# 🛒 Tutorial Ninja – Test Plan 🛒

## 📌 Project Overview

# Project Name: Tutorial Ninja – E-commerce Website Application URL: [Tutorial Ninja Demo](https://tutorialsninja.com/demo/) Prepared By: Palak Mangal Date: 18 March 2025

## 🎯 Objectives

# The goal of this test plan is to ensure that Tutorial Ninja functions flawlessly for users, covering all core functionalities such as: ✔ Browsing products ✔ Adding items to the cart ✔ Processing payments ✔ Completing purchases

# This includes a mix of manual and automated testing using Selenium with Page Object Model (POM) and Cucumber framework to guarantee a smooth and secure user experience.

## 📍 Scope of Testing

# ✅ Functional Testing – Ensuring all features like login, cart management, and checkout work as expected. 🎨 Usability Testing – Checking if the platform is intuitive and easy to use. ⚡ Performance Testing – Simulating high traffic conditions to measure site speed and responsiveness. 🔐 Security Testing – Identifying vulnerabilities to protect user data and prevent cyber threats. 🌍 Compatibility Testing – Verifying that the website runs smoothly across different browsers and devices.

## 🛠 Test Approach

# 📌 Testing Methodologies: ✔ Black-box Testing ✔ Regression Testing ✔ User Acceptance Testing (UAT)

# 🖥 Execution Strategy: 🔹 Manual Testing – To explore and verify UI-related scenarios. 🔹 Automation Testing – Using Selenium WebDriver for regression testing.

# 🎯 Test Environment: 🖥 Operating System: Windows 10, 11 🌐 Browsers: Chrome, Firefox 🔧 Tools: Eclipse, Google Doc, Google Sheet, Github ⚙ Frameworks: JUnit, Cucumber, TestNG

## 💡 Key Features to be Tested

# ✔ User Management: Registration, Login, Forgot Password, Account Management ✔ Product Search: Basic & Advanced Search, Category Filtering ✔ Shopping & Orders: Wishlist, Add to Cart, Checkout, Payment Processing ✔ Promotions & Discounts: Coupons, Gift Cards ✔ Multi-Currency Support & Compatibility Testing

## 👥 Roles & Responsibilities

# 📌 Test Manager – Shiva sir

# 🎯 Resource allocation, risk management, and overall project monitoring.

# 📌 Test Lead – Palak Mangal 🎯 Defining test strategies, Writing and executing test cases, identifying defects, reviewing test execution.

## 📆 Test Execution Schedule

# 🗓 18 Mar 2025 – Test Plan Creation 🗓 19 Mar 2025 – Test Case Design & Execution 🗓 21 Mar 2025 – Defect Reporting & Test Summary Submission

## ✔ Entry & Exit Criteria

# 🚀 Entry Criteria:

# Requirement documents received and understood.

# Test environment set up and ready.

# 🏁 Exit Criteria:

# All planned test cases executed.

# Defects reported and resolved.

# Final Test Summary Report submitted.

## 🚨 Risks & Mitigation

# ⚠ Risk: Lack of automation testers. ✅ Mitigation: Backup resource planning and cross-training.

# ⚠ Risk: Unclear requirements. ✅ Mitigation: Close collaboration with subject matter experts.

# ⚠ Risk: Limited test data. ✅ Mitigation: Generating synthetic test data.

## 📜 Test Deliverables

# 📌 Test Plan – Defines strategies and scope. 📌 Test Cases – Step-by-step test execution scenarios. 📌 Defect Reports – Logs of identified issues. 📌 Test Summary Report – Overview of testing execution and outcomes.

## ✅ Approvals & Sign-off

# Once the Test Plan, Test Cases, Execution Reports, and Summary Reports are approved, the testing team will proceed with the next phases.