*E-commerce Website Test Plan*

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**1. Introduction**

This document outlines the test plan for the development of a comprehensive and user-friendly e-commerce website. The plan aims to ensure all functionalities meet specifications, provide a seamless user experience, and contribute to a successful launch.

**2. Objectives**

* Verify compliance with functional and non-functional requirements.
* Identify and resolve defects before user exposure.
* Evaluate user experience and website usability.
* Ensure security and performance meet acceptable standards.
* Build confidence in the website's functionality and stability for launch.

**3. Scope**

This test plan covers all essential areas of the e-commerce website, including:

User Management: Registration, login, logout, password recovery, account management.

Product Catalog: Browsing, searching, filtering, product details, images, and specifications.

Shopping Cart: Adding/removing items, updating quantities, promo codes, cart functionality.

Checkout Process:Secure payment gateway integration, address management, order confirmation.

Order Management: Order tracking, history, returns and refunds.

Customer Support: Contact forms, feedback system, knowledge base.

Website Performance: Loading speed, responsiveness across devices, scalability.

Website Security:Data encryption, user authentication, vulnerability testing.

**4. Testing Approach**

A combination of testing approaches will be utilized:

* Functional Testing: Verify features and functionalities against requirements.
* Non-Functional Testing: Evaluate usability, performance, accessibility, and security.
* Compatibility Testing: Ensure website functions across browsers and devices.
* Regression Testing: Re-test previously fixed defects after new updates.
* Exploratory Testing: Ad-hoc testing to discover potential issues not covered by planned cases.

**5. Test Environment**

* Hardware and software configuration replicating the production environment.
* Simulated data sets for testing various scenarios.
* Access to all development and testing tools.

**6. Test Schedule and Resources**

* Timelines for each testing phase and defect resolution.
* Allocation of resources (testers, developers, QA leads) for testing execution.
* Tracking and reporting tools for documenting progress and results.

**7. Test Cases**

Detailed test cases will be developed for each functionality, covering positive and negative scenarios. These cases will be linked to specific requirements and documented in a test management tool.(we have used excel).

**8. Defect Management**

* A clearly defined process for logging, prioritizing, and resolving defects.
* Effective communication between testers and developers during defect resolution.
* Regular reporting on identified and resolved defects.

**9. Test Reporting**

* Comprehensive reports summarizing test results, findings, and recommendations.
* Clear documentation of defects and resolution status.
* Reports distributed to stakeholders for informed decision-making.