https://tutorialsninja.com/demo/

Project Code: 8192

Project Name: Tutorials Ninja

Test Plan Tutorials Ninja

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➢ Introduction

The Tutorials Ninja demo website is created to demonstrate e-commerce features, such as product browsing, cart management, and the checkout process. This test plan outlines the strategy and approach to validate the website's functionalities, ensuring a smooth user experience and compliance with quality standards.

➢ Objectives

- Validate the core functionalities of the Tutorials Ninja demo website.
- Ensure the website is user-friendly and operates as intended across supported devices and browsers.
- Identify and document defects, usability issues, and any deviations from requirements.
- Ensure that the system meets defined performance and security benchmarks.

➢ Scope

The scope of this test plan includes:

- Manual testing of key features such as registration, login, product browsing, cart management, and checkout processes.
- Verification of account management features, including updating user details.
- Testing promo code applications, multi-currency support, and error handling.
- Ensuring compatibility across major browsers and devices.
- Validation of security features to prevent vulnerabilities.

➢ Out of Scope:

- Load testing and performance benchmarking beyond standard requirements.

- Testing integrations with external third-party systems not implemented in the demo.

➢ Testable Features

The following features will be tested:

- Functional: Navigation, search functionality, shopping cart, checkout, and account management.
- Performance: Page load times and responsiveness under load.
- Security: User authentication, data encryption, and protection against common vulnerabilities.
- Usability: Intuitive user interface and ease of navigation.

Expanded Key Functionalities to Focus:

- User Registration and Login
- Product Browsing and Display
- Search Functionality
- Cart Management
- Checkout Process
- Order History
- Account Management (Update Details)
- Promo Codes and Discounts
- Multi-currency Support
- Mobile and Cross-browser Compatibility
- Security Features
- Error Handling

➢ Testing Approach

- **Test Levels**: Unit Testing, Integration Testing, System Testing, and User Acceptance Testing (UAT).
- **Test Types**: Functional, Performance, Security, and Usability Testing.

- **Techniques**: Manual and automated testing.
- **Test Environment**: Simulated production environment using the latest application build and relevant test data.

➢ Roles/Responsibilities

- **Test Manager**: Oversees the testing process, manages resources and communicates progress.
- **Test Engineers**: Design and execute test cases, log defects, and validate fixes.
- **Developers**: Assist in reproducing issues and implementing fixes.
- **Product Owner**: Provides input on requirements and verifies test outcomes during UAT.

➢ Test Schedule

Task	Start Date	End Date
Test Planning	2025-01-17	2025-01-17
Test Case Design	2025-01-17	2025-01-17
Test Environment Setup	2025-01-17	2025-01-17
Test Execution	2025-01-18	2025-01-18
Defect Fix and Retesting	2025-01-19	2025-02-19

➢ Test Deliverables

- **Test Plan Document:** Defines the scope, objectives, and approach.
- **Test Cases:** Detailed test cases for each feature.
- **Test Logs:** Records of tests executed, including results and issues encountered.
- **Bug Reports:** Detailed reports of identified defects with severity levels.
- **Test Summary Report:** A final report summarizing testing activities, results, and recommendations.

➢ Entry and Exit Criteria

➢ Entry Criteria

The entry criteria define the conditions that must be met before starting the testing process:

1. **Requirement Finalization:**
    - All functional and non-functional requirements of the product page must be documented and finalized.
    - This ensures that there is no ambiguity about the features being tested, such as product information display, buttons, and navigation functionalities.
2. **Test Plan:**
    - The test plan document must be prepared and approved.
    - It outlines the scope, approach, resources, roles, tools, and schedule to ensure organized testing.
3. **Availability of Test Artifacts:**
    - All necessary documents and inputs, such as requirements documents, wireframes, test data, and mock-ups, must be made available for reference during testing.
    - This helps testers validate the product page against the expected behaviour.
4. **Environment Readiness:**
    - The test environment (test server or staging environment) must be stable and configured to support testing.
    - The product page URL should be accessible, and the environment should mimic the production environment.
5. **Code Deployment:**
    - The product page code must be successfully deployed on the testing environment.
    - Any incomplete or unstable builds should not be provided for testing.
6. **Tool Accessibility:**
    - Testing tools, such as bug tracking tools (e.g., JIRA) and test management tools, must be accessible.
    - Tools for cross-browser testing and performance monitoring should also be available.
7. **Availability of Test Team:**
    - The test team members must be available and assigned roles to execute the planned test cases.

- Any skill gaps should be addressed with proper guidance or training.

8. **Unit Testing Completion:**
   - Developers must complete unit testing to ensure that individual components of the product page are working correctly.
   - This minimizes the risk of discovering trivial bugs during system testing.

➢ Exit Criteria

The exit criteria define the conditions that must be satisfied to consider the testing phase complete:

1. **Test Execution:**
   - All planned test cases should be executed.
   - This includes functional, compatibility, exploratory, and basic performance testing for the product page.
2. **Defect Resolution:**
   - All critical and major defects identified during testing must be fixed and verified.
   - Minor defects can be deferred with proper documentation and stakeholder approval.
3. **Test Coverage:**
   - Ensure that the testing covers all product page functionalities, including UI, responsiveness, and interactive elements.
   - A high percentage of test case coverage (e.g., 95%+) should be achieved.
4. **UAT Completion:**
   - User Acceptance Testing (UAT) must be completed successfully.
   - This ensures the product page meets end-user expectations and is ready for release.
5. **Performance Metrics Met:**
   - The product page should meet performance criteria, such as page load speed, responsiveness, and smooth functionality.
   - Tools like Page Speed Insights can help validate this.
6. **Documentation Delivery:**

- All testing-related documents, including test cases, defect reports, execution logs, and a test summary report, must be delivered to stakeholders.

7. **Regression Testing:**
   - Regression testing must be performed to ensure that any new changes or bug fixes do not impact existing functionalities.
8. **Approval from Stakeholder:**
   - Final approval must be obtained from stakeholders, such as the Product Manager or client, to confirm that testing is complete, and the product page is ready for deployment.

➢ Tools

- **Test Management Tool:** Jira or TestRail to track test cases and defects.
- **Bug Tracking Tool:** Jira for defect management.
  - **Automation Tool**: Selenium
- **Cross-browser Testing Tools:** Browser Stack or Sauce Labs.
  - **Google Sheet**
  - **Google doc**
  - **X Mind Map**

➢ Risks & Mitigation

- **Risk 1:** Limited browser compatibility.
  - **Mitigation:** Ensure compatibility testing is thorough across major browsers and devices.
- **Risk 2:** Delays in feature delivery.
  - **Mitigation:** Establish clear communication with the development team to track progress and prioritize features for testing.
- **Risk 3:** Incomplete test coverage.
  - **Mitigation:** Review test cases regularly to ensure all critical features are covered, including edge cases.

➢ Approvals

- **Test Plan Approval:** The test plan needs to be reviewed and approved by the QA lead, project manager, and relevant stakeholders before execution.
- **Test Case Approval:** The development team should review and approve test cases to ensure alignment with requirements.