



# Test Plan

Luma Clothing Platform

Version 1.0

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# 1. Test Plan Identifier

This document is identified as **TPR-Luma-Platform-v1**.

## 2. Introduction

The purpose of this Test Plan document is to outline the testing strategy, scope, objectives, and resources required for verifying the functionality of the **"Create New Customer Account"** feature on the Luma Clothing platform. This document provides a structured approach to ensure that all aspects of the account registration process are thoroughly tested to meet the defined functional and quality requirements.

The **Luma Clothing platform** is an online retail website that allows users to browse and purchase clothing and accessories. The "Create New Customer Account" feature is a critical component of the platform, enabling unregistered users to sign up for an account. This account registration feature is essential for the platform's user experience, as it allows customers to save personal information, manage orders, and receive personalized offers.

### Epic 1 – Registering an account

**User Story 1** – ‘As an unregistered unauthenticated user, I want to register myself for an account, so that I can log in and make purchases’

This Test Plan document will serve as a guide for the testing team, providing detailed steps and criteria to ensure that the account registration functionality meets expected standards. It includes relevant background information on the registration process, focusing on validating input fields, password strength indicators, error handling, modals, and confirmation messages. This structured testing approach aims to confirm that users can successfully create accounts and proceed with secure, error-free interactions on the Luma Clothing platform.

## 3. Test Items

The scope of this testing effort includes verifying all components and functionalities associated with the **"Create New Customer Account"** feature on the Luma Clothing platform. The testing will be focused on ensuring that the account registration process functions as expected and meets the defined requirements. The items to be tested, as well as those out of scope, are outlined below:

### 3.1 Systems and Components to be Tested

1. **User Registration Form:**
  - Validation of mandatory fields such as First Name, Last Name, Email, and Password.
  - Verification of email format and unique email address requirements.
  - Validation of password criteria, including length, character types, and strength indicators.
2. **Password Strength Indicator:**
  - Ensuring the password strength meter accurately reflects the entered password's complexity.
  - Verification of real-time feedback for password requirements.

**3. Error Handling and Messages:**

- Validation of error messages for incorrect or missing input fields (e.g., password mismatches, invalid email format).
- Consistent and informative error messages aligned with user experience standards.

**4. Modal Pop-Ups:**

- Verification of modals, such as "Personal Information" and "Registration Confirmation," displaying correct labels and information.
- Checking the behavior of modals to ensure they open and close as expected.

**5. Confirmation Elements:**

- Confirmation messages or pop-ups upon successful registration, ensuring the user is aware of successful account creation.
- Verification of any additional actions, such as redirects to the login page after registration.

**6. Optional Elements:**

- The "Sign Up for Newsletter" checkbox, ensuring that it functions correctly when present.
- Verification that all optional fields are non-blocking to the registration process if left empty.

## 3.2 Business Processes in Scope

- The **account registration process** for new users, covering all steps from input validation to confirmation.
- Basic **user interaction flow** for unregistered users attempting to create an account.

## 4. Approach

The testing approach for the "Create New Customer Account" feature on the Luma Clothing platform will involve thorough manual testing across multiple test cases to validate user interactions, interface elements, and backend responses. This approach aims to confirm that the user registration flow is working as expected and aligns with specified requirements.

Testing will be conducted using a structured process where each test case is executed based on defined steps and criteria, carefully documenting expected versus actual outcomes. Focus areas include UI elements such as input fields, password strength indicators, modals, and confirmation messages, as well as backend validations that ensure data integrity and security.

Defects found during testing will be prioritized by their impact and tracked systematically to facilitate quick resolutions. Configuration management processes will be applied to maintain test case consistency and ensure traceability between requirements, test cases, and outcomes. This enables reliable re-testing of any changes made after defect fixes, confirming that issues are fully resolved without introducing new bugs.

All test activities and outcomes will be recorded to generate insights on the quality of the feature. This approach ensures that the user registration process is functional, secure, and user-friendly, ready to provide a seamless experience for new customers.

