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| **TEST PLAN**  **Project Name –** [**Qafox.com**](https://tutorialsninja.com/demo/index.php?route=common/home) |
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| **Introduction** |
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**Purpose**: This test plan outlines the approach for testing the Tutorials Ninja Demo site, covering the objectives, scope, testable features, and responsibilities.

**Description**: Tutorials Ninja Demo is an e-commerce platform allowing users to browse, search, and purchase products. The test plan ensures that critical site functionalities work as expected and provide a good user experience.

| **Objectives** |
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* Validate core functionalities such as account creation, login, product search, shopping cart, and checkout.
* Verify user interface consistency, usability, and responsiveness across various devices and browsers.
* Test system performance, load handling, and page load times.
* Identify potential issues or defects to enhance overall user experience and security.

| **Scope** |
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* User account management (registration, login, password recovery).
* Product browsing, searching, and filtering.
* Shopping cart functionalities (adding/removing items, updating quantities).
* Checkout process, including payment and order confirmation.
* User interface (UI) responsiveness, usability, and overall design consistency.

| **Testable Features** |
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* User Authentication: Registration, Login, Logout, and Password Recovery.
* Product Search and Browsing: Search functionality, product listings, and product details page.
* Cart Operations: Add to Cart, Update Quantity, Remove Item.
* Checkout Process: Address input, payment options, and order summary.
* Order Management: Order history and status tracking.
* UI Consistency and Responsiveness: Cross-device and cross-browser consistency.
* Security: Input validation, prevention of SQL injection, and secure payment handling.

| **Testing Approach** |
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* Functional Testing: Ensure each feature meets expected outcomes (e.g., registration, login, product purchase).
* Usability Testing: Validate the overall user experience, ease of navigation, and intuitiveness.
* UI Testing: Ensure interface consistency in terms of design, fonts, colors, and layout.
* Compatibility Testing: Check responsiveness on different devices and compatibility with major browsers (Chrome, Firefox, Safari, Edge).
* Performance Testing: Test page load times, especially for high-traffic sections like the home page and checkout.
* Security Testing: Validate input fields for vulnerability to SQL injection, XSS, and ensure secure data handling.

| **Roles and Responsibilities** |
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* **Test Manager**: Plan and manage the test execution, track progress, and report to stakeholders.
* **Test Engineers**: Execute test cases, document results, log defects, and validate fixes.
* **Automation Engineer**: Develop and execute automated test scripts for regression.
* **Business Analyst**: Define and clarify functional requirements for accurate testing.
* **Product Owner**: Provide requirements, approve test plan, and review test results

| **Test Schedule** |
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* **Planning**: 1 week
* **Test Case Design**: 2 weeks
* **Test Execution**: 2 weeks
* **Defect Logging and Retesting**: Ongoing during execution
* **Regression Testing**: 1 week
* **Completion and Sign-off**: End of 6th week

| **Test Deliverables** |
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* **Test Plan Document**
* **Test Cases in Google Sheets**
* **Test Execution Report**
* **Defect Logs and Reports**
* **Final Test Summary Report**

| **Entry & Exit Criteria** |
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**Entry Criteria**:

* All necessary test environments are set up and accessible.
* All required documentation (requirements and design documents) is complete and approved.
* Test cases are reviewed and approved.

**Exit Criteria**:

* All high and critical severity defects are resolved and closed.
* Test case execution is complete with a pass rate of 95% or above.
* Regression testing is completed with no major issues.
* Test summary report is reviewed and approved.

| **Tools** |
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* **Test Case Management**: Google Sheets/Docs for documenting test cases and maintaining test records.
* **Defect Tracking**: Jira for tracking and managing defects throughout the testing lifecycle.
* **Automation Testing**: Cypress for automating end-to-end tests and regression testing to ensure functionality.
* **Browser Compatibility Testing**: BrowserStack to verify compatibility across various browsers and devices.

| **Risks and Mitigation Plans** |
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| **Risk** | **Mitigation Plan** |
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| Limited test coverage on third-party integrations due to demo constraints | Focus on functional testing for all available features and simulate integrations where possible. |
| Unavailability of test environments or necessary documentation. | Communicate with stakeholders early and request documentation in advance. |
| Browser compatibility issues. | Perform early compatibility testing across major browsers and devices. |