### ****Test Plan: tutorialsninja.com Website****

#### ****1. Introduction****

This test plan is to ensure that the core features of the **tutorials ninja** e-commerce website function as intended. The features to be tested are the Login, Logout, Forgot Password, Add to Cart, and Checkout processes.

#### ****2. Objective****

The objective is to verify that the following functionalities work as expected:

* User Authentication (Login, Logout, Forgot Password)
* Shopping Cart (Add to Cart)
* Checkout Process

#### ****3. Scope****

The scope includes the testing of:

* Login and Logout functionality
* Password recovery using Forgot Password
* Adding items to the shopping cart
* Completing the checkout process

#### ****4. Features to be Tested****

##### **4.1 Login**

* Verify the login functionality with valid credentials.
* Test the login with invalid credentials and verify that appropriate error messages are displayed.
* Ensure that after login, the user is redirected to the correct landing page (e.g., account dashboard or homepage).
* Verify that login credentials are case-sensitive.
* Test login functionality across multiple browsers and devices.

##### **4.2 Logout**

* Verify that the user can successfully log out of the system.
* Ensure that after logout, the user is redirected to the homepage or login page.
* Confirm that the user cannot access restricted pages (e.g., account details, order history) after logging out.

##### **4.3 Forgot Password**

* Verify that the Forgot Password link is accessible from the login page.
* Ensure that users can enter their registered email to receive a password reset link.
* Test that a valid email address receives the reset link and that the link is functional.
* Verify that the password reset process works (the user can reset their password and log in with the new password).
* Test the functionality with an invalid or non-registered email to ensure an appropriate error message is displayed.

##### **4.4 Add to Cart**

* Verify that users can successfully add a product to the shopping cart.
* Test adding multiple items to the cart and verify that the total price is updated correctly.
* Ensure that users can update product quantities and remove items from the cart.
* Check the cart's persistence across pages (products should remain in the cart when navigating between pages).
* Test the Add to Cart functionality for logged-in users and guests.

##### **4.5 Checkout**

* Verify that users can proceed from the shopping cart to checkout.
* Ensure that all necessary fields (e.g., shipping address, payment information) are required and validated correctly.
* Test successful order placement using different payment methods (e.g., credit card, PayPal).
* Verify that an order confirmation email is sent to the user after successful checkout.
* Check that after successful checkout, the user is directed to an order confirmation page.
* Test the checkout process for both logged-in users and guest users.

#### ****5. Test Strategy****

* **Testing Types**:
  + **Functional Testing**: To ensure the above features work correctly.
  + **Usability Testing**: To ensure that the login, cart, and checkout flows are easy to use.
  + **Security Testing**: To ensure that sensitive data like login credentials and payment information are protected.
  + **Cross-Browser Testing**: Test the features on different browsers and devices (desktop, tablet, mobile).

#### ****6. Test Environment****

* **Operating Systems**: Windows, macOS, iOS, Android.
* **Browsers**: Google Chrome, Mozilla Firefox, Safari, Microsoft Edge.
* **Devices**: Desktop, mobile, tablet.

#### ****7. Test Data****

* Test user accounts with valid and invalid credentials.
* Test data for product selection (e.g., different categories, product IDs).
* Payment information (test credit card data).

#### ****8. Test Deliverables****

* Test Cases Document.
* Test Execution Report.
* Defect Report (if applicable).
* Final Test Summary Report.

#### ****9. Test Schedule****

* **Test Case Preparation**: Start Date: [Start Date] - End Date: [End Date]
* **Test Execution**: Start Date: [Start Date] - End Date: [End Date]
* **Reporting**: [Date]

#### ****10. Risks and Contingencies****

* Potential delays in receiving test data for payment gateways.
* Risk of feature changes during development, affecting test cases.