## 5. Item pass/fail Criteria

### 5.1 Pass/Fail Criteria

For the "Create New Customer Account" feature on the Luma Clothing platform, each test case will be evaluated based on the following criteria:

1. **Pass:** The test case meets all expected results as per the requirement specifications, with the system exhibiting the intended functionality and behavior.
2. **Fail:** The test case does not meet expected results or shows inconsistencies, errors, or deviations from the requirement specifications.

### 5.2 Entry Criteria

- The test environment is set up and accessible.
- The "Create New Customer Account" feature is developed and deployed to the test environment.
- All prerequisite conditions for test cases are met, including required user credentials, data inputs, and system configurations.
- Test cases are reviewed, approved, and traceable to functional requirements.

### 5.3 Exit Criteria

- All planned test cases for the feature are executed.
- A minimum pass rate of 90% is achieved across test cases, or all critical issues are resolved.
- All critical and high-severity defects are addressed and retested.
- Test execution results are documented, and test summary reports are generated.

## 6. Suspension Criteria

Testing for the "Create New Customer Account" feature on the Luma Clothing platform will be temporarily halted if any of the following conditions occur:

1. A Severity 1 defect that blocks test execution, such as an application crash, a broken registration flow, or an environment failure that prevents access to critical components.
2. A dependency on a pending fix or feature deployment that is required for the continuation of specific test cases.
3. Major data inconsistencies or issues with test environment configuration that impact the accuracy or reliability of test results.

### 6.1 Resumption Criteria

Testing will resume when:

- All Severity 1 defects blocking the test cases are resolved and verified.
- Required fixes or features are successfully deployed, allowing for dependent test cases to continue.
- The test environment is stable and correctly configured for accurate test execution.

## 7. Test Deliverables

The following tangible artifacts will be created and maintained throughout the testing process for the "Create New Customer Account" feature on the Luma Clothing platform:

- **Test Conditions:** A documented set of specific conditions and scenarios to be tested.
- **Test Cases:** Detailed test cases outlining expected inputs, actions, and outcomes.
- **Test Execution Schedule:** A timeline for executing test cases, based on project milestones and priorities.
- **Defect Reports:** Individual reports for each defect identified, including severity, steps to reproduce, and expected versus actual results.
- **Defect Summary:** A consolidated summary of all defects, categorized by severity and status, to track overall progress.
- **Session-Based Testing Templates:** Documentation templates used to capture information for each testing session.
- **Test Progress Reports:** Periodic updates on test execution status, pass/fail rates, and defect status.
- **Test Closure Report:** A final report summarizing the testing outcomes, metrics, and any residual risks or issues at the completion of the testing phase.
- **Metrics Reports:** Data-driven reports on test execution metrics such as pass/fail rates, defect distribution, and retesting efforts.

These deliverables will ensure a comprehensive overview of testing activities and facilitate communication with stakeholders.

## 8. Testing Tasks

These are the testing tasks to be performed:

### 1. Test Preparation:

- Review the requirements and user stories for the **Create New Customer Account** feature.
- Identify test scenarios and create test conditions based on the feature's specifications.
- Review and confirm test data requirements for account creation (e.g., valid/invalid email, password criteria, etc.).

### 2. Test Case Creation:

- Develop detailed **test cases** for the **Create New Customer Account** feature.
- Ensure the test cases cover:
  - Valid account creation (with correct input).
  - Invalid account creation (invalid email, short passwords, missing required fields).
  - Edge cases (e.g., maximum length of fields, special characters).
  - Boundary testing (e.g., password length).

### 3. Test Execution:

- Execute the test cases manually on the Luma Clothing platform, following the specified test conditions.
- Log defects and issues encountered during testing.
- Retest the failed test cases after the defects are fixed.

