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| **TEST\_PLAN**  Project Name: Quality Sentinels  URL Link: [Click Here](https://luni-interface-029.vercel.app/) |



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| **Prepared By**: Vasanthakumar G  **Start Date:** December 17, 2024  **End Date:** December 21, 2024 |

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| **Introduction** |

This document outlines the testing strategies and scope for the **Style Mate Online Store**. Testing ensures proper functionality, UI/UX, compatibility, and performance for key features such as registration, login, product search, and cart management.

* Website Link: <https://luni-interface-029.vercel.app/>

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| **Objectives** |

* Ensure all navigation links and features work as intended.
* Verify functionality of critical features (Login, Product Search, Add to Cart, Checkout, Wishlist, Footer Links, etc.).
* Ensure responsiveness across browsers and devices.
* Validate BDD Gherkin scenarios implemented with Cypress using the POM framework.

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| **Scope** |

The test plan covers **functional, UI/UX,** and **Usability** testing across major browsers (Chrome, Edge) and devices (desktop, mobile). It includes manual and automated testing of core features to ensure user experience consistency and reliability and manual testing performed for Non-functional testing.

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| **Testable Features** |

* **Registration & Login**: Creating accounts and authenticating users.
* **Search Bar**: Testing the product search functionality.
* **Profile Management**: User profile updates and preferences.
* **Add to Cart**: Adding and removing items from the cart.
* **Checkout**: Completing purchases and payment gateway integration.
* **Wishlist**: Adding products to the Wishlist.
* **Product Categories**: Testing navigation and product display for categories like Home, Shop, Men, Women, kids, etc.
* **Footer Links**: Testing links like "About Us," and "Privacy Policy".

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| **Testing Approach** |

**Testing Types**:

* **Functional Testing**: Verify that features (e.g., registration, add to cart) perform as expected.
* **Compatibility Testing**: Test across browsers (Chrome, Edge, Firefox) and devices (desktop, tablet, mobile).
* **Performance Testing**: Measure page load times and responsiveness for critical features.

**Testing Methodologies:**

* **BDD with Gherkin:** Writing scenarios to define feature behaviour.
* **Exploratory Testing:** Testing beyond documented scenarios.
* **Regression Testing:** Validating existing features after bug fixes or new feature additions.

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| **Roles/Responsibilities** |

As the sole tester for this project, I was responsible for:

* Creating a comprehensive **Test Plan** to outline objectives, scope, and strategies.
* Writing detailed **BDD scenarios** in Gherkin syntax for all core functionalities.
* Automating test cases using **Cypress** with the **Page Object Model (POM)** approach.
* Conducting manual and exploratory testing to ensure functional and compatibility quality.
* Identifying and analysing bugs through thorough testing and documenting insights.
* Compiling a **Test Results Summary** to highlight testing outcomes and application quality.

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| **Test Schedule** |

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| **Task** | **Duration** |
| Test Plan Creation & Mind Map | 18 December 2024 |
| Test Scenario | 19 December 2024 |
| Test Scripts & Execution | 20 December- 21 December 2024 |
| Manual Test cases & Bug Reporting | 21 December 2024 |
| Test Summary / Presentation Report Submission | 21 December 2024 - 21 December 2024 |

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| **Test Deliverables** |

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| **Deliverable** | **Description** |
| Test Plan | Detailed implement a plans and Feature. |
| Mind Map | Detailed testing strategy and scope |
| Automation Test cases Test Scripts | Detailed cases for Testing |
| Defect Reports | Identified bugs during testing |
| Test Summary | Detail summarise what you have done in whole Testing |

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| **Entry & Exit Criteria** |

**Entry Criteria**:

* Access to the Style Mate Online Store.
* All features available and functional.
* Approved BDD scenarios and Cypress scripts ready for execution.

**Exit Criteria**:

* All critical and high-priority bugs fixed.
* All features meet the expected behaviour defined in scenarios.

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| **Tools** |

1. **Cypress**: For writing and executing automation scripts.
2. **Cucumber**: For defining BDD scenarios.
3. **Browser Stack**: For cross-browser and device compatibility testing.
4. **Google And word Docs**: For creating Test Plan and Test Summary.

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| **Risks and Mitigation Plans** |

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| **Deliverable** | **Description** |
| Unstable website | Plan testing during stable hours. |
| Undefined requirements | Clarify requirements before testing. |

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| **Approvals** |

Masai will send different types of documents for Client Approval like below:

* **Test Plan**
* **Scenarios**
* **Mind Map**
* **Scripts**
* **Reports**

Testing will only continue to the next steps once these approvals are done.