Approvals

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

Risks & Mitigation **Risk**

Cypress compatibility issues: Dynamic UI changes:

Resource availability:

Test flakiness:

Mitigation Strategy

Use the latest stable versions, cross-browser testing
Implement flexible locators and update tests accordingly
Use retry mechanisms and proper wait strategies

Plan testing activities in advance, and allocate tasks efficiently

Tools

- Test Automation Tool: Cypress
- Programming Language: JavaScript
- Framework: Mocha & Chai (within Cypress)
- Defect Tracking: Jira or similar tool
- CI/CD Integration: GitHub Actions

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.

Entry and Exit Criteria

Test Deliverables

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

Test Schedule

Milestone

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

Estimated Completion

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

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.

Presented with **xmind**

Test Plan for

StyleMate