**Sprint 3: Shopping Cart & Checkout Test Plan**

**1.0 Test Plan Identifier**

* **Unique ID:** SP-TP-3.0
* **Version:** 1.0

**2.0 Introduction / Objective**

This document outlines the test plan for Sprint 3, which focuses on the critical shopping cart and checkout process. The objective is to ensure a secure, accurate, and seamless transaction from the cart to order confirmation.

**3.0 Scope of Testing**

* **In-Scope:** Shopping cart functionality (add, remove, update), the entire checkout flow for both guests and logged-in users, and mock payment integration.
* **Out-of-Scope:** Multiple payment methods (e.g., PayPal), promotional codes, and order cancellation or returns.

**4.0 Test Strategy / Approach**

* **Manual Testing:** The QA team will conduct **End-to-End Testing** and **Negative Testing** to validate the entire transaction flow.
* **Automation:** Critical end-to-end checkout flows will be automated for future regression suites.
* **Security Testing:** A focused **Security Testing** approach will be applied to all sensitive data input fields to mitigate risks like cross-site scripting (XSS).
* **Testing Levels:** Focus will be on **Integration and System Testing** to ensure all components work together flawlessly.

**5.0 Test Deliverables**

* Manual test cases for all checkout scenarios documented in Jira.
* **Automated scripts** for the end-to-end checkout flow.
* A comprehensive sprint-end **QA summary report** on testing status.

**6.0 Entry and Exit Criteria**

* **Entry Criteria:** The development for the sprint is complete, and a stable build is deployed. The mock payment gateway is fully configured in the QA environment.
* **Exit Criteria:** All **P1 & P2** defects are resolved, and the automated end-to-end tests for the checkout path pass. The test case pass rate is a minimum of **98%** due to the critical nature of this functionality.

**7.0 Roles and Responsibilities**

* **QA Engineer:** Responsible for end-to-end testing, negative testing, and automation script development.
* **Scrum Master:** Responsible for facilitating the sprint process and removing any blockers.
* **Developer:** Responsible for bug fixes and providing technical support during testing.

**8.0 Defect Management**

* Defects are logged and managed in **Jira**.
* Defects found during security testing will be prioritized for immediate resolution.
* Defect status and resolution details will be formally reported at the end of the sprint.