

# TEST PLAN

Project Name : Tutorials Ninja  
E-commerce website



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Date : 17 jan 2025

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## Introduction

The aim of this document is to give an overview of the testing approach, strategies, and scope for the Tutorial Ninja of e-commerce website. This document includes details like scope of the project, objectives, test schedule and resource allocations, test deliverables and reports.

An eCommerce platform typically involves complex systems such as online shopping carts, payment gateways, product catalogs, order management systems, and customer profile it is essential to plan organize, and execute through testing to defect bugs, ensure security, and optimize performance the test plan helps ensure the platform operates as expected under various conditions, meets user expectations and complies with industry standards

AUT : <https://tutorialsninja.com/demo/>

## Objectives

The primary goal is to ensure that the eCommerce application functions correctly, with no issues during user interactions such as browsing products, adding items to the cart, processing payments, or completing purchases. The goal is to perform both manual and automated testing to ensure the platform is fully functional and provides a seamless user experience.

## Scope

This test plan covers Functional testing, Performance Testing, Usability Testing and compatibility testing of the Tutorial Ninja web application across different browsers. To check both manual and automation testing using selenium ( page object model ) integrated with cucumber framework.

- **Usability Testing:**

Ensure the platform is user-friendly, intuitive, and efficient for browsing, managing the cart, and completing checkout.

- **Functionality Testing:**

Test all core features including registration, login, product Usability browsing, cart management, and checkout.

- **Performance Testing:**

Evaluate the platform under high traffic (simulate sales events) and test for load times, stability, and scalability.

- **Security Testing:**

Conduct a full security audit to identify any vulnerabilities and ensure data protection.

- **Compatibility Testing:**

Test across multiple devices and browsers to ensure consistency and accessibility.

### **Testable Features :**

- Register
- Login
- Forgot password
- New User
- Search
- Advanced Search
- Best sellers
- Mobiles
- Today's Deals
- Electronics
- Prime
- Fashion
- Home & kitchen
- Nykaa Pay
- Gift Ideas
- Books
- Car & Motorbike
- Home Improvement
- Sports, Fitness & Outdoors

- Coupons
- Toys & Games
- Gift Cards
- Filter
- Wish list
- Add to cart
- Payment Processing
- Account Information
- Order Information
- Multi-currency Support
- Mobile and Cross-browser Compatibility
- Security Features
- Error Handling

## **Testing Approach :**

### **1) Testing Types**

- Functional Testing
- Compatibility Testing

### **2) Testing Methodologies**

- Black-box Testing
- White-box Testing
- Regression Testing
- User Acceptance Testing (UAT)

### **3) Testing Environment**

- UAT
- Pre-Prod
- Maven
- TestNG

### **4) Operating System**

- Windows 12 and above
- Browsers: [chrome and firefox]
- Testing Tools : [ selenium, Postman, Jira, zephyr, microsoft teams, salesforce.]



## Roles/Responsibilities

Name	Role	Responsibilities
Pooja Yadav	Test Manager	<ol style="list-style-type: none"><li>1. Manage budget and resources.</li><li>2. Allocating additional support resources.</li><li>3. Assess and prioritize project risks/tasks.</li><li>4. Monitoring project progress.</li><li>5. Resolve communication issues and conflicts effectively.</li></ol>
Taffazul Anasri	Test Lead	<ol style="list-style-type: none"><li>1. Develop test plans and strategies in alignment with project objectives and requirements.</li><li>2. Assign tasks, set priorities, and provide and support to team members.</li><li>3. Review test results and</li></ol>

		<p>provide feedback to team members.</p> <p>4. Monitor and manage risks throughout the testing I</p>
Prajyoti Suryawanshi	Test Engineer	<p>1. Write Test scenarios, Test cases Executing the Test cases.</p> <p>2. Performing root cause analysis to identify underlying issues.</p> <p>3. Defect tracking and reporting.</p>

## Test Schedule

Following is the test schedule for the project :

Task	Time Duration
Test Plan creation	17-01-2025
Test Scenario creation	17-01-2025
Test case creation	18-01-2025
Test Case Execution	18-01-2025
Summary Report Submission	19-01-2025

## Test Deliverables

The following are to be delivered to the client:

Test Plan	Outlines the testing approach, strategies, and scope for the Tutorial web application	Masai	17-01-2025
Deliverables	Description	Responsible Owner	Target Completion Date
Test Case	Test Cases created for both functional testing and compatibility testing	Masai	18-01-2025
Defect Reports	Detailed description of the defects identified in different versions of application.	Masai	18-01-2025

## **Entry and Exit Criteria**

The below are the entry and exit criteria for every phase of Software Testing life Cycle:

### **Requirement Analysis**

#### **Entry Criteria:**

Once the testing team receives the Requirements documents and use documents of the project. Includes what functions need to be tested and how the software should behave.

#### **Exit Criteria:**

The testing team should thoroughly explore and understand each requirement listed in the documents. Any doubts or uncertainties regarding the requirements should be addressed and clarified to ensure that the testing team has a clear understanding of what needs to be tested and how it should behave.

### **Test Planning**

#### **Entry Criteria:**

Testable Requirements derived from the given Requirements documents. Test Plan document includes the Test Strategy, which provides a high-level overview of how testing will be conducted.

#### **Exit Criteria:**

Test Plan is signed-off by the Client (Tutorial Ninja)

## **Test Designing**

### **Entry Criteria:**

The Test Plan document needs to be reviewed and approved by the client and then Test Plan Document is signed-off by the Client

### **Exit Criteria:**

Test Scenarios and Test Cases Documents are prepared, they need to be reviewed and signed-off by the client.

## **Test Execution**

### **Entry Criteria:**

Test Scenarios and Test Cases document needs to be reviewed and approved by the client and documents are signed-off by the Client. Application is ready for further Testing.

### **Exit Criteria:**

Test Case Reports, Defect Reports are ready

## **Test Closure**

### **Entry Criteria:**

Test Case Reports, Defect Reports are ready

**Exit Criteria:**

Test Summary Reports, it overviews the entire testing process.

## Tools

The following are the list of Tools we will be using in this Project:

- ❖ X mind map Tool
- ❖ Google Drive
- ❖ Google Sheet
- ❖ Google Docs
- ❖ Github
- ❖ Eclipse IDE
- ❖ Chrome
- ❖ Figma
- ❖ Trello/Jira (for defect tracking)



## Risks and Mitigation plans:

The following are the list of risk possible and the ways to mitigate them:

Risk	Mitigation plans
Lack of Automation Tester	Backup Resource Planning
No detailed Requirements available	Subject matter experts available for deep understanding of functionalities.

## Approvals

Our company will send different types of document for Client Approval like below:

- Test Plan
- Xmind Map
- Test scenarios
- Test Case
- Test Case Execution
- Bugs Report
- Summary Reports

Testing will only continue to the next steps once these approvals are done.