### **TEST PLAN**

Project Name: Demo Blaze

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### **Introduction**

The aim of this document is to give an overview of the testing approach, strategies, and scope for the Demo Blaze an e-commerce application. This document includes details like scope of the project, objectives, test schedule and resource allocations, test deliverables and reports.

AUT: https://www.demoblaze.com/

### **1. Test Plan Overview**

* **Project Name**: Demo Blaze
* **Test Lead**: [Vikas Sahani]
* **Date**: [01/03/2025]
* **Prepared by**: [Sahil Khan & Vikas Sahani]

### **2. Objective**

* Ensure the website works as expected across all features and user journeys (e.g., product search, product details, shopping cart, checkout & payment, user authentication, order history ).
* Verify security, performance, and usability of the website.
* Validate compatibility across devices and browsers.

**3. Testable features:**

Register Login

Forgot password

Search

Advanced search

Monitors

Computers

Electronics

### **4. Test Scope**

* **In-Scope**:
  + User registration & login functionality
  + Product browsing, searching, and filters
  + Product details, ratings, and reviews
  + Shopping cart and checkout process
  + Payment gateway integration
  + Mobile and desktop compatibility
  + Security testing (SSL, encryption)
  + Performance testing (loading speed)
* **Out-of-Scope**:
  + Backend/Database integration
  + Third-party services (unless specified)

### **5. Test Strategy**

* **Types of Testing**:
  + **Functional Testing**: Verifying core website features (product browsing, cart, checkout)
  + **Usability Testing**: Ensuring ease of navigation and user experience
  + **Security Testing**: SSL/TLS, data encryption, account security
  + **Performance Testing**: Load testing, page speed optimization
  + **Compatibility Testing**: Cross-browser and cross-device testing
  + **Regression Testing**: Ensuring new changes don’t affect existing functionality

### **6. Test Approach**

* **Manual Testing**: For UI/UX and functional testing (e.g., testing the checkout process).
* **Automated Testing**: For regression and performance tests (e.g., load testing, smoke tests).
* **Exploratory Testing**: By testers to uncover any unexpected issues in the user flow.

### **7. Test Environment**

* **Browsers**: Chrome, Firefox, Safari, Edge
* **Devices**: Desktop (Windows, macOS), Mobile (iOS, Android)
* **Operating Systems**: Windows, macOS, iOS, Android
* **Tools**: Selenium (for automation), JMeter (for load testing), BrowserStack (for cross-browser testing, TestNG)

### **8. Test Schedule**

* **Test Planning**: [28-feb-25] to [28-feb-25]
* **Test Execution**: [01-Mar-25] to [01-Mar-25]
* **Bug Fixing and Re-testing**: [01-Mar-25] to [02-Mar-25]

### **9. Defect Reporting**

* **Defect Severity Levels**:
  + **Critical**: Major functionality broken (e.g., cannot add products to cart)
  + **High**: Non-critical functionality broken (e.g., UI elements misaligned)
  + **Medium**: Minor issues (e.g., spelling errors, low-priority bugs)
  + **Low**: Cosmetic issues (e.g., UI color mismatch)
* **Defect Tracking Tool**: JIRA, Trello, etc.

### **10. Risk Assessment**

* **Potential Risks**:
  + Changes in website during testing
  + Time constraints for testing on multiple devices/browsers
  + Integration issues with third-party services
* **Mitigation Plans**:
  + Regular updates from developers
  + Prioritize high-risk areas first
  + Use automated testing for repetitive tasks

### **11. Test Closure**

* **Criteria for Completion**:
  + All critical tests passed
  + No high/medium severity bugs pending
  + Full report generated and shared with stakeholders
* **Final Deliverables**:
  + Test Report
  + Defect Logs
  + Test Case Results