NuttyLoves E-commerce Platform Test Plan



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**Test Plan for NuttyLoves E-commerce Platform**

**BACKGROUND**

The NuttyLoves e-commerce platform is designed to manage product listings, customer accounts, inventory, orders, and sales reports. It provides role-based access for Admins to manage back-end operations and for Customers to browse products, create accounts, and place orders. This test plan outlines the strategy to validate the platform’s core functionalities, usability, performance, and security across different roles and devices.

**INTRODUCTION**

This document presents the test plan for the NuttyLoves e-commerce platform to ensure it meets functional and non-functional requirements. The focus of testing is to confirm account management, order processing, inventory updates, product management, and reporting are all handled securely, reliably, and accurately. Testing will include simulations of real-world user interactions and stress conditions.

**USER ROLES**

| **User** | **Role Description** |
| --- | --- |
| Customer | Registers, logs in, browses products, places orders |
| Admin | Manages products, inventory, orders, and sales reports |

**ASSUMPTIONS**

* Hardware (PCs, laptops, mobile devices) and stable internet will be available during testing.
* Testers are trained and familiar with e-commerce testing protocols.
* Test environments will simulate both admin and customer perspectives.

**TEST SCOPE**

**IN SCOPE**

| **Req No.** | **Test Item** | **Description** | **Role** |
| --- | --- | --- | --- |
| 1 | Create Account | Verify account creation for new customers | Customer |
| 2 | Manage Account | Ensure users can update their profile | Customer |
| 3 | Login | Validate login with secure authentication | All Roles |
| 4 | Create Order | Confirm complete order placement workflow | Customer |
| 5 | Manage Products | Admin creates/updates/deletes products | Admin |
| 6 | Manage Inventory | Admin views and adjusts product stock | Admin |
| 7 | Manage Orders | Admin updates and monitors order statuses | Admin |
| 8 | Generate Sales Report | Admin generates sales summaries and exports data | Admin |

**OUT OF SCOPE**

* Third-party payment gateway integrations
* External logistics/tracking APIs
* Marketing and email automation tools
* Customer reviews and ratings

**TEST APPROACH**

Testing includes:

* Functional Testing: Create Account, Create Order, Product/Inventory/Order Management
* Non-functional Testing:
  + Security: Secure login, role-based access
  + Usability: Interface clarity and role workflows
  + Compatibility: Desktop/mobile and cross-browser behavior
  + Performance: System response under concurrent users
  + Data Integrity: Accuracy of user and order records

**LEVELS OF TESTING PER SDLC PHASE**

* **Unit Testing**: Validate individual components (e.g., account creation, order saving)
* **Integration Testing**: Confirm modules like inventory, orders, and products interact smoothly
* **System Testing**: End-to-end testing of customer and admin tasks
* **User Acceptance Testing (UAT)**: Conducted with live users to verify real-world usability

**TESTING METHODS**

* Manual Testing: For workflows like Create Order and Manage Inventory
* Responsive Testing: Across screen sizes and mobile browsers
* Regression Testing: Ensuring stability after updates
* Role-Based Testing: Validate permission controls for Admin vs. Customer
* Compatibility Testing: Confirm functionality across Chrome, Firefox, Edge, etc.

**PASS/FAIL CRITERIA**

* **Pass**: All features execute expected outputs; data is accurate; no critical UI/security bugs
* **Fail**: Functional errors, incorrect calculations (e.g., totals), unauthorized access, or broken UI components

**SUSPENSION/RESUMPTION CRITERIA**

* **Suspend if**: Login fails, major order creation errors, critical inventory/product issues, or system crashes
* **Resume when**: Major bugs are resolved, login and ordering work, and data is validated

**TEST DELIVERABLES**

* Test Cases Document
* Test Results Log
* Bug Reports
* Test Summary Report
* Requirements Traceability Matrix (RTM)

**TESTING TASKS**

* Setup environment for Admin and Customer roles
* Execute account creation, login, and order flows
* Validate data updates and reporting accuracy
* Report bugs and re-test fixes

**ENVIRONMENTAL NEEDS**

**Hardware**: Laptops/desktops with 8GB RAM, Android/iOS mobile devices  
**Software**: Web browsers (Chrome, Firefox, Edge), GitHub, any bug tracking tools  
**Network**: 5 Mbps+ internet connection

**ROLES & RESPONSIBILITIES**

| **Activity** | **QA Tester** | **Developer** | **Project Manager** | **Product Owner** |
| --- | --- | --- | --- | --- |
| Test Planning | R | C | A | I |
| Test Case Development | R | C | A | I |
| Manual Testing | R | I | A | I |
| Bug Reporting | R | C | A | I |
| UAT Coordination | C | I | R | A |

**SCHEDULE**

| **Phase** | **Start Date** | **End Date** |
| --- | --- | --- |
| Unit Testing | 05/20/25 | 05/21/25 |
| System Testing | 05/22/25 | 05/23/25 |
| Integration Testing | 05/24/25 | 05/25/25 |
| UAT | 05/26/25 | 05/27/25 |
| Regression Testing | 05/28/25 | 05/29/25 |
| Security Testing | 05/30/25 | 05/31/25 |

**RESOURCES**

* **Hardware**: Laptops, mobile devices
* **Software**: Browsers, GitHub, Python (for scripting), bug tracking tools

**RISKS & CONTINGENCIES**

* **Risks**: Performance lag, browser-specific issues, data loss, login failures
* **Contingencies**: Load testing, responsive design QA, access control enforcement, regular data backups

**APPROVALS**

| **Name** | **Position** | **Signature** | **Date** |
| --- | --- | --- | --- |
| Demeter Renee Caubang | Project Manager |  |  |
| Felino Calderon III | Development Lead |  |  |
| Bary Reyes | Project Adviser |  |  |
| Jose Eugenio Quesada | Project Consultant |  |  |
| Hannah Reyes Torres | Client |  |  |