**4. Defect Management:**

- Track and report defects using the designated defect tracking tool.
- Collaborate with the development team to prioritize, reproduce, and fix the defects.
- Ensure proper defect closure after verification of fixes.

**5. Metrics Collection:**

- Capture test execution metrics, including the number of test cases executed, passed, failed, and blocked.
- Track defect density and severity for each test iteration.
- Report on the overall test coverage for the feature.

**6. Test Reporting:**

- Create daily or weekly test progress reports, highlighting the status of test execution, defects, and any blockers.
- Document and share test results with stakeholders.

**7. Test Closure:**

- Finalize test activities once all test cases have been executed.
- Prepare and share a **test closure report**, which includes:
  - Summary of test execution results.
  - Final defect status (open/closed).
  - Recommendations for product release.
  - Lessons learned from testing the feature.

**8. Test Plan Schedule:**

- Create a schedule for the testing tasks (test preparation, execution, reporting, and closure).
- Define milestones for test execution and defect resolution.
- Align test plan with the overall project timelines.

This list should be customized to fit your specific testing environment and methodology (e.g., Agile, Scrum) and should also integrate with any existing testing frameworks or tools used on the Luna Clothing platform.

## 9. Environmental Needs

**1. Test Environment Setup:**

- **Staging Environment:** Manual tests for the **Create New Customer Account** feature should be conducted in a staging environment that replicates the production setup as closely as possible. This includes:
  - Accurate server configurations and databases to match production.
  - Similar network and security configurations to ensure realistic test results.

**2. Software & Hardware Requirements:**

- **Browser Requirement:** All testing will be done on **Google Chrome**, using the latest version available.

- **Operating System:** Specify the OS being used for testing (e.g., Windows 10, macOS) to standardize the environment and help replicate any issues found.

### 3. Release Schedules and Coordination:

- **Feature Release Schedule:** Coordinate the release of the **Create New Customer Account** feature to ensure updates are available in the staging environment when needed.
- **Environment Availability:** Ensure that the environment remains stable and accessible for manual testing within the planned testing timeframe, with clear communication of any scheduled downtimes.

### 4. Environment Ownership:

- **Ownership and Access:** Confirm the designated owners for setting up and maintaining the test environment (e.g., DevOps or IT team) and ensure testers have full access rights in Chrome to complete testing tasks.

### 5. Limitations:

- **Test Data Availability:** Ensure test data needed for different scenarios (valid, invalid, boundary cases) is readily available and regularly refreshed.
- **Known Platform Limitations:** Document any limitations specific to manual testing on Chrome (e.g., specific feature or performance limitations in the test environment).

### 6. System Outages and Maintenance:

- **Scheduled Maintenance Coordination:** Work with the environment management team to avoid planned maintenance during testing hours.
- **Unexpected Outages:** If any unscheduled outages occur, communicate promptly with the team and document the impact on testing.

### 7. Tools and Resources:

- **Test Management Tool:** Use an accessible tool for test case management, defect tracking, and reporting that integrates easily with Chrome.
- **Chrome DevTools:** Ensure testers are familiar with Chrome's built-in DevTools for basic troubleshooting or identifying layout or console issues during testing.

This setup will allow for smooth manual testing on Google Chrome, ensuring accuracy and minimal interruptions during the test phase for the Luna Clothing platform.

## 10. Responsibilities

### 1. Test Team:

- **Manual Testers:** Execute test cases, log defects, and ensure full coverage.
- **Test Analyst:** Design test cases, prepare test data, and align tests with requirements.



## 2. Test Management:

- **Test Lead:** Oversee test planning, resource allocation, and timelines.
- **Defect Manager:** Track and prioritize defect resolution.

## 3. Stakeholders:

- **Product Owner:** Provide requirements, clarify acceptance criteria, and approve testing outcomes.
- **Business Analyst:** Clarify requirements and help identify test scenarios.

## 4. SCRUM Specialists:

- **Scrum Master:** Facilitate testing within sprints and resolve blockers.

