## **Test Strategy for Ecommerce Website**

Objective The objective is to test the end-to-end functionality, usability and performance of the e-commerce 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 the 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, and 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**

* A team of 5 members is needed for 4 months of 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, it 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