TEST PLAN

Project Name: Tutorials Ninja demo website

# 1. Introduction

This test plan outlines the strategy and approach for testing the Tutorials Ninja demo website. The purpose of this document is to ensure that all the features and functionalities of the website are thoroughly tested to meet the expected quality standards.

## 1.1 Scope

The scope of testing includes functional, usability, and performance testing of the Tutorials Ninja demo website. The testing will cover various aspects of the website, including navigation, user interactions, form submissions, and page responsiveness across different devices and browsers.

## 1.2 Objectives

The objective of this test plan is to identify potential issues and defects in the website's functionality and ensure that the website meets the required quality standards before going live.

# 2. Test Items

## 2.1 Features to be Tested

The following features will be tested:  
- User Registration and Login  
- Product Search and Filtering  
- Shopping Cart Functionality  
- Checkout Process  
- Payment Gateway Integration  
- Order History and Tracking  
- Responsive Design Testing on different devices  
- Page Load Performance

## 2.2 Features Not to be Tested

The following features are out of the scope of this testing plan:  
- Integration with external payment gateways (will be mocked)  
- Third-party API integrations  
- Non-functional aspects like security testing.

# 3. Test Approach

## 3.1 Test Levels

The testing will be conducted at the following levels:  
- Unit Testing  
- Integration Testing  
- System Testing  
- User Acceptance Testing (UAT)

## 3.2 Test Types

The following test types will be applied:  
- Functional Testing  
- Usability Testing  
- Performance Testing  
- Compatibility Testing

## 3.3 Tools

The following tools will be used for testing:  
- Selenium for automated functional testing  
- JMeter for performance testing  
- BrowserStack for compatibility testing across different browsers and devices.

# 4. Test Environment

## 4.1 Hardware Requirements

The following hardware will be required:  
- Desktops and laptops with Windows and macOS  
- Mobile devices with Android and iOS

## 4.2 Software Requirements

The following software will be required:  
- Web browsers: Chrome, Firefox, Safari, Edge  
- Testing tools: Selenium, JMeter, BrowserStack

## 4.3 Test Data

Test data will include sample user accounts, product listings, and order details to validate the functionality of the website.

# 5. Test Criteria

## 5.1 Entry Criteria

Testing will commence once the following criteria are met:  
- All features and functionalities are developed and available for testing.  
- Test environment is set up and accessible.  
- Test data is prepared and verified.

## 5.2 Exit Criteria

Testing will be considered complete when:  
- All critical and high-severity defects are resolved.  
- All test cases have been executed and passed.  
- A test summary report has been generated and reviewed.

# 6. Test Schedule

The test schedule will be planned based on project timelines. Major milestones include:  
- Test Planning: [27-08-2024] - [27-08-2024]  
- Test Case Design: [28-08-2024] – [29-08-2024]  
- Test Execution: [29-08-2024] - [30-08-2024]  
- Test Closure: [27-08-2024] - [31-08-2024]

# 7. Test Deliverables

The following deliverables will be provided:  
- Test Plan  
- Test Cases  
- Test Scripts (for automation)  
- Test Data  
- Test Summary Report

# 8. Roles and Responsibilities

## 8.1 Test Manager

The Test Manager will be responsible for:  
- Overseeing the test planning and execution process.  
- Coordinating with development and QA teams.  
- Ensuring that testing is aligned with project goals.

## 8.2 Test Engineer

The Test Engineer will be responsible for:  
- Designing and executing test cases.  
- Reporting defects and tracking their resolution.  
- Providing input for the test summary report.

## 8.3 Developers

Developers will be responsible for:  
- Fixing defects identified during testing.  
- Providing necessary support to the testing team.

# 9. Risks and Mitigations

Potential risks include:  
- Delays in the development phase impacting the test schedule.  
- Unavailability of test environments.  
- High number of defects identified during testing.  
Mitigation strategies:  
- Regular communication with the development team to track progress.  
- Contingency planning for environment setup.  
- Prioritizing defect resolution based on severity.

# 10. Approval

This test plan is approved by the following stakeholders:

**Test plan Prepared by**: R. Lakshmi Yasaswini

**Approved By**: Shiva Kumar

**Date of Approval**: