# TEST PLAN
# ON
# ECOMMERCE WEBSITE
# "TUTORIALS NINJA"

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# 1.  Purpose of This Document

This test plan is designed to verify that the **"Tutorials Ninja"** e-commerce website operates as intended and satisfies the requirements for a seamless shopping experience. The primary objective is to ensure that functionalities of the application align with the specified requirements and are free from defects, providing users with an efficient and reliable platform for online shopping.

# 2.  Application Overview

Tutorials Ninja is an ecommerce website. It is commonly used for practice and demonstration of web automation testing with tools like Selenium, as it provides a demo online shopping platform with various functionalities such as cart management, checkout, and user registration.

# 3.  Feature Overview:

## 3.1 Register Account

The "Register Account" feature enables new users to create an account on the website. The registration form requires users to fill in several mandatory fields, including First Name, Last Name, Email, Telephone, Password, and Confirm Password. Additionally, the form includes radio buttons for confirming subscription preferences, a checkbox to agree to terms and conditions, and a Continue button to submit the registration.

The Email field must be unique, meaning each email address can only be used for a single account and cannot be reused for multiple logins.

## 3.2 Add To Cart

The "Add to Cart" feature allows users to select and add products to their shopping cart while browsing the website. This feature enables users to easily choose products they wish to purchase and review them before proceeding to checkout. Key components of the "Add to Cart" feature include: Quantity of product update, Add to Cart Button or Icon, Confirmation Message.

## 3.3 Search products

The "Search product" feature allows users to quickly find products on the website by entering keywords, product names, or categories into a search bar. This feature enhances user experience by enabling efficient navigation and helping users locate specific products with ease. Key components of the "Search product" feature include: Search Bar, Auto-Suggestions, Search Results.

## 3.4 Cart

The "Cart" feature provides users with a summary of the products they have selected for purchase on the website. It allows users to review, modify, or remove products before proceeding to checkout. The cart ensures a smooth transition from product selection to completing a purchase.

# 4.    Test Objective

The test objectives are as follows:
- ➢ Verify that the core functionalities are functioning as per the requirements.
- ➢ Confirm the usability and performance of the application

# 5.    Testing Scope

The testing scopes are as follows:

## 5.1 Register Account

5.1.1 Fill Form

## 5.2 Add To Cart

5.2.1 Add a product from Product page
5.2.2 Add a product after searching a product
5.2.3 Update the quantity of product from Product page

## 5.3 Search products

5.3.1 Search a product
5.3.2 Search Results
5.3.3 Search Suggestions
5.3.4 Search Results Filter

## 5.4 Cart

5.4.1 Update the quantity of product
5.4.2 Remove the product from cart

# 6. Test Scenarios

## 6.1 Register Account Test Scenarios

### 6.1.1 Positive Test Scenarios

1. Verify that the system allows user registration with all valid data in the mandatory fields.
2. Test if the system successfully handles registration with a valid email containing special characters (e.g., john.doe+100@gmail.com).
3. Check if the system allows user registration when a user selects a subscription preference (Yes/No) and clicks "Continue" successfully.

### 6.1.2 Negative Test Scenarios

1. Check the system behavior when the user inputs an already registered email or in incorrect format.
2. Check the system behavior when the user inputs a password shorter than the minimum required length(4).
3. Check the system behavior when the user inputs a password in the Confirm Password section which is different from Password section.
4. Check the system behavior when the user does not tick the confirmation checkbox.
5. Check the system behavior when the user does not input a mandatory field.
6. Check if the system prevents submission when the user inputs an invalid phone number format (e.g., alphabets or special characters).

## 6.2 Add To Cart Test Scenarios

### 6.2.1 Positive Test Scenarios

1. Verify the product added to cart from the home page is successfully added to cart when the user is logged in.
2. Verify the product added to cart from the product page is successfully added to cart when the user is logged in.
3. Verify the product added to cart from the search results is successfully added to cart when the user is logged in.
4. Verify the quantity of product is updated when adding to cart.

### 6.2.2 Negative Test Scenarios

1. Check the system behavior when the user adds a product to cart from the home page without logging in.
2. Check the system behavior when the user adds a product to cart from the product page without logging in.
3. Check the system behavior when the user adds a product to cart after searching the product without logging in.

## 6.3 Search Product Test Scenarios

### 6.3.1 Positive Test Scenarios

1. Verify the search suggestions are shown when a valid keyword is input.
2. Verify the search results are shown when a valid keyword is input.
3. Verify that the search suggestions are relevant and display products related to the keyword input by the user.
4. Check if the search results show the correct products based on the search keyword.
5. Verify the system behavior when users perform a search with a valid keyword, followed by selecting a product from the suggestions. The selected product should open on the product details page.
6. Verify the search results are as per the filter.

### 6.3.2 Negative Test Scenarios

1. Check the system behavior when an invalid keyword is input.
2. Test the behavior when the search keyword is empty or null.
3. Check the system's response when the user inputs special characters, numbers, or random symbols.
4. Check the behavior when a search is performed with incomplete keywords or partial words.
5. Check how the system handles extremely long search keywords.

## 6.4 Cart Test Scenarios

### 6.4.1 Positive Test Scenarios

1. Verify that the cart persists across sessions (e.g., when a user logs out and logs back in, the cart should still contain the previously added items).
2. Verify the user can update the quantity of items in the cart.
3. Verify the user can remove items from the cart.
4. Verify the user can apply valid coupon code.
5. Verify the user can apply valid gift codes.
6. Verify that when the item is clicked it navigates to the Product page.
7. Verify that items in the cart remain when the user navigates between different pages or categories.
8. Verify that items remain in the cart after a user refreshes the page.

9. Verify that if the user adds items to the cart and then logs in from a different device, the cart should reflect those items (cross-device persistence).

### 6.4.2 Negative Test Scenarios

1. Check the system behavior when the user input invalid(alphabets, special characters) in the quantity module.
2. Check system behavior when the user input non existing coupon code.
3. Check system behavior when the user input non existing gift code.
4. Check the system behavior when the user tries to checkout when the product in cart is out of stock.
5. Verify that the cart is not opened or accessible when the user logged out.

# 7.   Time Estimation

The table below shows the time estimation for testing of OrangeHRM:

| Activity | Time (days) |
|---|---|
| Register Account | 1 |
| Add To Cart | 1 |
| Search products | 1 |
| Cart | 2 |

# 8.   Test Approach By

| QA Team | Shristi Shrestha, Aayush Maharjan |
|---|---|
| QA Lead | Shrijana Tandukar |

# 9.   Test Environment and Tools

The hardware and software requirements for testing OrangeHRM application are listed in the table below:

| Hardware requirements | Software Requirements |
|---|---|
| **RAM:** 4 GB | **Operating System:** Windows 10 / macOS |

| | |
|---|---|
| **Processor:** Dual-Core | **Web Browsers:**<br><br>● Google Chrome<br>● Mozilla Firefox<br>● Microsoft Edge<br>● Safari (for macOS users) |
| **Storage:** 20 GB | **Application Version:** TutorialsNinja v1.1 |

# 10. Exit Criteria

1. All test cases have been executed.
2. Minimum 95% of high-priority test cases have passed.
3. Complete functional coverage has been achieved.
4. All high-priority defects have been identified and fixed.
5. All showstopper or blocker defects have been resolved, and no critical defects remain open.
6. Re-testing of high-priority defects is completed, and corresponding regression scenarios are successfully executed.
7. All changes and requirements are thoroughly documented.

# 11. Test Cases

testCases_ecommerce_website_tutorialsNinja