimise assets and enable caching. |
| Missing Help and Support page | Reduced customer satisfaction. | Add and verify the functionality of Help pages. |

#### **8. Recommendations**

1. Fix critical bugs related to homepage, cart, footer links, and checkout functionalities.
2. Optimise homepage load time for a smoother user experience.
3. Ensure mobile responsiveness across all key workflows.

#### **9. Conclusion**

The **Style Mate Online Store** website was thoroughly tested using **Cypress automation with POM** for functional coverage and **manual testing** for non-functional aspects. Identified bugs require immediate attention to improve user experience and performance. Regression testing and extended scope testing (e.g., API integrations) are recommended for the next phase.

#### **10. Next Steps**

* **Bug Fixes:** Address the critical bugs related to functionality, performance, and compatibility

### **Final Notes:**

This test summary report highlights the effective use of **Cypress POM** for automation and manual testing for non-functional validation, ensuring a detailed quality assessment of the Style mate Online Store.