**Test Strategy for “OpenCart” Ecommerce Website**

**Objective**

The objective is to validate the end-to-end functionality, usability, and performance of the ecommerce website, ensuring it meets both business and technical requirements.

**Scope**

**In Scope:**

* Customer workflows: search, browse, add to cart, checkout, payments
* Account registration and management
* Order management and tracking
* Integration with payment gateways
* Admin module and workflows
* Web and mobile site

**Out of Scope:**

* Physical fulfillment of orders
* 3rd party integrations not related to core functionality

**Focus Areas**

* Functional correctness of flows
* UI/navigation
* Performance: load, stress, and scalability
* Security: vulnerabilities, encryption
* Compatibility: browsers, devices, OS
* Usability: ease of use, accessibility

**Approach**

* Black box and white box testing techniques
* Automated test cases using Selenium and Appium
* Exploratory testing for key workflows
* Load testing with JMeter for at least 1000 concurrent users
* Security testing for OWASP Top 10 vulnerabilities
* Cross-browser compatibility testing on IE, Chrome, Firefox
* Ease of use evaluation with at least 10 end users

**Deliverables**

* Functional test cases and reports
* Performance test scripts and results
* Security vulnerabilities report
* User acceptance testing report
* Test coverage and defect reports
* Automation regression suite

**Team & Schedule**

Testing team of 5 members needed for a 4-month testing effort.

**Proposed Schedule:**

* April: Functional and security testing
* May: Load/performance testing
* June: Compatibility testing, UAT
* July: Regression testing

**Entry & Exit Criteria**

* **Entry Criteria:** User stories to be tested must meet the defined 'Ready for Testing' criteria.
* **Exit Criteria:** Testing completes when all test cases execute with no critical defects outstanding.

**Risks**

* Delay in test environment availability
* Lack of access to third-party payment systems
* Complex workflows may require more time and resources

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