

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:

- 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