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 2024: Functional and security testing

- May 2024: Load/performance testing

- June 2024: 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