Test Plan for OpenCart: Elevating Login & Register Experiences

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1. Objective

This dynamic test plan illuminates the path for the OpenCart application, zeroing in on the Login and Register pages. Our mission? To deliver a seamless, secure, and delightful experience for e-commerce users, ensuring every interaction shines with perfection.

2. Scope

Whats in Focus:
- **Features to be tested**: User registration (username, first name, last name, email, country, password), login (email, password), and password recoverycrafted for ease and security.
- **Types of testing**: Manual testing for human insight, automated testing for efficiency, usability testing for intuitive design, and accessibility testing for inclusivity.
- **Environments**: A kaleidoscope of browsers, operating systems, and devices to mirror real-world usage.
- **Evaluation criteria**: Track the number of defects uncovered, time invested in testing, and glowing user satisfaction ratings.
- **Team roles and responsibilities**: A symphony of collaboration with test leads, testers, and developers.

3. Inclusions

The Highlights:
- **Introduction**: A vibrant overview of our purpose, scope, and ambitious goals.
- **Test Objectives**: Unearth defects, enhance user delight, and achieve top-tier performance with every click.

4. Exclusions

Out of the Spotlight: Features like product browsing, cart functionality, or checkout processes take a backseat for now.

5. Test Environments

Where Magic Happens:
- **Operating Systems**: Windows 10, macOS, Linuxcovering the tech landscape.
- **Browsers**: Google Chrome, Mozilla Firefox, Microsoft Edgeensuring cross-browser harmony.
- **Devices**: Desktops, laptops, tablets, smartphonestested on every screen size.
- **Network Connectivity**: Wi-Fi, cellular, wiredsimulating all connection types.

- **Hardware/Software Requirements**: Tailored specs for optimal performance.
- **Security Protocols**: Robust passwords, tokens, and certificates for safety.
- **Access Permissions**: Clear roles for testers, developers, and stakeholders.

6. Defect Reporting Procedure

 Turning Flaws into Strengths:
- **Criteria for identifying defects**: Spot deviations from requirements, user experience hiccups, or technical glitches.
- **Steps for reporting defects**: Use a sleek template, detail reproduction steps, and attach vivid screenshots or logs.
- **Triage and prioritization**: Assign severity and priority levels, routing issues to the right experts.
- **Tracking tools**: Leverage cutting-edge defect tracking or project management software.
- **Roles and responsibilities**: Testers, developers, and test leads unite for resolution.
- **Communication channels**: Keep stakeholders in the loop with real-time updates.
- **Metrics**: Measure defects found, resolution time, and fix rates for continuous improvement.

7. Test Strategy

 Our Winning Approach:
- **Step 1: Test scenarios and test cases creation**: Employ Equivalence Class Partition, Boundary Value Analysis, Decision Table Testing, State Transition Testing, and Use Case Testing. Sprinkle in Error Guessing and Exploratory Testing for creativity.
- **Step 2: Testing procedure**:
- **Smoke Testing**: Quick check of critical functionalities like form submission.
- **In-depth Testing**: Dive deep with test cases post-Smoke Testing success.
- **Multiple environments**: Test simultaneously across all supported platforms.
- **Defect Reporting**: Log bugs in the tracking tool, send daily status emails.
- **Types of Testing**: Smoke, Sanity, Regression, Retesting, Usability, Functionality & UI Testing.
- **Step 3: Best Practices**:
- **Context Driven Testing**: Tailor testing to OpenCarts unique context.
- **Shift Left Testing**: Catch issues early in development.
- **Exploratory Testing**: Unleash innovation beyond scripted cases.
- **End to End Flow Testing**: Simulate real user journeys from sign-up to login.

8. Test Schedule

 Timeline of Excellence:
- **Tasks and Time Duration**: Crafting test plan (1 day), test case creation (2 days), test case execution (3 days), summary reports submission (1 day).
- **Dates**: October 07, 2025 - October 13, 2025lets make it happen!

9. Test Deliverables

Milestones of Success:
- **Entry and Exit Criteria**: Defined for each phase of the Software Testing Life Cycle (STLC).

10. Entry and Exit Criteria

Gateways to Quality:
- **Requirement Analysis**:
- **Entry**: Receiving Requirements Documents.
- **Exit**: Crystal-clear understanding and clarified requirements.
- **Test Execution**:
- **Entry**: Signed-off Test Scenarios and Test Cases, Application primed for testing.
- **Exit**: Polished Test Case Reports and Defect Reports.
- **Test Closure**:
- **Entry**: Test Case Reports and Defect Reports ready.
- **Exit**: Comprehensive Test Summary Reports.

11. Tools

Our Toolkit:
- **List of Tools**: JIRA Bug Tracking Tool, Mind map Tool, Snipping Screenshot Tool, Word and Excel documents.

12. Risks and Mitigations

Navigating Challenges:
- **Possible Risks**: Resource shortages, broken Build URL, tight testing timelines.
- **Mitigations**: Backup resource planning, pivoting to other tasks, dynamically scaling resources.

13. Approvals

Seal of Approval:
- **Documents for Client Approval**: Test Plan, Test Scenarios, Test Cases, Reports.