# **Test Plan for Demoblaze E-commerce Website**

**TABLE OF CONTENTS:**

1. **Overview**
2. **Testing Scope**

* Functional Testing
* UI/UX Testing
* Compatibility Testing
* Performance Testing
* Security Testing

1. **Objectives**
2. **Testing Methodology**
3. **Test Scenarios**

* Login Functionality
* Cart Functionality
* Checkout Process

1. **Test Environment**
2. **Entry & Exit Criteria**

* Entry Criteria
* Exit Criteria

1. **Test Deliverables**
2. **Potential Risks & Mitigation**
3. **Approval & Sign-Off**
4. **Overview**

This test plan outlines the testing approach for the Demoblaze e-commerce website, ensuring that the Login, Cart, and Checkout functionalities perform as expected under various conditions.

1. **Testing Scope**

* Functional testing to validate core features.
* UI/UX testing for user-friendly navigation and responsiveness.
* Compatibility testing across different browsers and devices.
* Performance testing for system stability and load capacity.
* Security testing to identify vulnerabilities in authentication and transactions.

1. **Objectives**

* Verify successful login and session management.
* Ensure cart operations (adding/removing items) function correctly.
* Validate checkout workflow, including payment processing.
* Identify and handle errors efficiently.
* Ensure consistency across different devices and platforms.

1. **Testing Methodology**

* Combination of manual and automated testing.
* Black-box testing for functional validation.
* Exploratory testing for UI and usability feedback.
* Regression testing after feature updates or bug fixes.

1. **Test Scenarios**

**Login Functionality:**

* Verify login with valid credentials.
* Check invalid login attempts display proper error messages.
* Ensure session timeout functions correctly.
* Validate password reset functionality.

**Cart Functionality:**

* Add multiple products to the cart and verify persistence.
* Remove products and ensure correct updates.
* Verify cart retains products after login/logout.
* Check price calculations and total amounts.

**Checkout Process:**

* Proceed with checkout using valid payment details.
* Validate order confirmation and receipt generation.
* Test error handling for declined transactions.
* Ensure user receives order tracking details.

1. **Test Environment**

* **Browsers:** Chrome, Firefox, Edge, Safari.
* **Devices:** Desktop, Mobile, Tablet.
* **Test Data:** Sample user credentials, product inventory, and mock payment details.

1. **Entry & Exit Criteria** **Entry Criteria:**

* Test environment is configured and accessible.
* Test cases are reviewed and approved.
* Development team has delivered stable builds.

**Exit Criteria:**

* All critical test cases executed successfully.
* No major defects remain unresolved.
* Final test reports are documented and shared.

1. **Test Deliverables**

* Test strategy and test plan document.
* Detailed test cases and automation scripts.
* Defect logs and test execution reports.
* Final test summary report.

1. **Potential Risks & Mitigation**

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| Unexpected UI changes impacting test scripts. | Maintain flexible and modular automation scripts. |
| Payment gateway downtime. | Use sandbox environments for payment testing. |
| Performance bottlenecks under high load. | Conduct load testing and optimize database queries. |

1. **Approval & Sign-Off**

The test plan will be reviewed by key stakeholders and finalized before testing execution begins.