https://luni-interface-029.vercel.app/

Project Code: B42_SDET_004_QAAvengers

Project Name: StyleMate

Test Plan for StyleMate

Submitted By:

Vinita Kumawat(fs40_393032) & Suman Shekhar Jena(fs41_452343)

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➢ Introduction

This test plan aims to define the scope, approach, resources, and schedule for the automation testing of the Luni Interface website using Cypress and the Page Object Model (POM). The test automation framework will validate core functionalities, navigation, responsiveness, and user interactions.

➢ Objectives

- Ensure all key functionalities of the Luni Interface website work as expected.

- Validate navigation flows and redirections.

- Test responsiveness across different screen sizes (desktop, tablet, mobile).

- Verify interactive elements and UI components.

- Identify and report bugs effectively.

➢ Scope

The test automation will focus on:

- Homepage Navigation

- Login/Signup

- Interactive Components

- Add to Cart & Checkout Process

- Responsiveness and Layout

- Content Validation

- Footer Links

➢ Testable Features

Feature	Test Scenarios
Homepage Navigation	Validate header & footer navigation links
Login/Signup	Test redirection from CTA buttons, error handling, and success cases
Interactive Components	Verify functionality of sliders, toggles, and dynamic UI components
Add to Cart & Checkout	Validate error messages and success messages after correct submissions
Responsiveness & Layout	Ensure proper display across devices
Content Validation	Verify static and dynamic content accuracy
Footer Links	Check redirection to relevant pages

➢ Testing Approach

- Cypress will be used as the test automation tool.

- The Page Object Model (POM) will be implemented for maintainability and reusability.

- Tests will be executed via the Cypress CLI and GUI.

- Assertions will be applied to validate expected outcomes.

- Automated tests will be integrated into the CI/CD pipeline.

➢ Roles & Responsibilities

- Develop and maintain automated test scripts using Cypress.
- Implement the Page Object Model (POM) for better test maintainability.
- Execute automated test cases and validate expected outcomes.
- Identify, log, and track bugs in a defect management tool.
- Ensure test coverage for functional, UI, and regression testing.
- Collaborate with developers to resolve defects and improve test efficiency.
- Generate and maintain automation test reports.

➤ Test Schedule

Milestone	Estimated Completion
Cypress Setup	4 Feb
POM Implementation	5 Feb
Test Case Development	6 Feb
Test Execution	7 Feb
Bug Reporting & Fixes	8 Feb

➤ Test Deliverables

- Test Scenarios and Test Cases
- Test Scripts (Cypress with POM)
- Bug Reports
- Summary Report
- Mind Map for Test Flow Visualization

➤ Entry and Exit Criteria

Entry Criteria:

- The test environment setup is complete.
- All necessary test data is available.
- The application under test is stable.

Exit Criteria:

- All planned test cases are executed.
- Major defects are fixed and retested.
- The test summary report is prepared and reviewed.

➤ Tools

- **Test Automation Tool**: Cypress

- **Programming Language**: JavaScript

- **Framework**: Mocha & Chai (within Cypress)

- **Defect Tracking**: Jira or similar tool

- **CI/CD Integration**: GitHub Actions

➤ Risks & Mitigation

Risk	Mitigation Strategy
Cypress compatibility issues	Use the latest stable versions, cross-browser testing
Dynamic UI changes	Implement flexible locators and update tests accordingly
Test flakiness	Use retry mechanisms and proper wait strategies
Resource availability	Plan testing activities in advance, and allocate tasks efficiently

➤ Approvals

This test plan will be reviewed and approved by the QA lead and project Manager **Vaishnavi Lakhore** before execution.