Test Plan and Test Strategy Document

Project: Demo Web Shop  
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# 1. Test Strategy

The Test Strategy outlines the high-level approach and objectives of testing for the Demo Web Shop application.  
  
1.1 Objectives:  
- Validate critical user journeys (registration, product search, add to cart, checkout).  
- Ensure cross-browser and device compatibility.  
- Maintain a high level of test automation and coverage.  
  
1.2 Scope:  
- In Scope: Functional testing, UI/UX, regression, performance, security.  
- Out of Scope: Admin backend, payment gateway with real cards.  
  
1.3 Test Types:  
- Functional Testing (manual + automated)  
- Regression Testing  
- Usability Testing  
- Performance Testing  
- Security Testing  
- Compatibility Testing  
  
1.4 Testing Tools:  
- Selenium/Cypress, TestNG, Postman, JMeter, Tosca  
  
1.5 Risk-based Approach:  
- Prioritize features based on usage and impact (e.g., checkout, cart).  
  
1.6 Automation Strategy:  
- Automate core user flows with reusable scripts in Cypress or Tosca.

# 2. Test Plan

2.1 Introduction:  
This document provides the test plan for Demo Web Shop covering testing scope, schedule, resources, and deliverables.  
  
2.2 Test Scope:  
In Scope:  
- User registration/login  
- Product catalog and search  
- Cart/wishlist functionality  
- Checkout and order confirmation  
- Email notifications  
  
Out of Scope:  
- Admin panel  
- Backend data processing  
  
2.3 Test Objectives:  
- Ensure functionality works as per requirements.  
- Identify and log defects.  
- Ensure no regression occurs in existing functionality.  
  
2.4 Test Items:  
- Registration/Login, Product Catalog, Cart, Checkout, Order History, Emails  
  
2.5 Test Types:  
- Manual, Automated, Performance, Security, Compatibility  
  
2.6 Test Environment:  
- Application URL: https://demowebshop.tricentis.com/  
- Browsers: Chrome, Firefox, Edge  
- Test Data: Dummy users, addresses, orders  
  
2.7 Roles and Responsibilities:  
- QA Lead: Test planning, reporting  
- QA Team: Manual & automation execution  
- Developers: Bug fixing and support  
- Product Owner: Review and sign-off  
  
2.8 Deliverables:  
- Test Plan, Test Cases, RTM, Execution Reports, Defect Logs, Summary Report  
  
2.9 Entry and Exit Criteria:  
Entry:  
- Requirements ready, test data prepared  
  
Exit:  
- 95% pass rate, all critical bugs fixed  
  
2.10 Test Schedule (Waterfall):  
- Planning: Aug 6 - 7  
- Design: Aug 8 - 10  
- Execution: Aug 11 - 17  
- Closure: Aug 18 - 20  
  
2.11 Test Schedule (Agile):  
- Sprint 1: Registration, Login  
- Sprint 2: Catalog, Cart  
- Sprint 3: Checkout, History  
  
2.12 Risks and Mitigation:  
- Site changes: Frequent automation updates  
- Payment issues: Use test stubs  
  
2.13 Metrics:  
- Coverage %, Defect Density, Automation %, Execution Rate  
  
2.14 Approvals:  
- QA Lead, Dev Lead, Product Owner