## **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**

#### **In scope:**

1. All customer workflows - search, browse, add to cart, checkout, payments
2. Account registration and management
3. Order management and tracking
4. Integration with payment gateways
5. Admin module and workflows
6. Web and mobile site Out of scope:
7. Physical fulfillment of orders
8. 3rd party integrations not related to core functionality

### **Focus Areas**

1. Functional correctness of flows
2. UI/navigation
3. Performance
4. Load, stress and scalability
5. Security - vulnerabilities, encryption
6. Compatibility
7. Browsers, devices, OS
8. Usability - ease of use, accessibility

### **Approach**

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

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### **Deliverables**

1. Functional test cases and reports
2. Performance test scripts and results - Security vulnerabilities report
3. User acceptance testing report
4. Test coverage and defect reports
5. Automation regression suite

### **Team & Schedule Testing**

1. team of 5 members needed for 4 months testing effort Proposed schedule:
2. April: Functional and security testing
3. May: Load/performance testing
4. June: Compatibility testing, UAT - July: Regression testing

### **Entry & Exit Criteria User stories**

1. To be tested must meet the defined 'Ready for Testing' criteria.
2. Testing completes when all test cases execute with no critical defects outstanding.

### **Risks**

1. Delay in test environment availability
2. Lack of access to third party payment systems
3. Complex workflows may require more time and resources