## 5. Subject Matter Experts (SMEs):

- **Customer Experience SME:** Ensure tests meet customer needs.
- **Technical SME:** Assist with technical issues and defect resolution.

## 6. Environment Support:

- **DevOps Engineer:** Maintain test environment stability.
- **Database Administrator:** Manage test data and database integrity.

This streamlined team structure ensures effective testing and clear accountability across roles.

# 11. Staffing and Training

## 1. Staffing Needs:

- Allocate dedicated **Manual Testers** with experience in e-commerce platforms to cover all aspects of the **Create New Customer Account** feature.
- Involve **Test Leads** and **Analysts** to plan, execute, and oversee the test cases and results.

## 2. Training for Manual Testing:

- **Basic Testing Fundamentals:** Cover test case design, defect tracking, and reporting.
- **Browser-Specific Testing:** Training on using Google Chrome DevTools for troubleshooting and inspecting elements.
- **Testing Techniques:** Train on functional, boundary, and exploratory testing methods.
- **Defect Management:** Instruction on using the designated defect tracking tool to log, prioritize, and update issues.

## 3. Platform-Specific Training:

- Familiarize the team with the **Luna Clothing Platform** features, workflows, and user roles.
- Provide insights into common user scenarios and expected behaviors for key features (e.g., account creation, checkout process).

These trainings will ensure that the testing team is fully equipped to conduct accurate and effective manual testing on the platform.

## 12. Schedule

### 1. Test Planning and Preparation

- **Week 1:** Review requirements, identify test scenarios, and create test cases for the **Create New Customer Account** feature.

### 2. Environment Setup

- **Week 2:** Ensure staging environment is ready, set up test data, and verify access.

### 3. Test Execution

- **Weeks 3-4:** Execute manual tests on Google Chrome, log defects, and retest after fixes. Track daily progress and report key findings.

### 4. Defect Management and Retesting

- **Weeks 4-5:** Collaborate with developers on defect resolution and conduct regression testing on impacted areas.

### 5. Test Closure and Reporting

- **Week 5:** Finalize test execution, complete defect tracking, and prepare the test closure report summarizing results, defect status, and recommendations.

This schedule may be adjusted based on sprint timelines or resource availability. Regular updates should be provided to stakeholders on progress and any blockers encountered.

## 13. Risks and Contingencies

### 1. Changes to Requirements:

- **Risk:** Last-minute requirement changes may delay testing.
- **Contingency:** Early review with stakeholders and schedule buffer time.

### 2. Environment Instability:

- **Risk:** Staging environment issues may delay tests.
- **Contingency:** Collaborate with DevOps for environment monitoring and have a backup.

### 3. Key Staff Unavailability:

- **Risk:** Key testers may be unavailable.
- **Contingency:** Cross-train staff and have backups ready.

**4. Inadequate Test Data:**

- **Risk:** Lack of valid test data.
- **Contingency:** Ensure test data is available beforehand and use automated tools if needed.

**5. Defects and Delays in Development:**

- **Risk:** Critical defects may delay testing.
- **Contingency:** Prioritize defect fixes and set up daily progress checks.

**6. Browser Compatibility Issues:**

- **Risk:** Chrome-related issues may hinder testing.
- **Contingency:** Perform compatibility checks early and involve developers if needed.

**7. Overlapping Testing and Development:**

- **Risk:** Ongoing development may interfere with testing.
- **Contingency:** Align testing and development cycles and limit changes during testing.

This ensures that potential risks are identified and addressed promptly to keep testing on track.

## 14. Approvals

The following individuals are required to review and approve the Test Plan to ensure its accuracy and completeness:

- **Test Manager:** Teyfik Acikgoz
- **Project Manager:** NA
- **Development Lead:** NA
- **QA Lead:** NA
- **Stakeholders:** NA

Each individual listed will review the test scope, objectives, resources, schedule, and methodologies before final approval and sign-off on the Test Plan.