## Test Strategy for Ecommerce Website

Objective The objective is to test the end-to-end functionality, usability and performance of the ecommerce website and ensure it meets the business and technical requirements.

### Scope :-

- All 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 4 months testing effort Proposed schedule.

- April: Functional and security testing.

- May: Load/performance testing.

- June: Compatibility testing, UAT. - July: Regression testing.

### Entry & Exit Criteria User stories :-

- To be tested must meet the defined 'Ready for Testing' 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.