

# TEST PLAN

## PracticeSoftwareTesting



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[PracticeSoftwareTesting.com](http://PracticeSoftwareTesting.com)

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## TABLE OF CONTENTS

1.	INTRODUCTION .....
2.	SCOPE .....
2.1.	Test Objectives .....
3.	TEST STRATEGY/TEST APPROACH
3.1.	Functional Testing.....
3.2.	UI/UX Testing .....
3.3.	Compatibility Testing .....
3.4.	Negative Testing .....
3.5.	Regression Testing .....
3.6.	Data Validation .....
4.	TEST ENVIRONMENT
4.1.	Browsers,OS,Devices .....
5.	TEST DELIVERABLES
5.1.	Test Cases,Bug Reports, Summary Report.....
6.	RISK & MITIGATION
7.	ENTRY & EXIT CRITERIA

## 1. Introduction

This Test Plan outlines the overall strategy and framework for evaluating the [practicesoftwaretesting.com](http://practicesoftwaretesting.com) application. It provides an overview of the testing objectives and defines how the testing effort will be organized and executed.

The document include the following key components:

- Scope: Defines what will be tested, including (Critical Flow, Navigation & Display, UI/UX Element, Form Validation, Content Accuracy, Advanced Features, WCAG Compliance, and Core Functional Behaviour)
- Test Strategy: Describe the guideline principles for testing effort, including assumption, objectives, and project timelines.
- Test Environment: Specifies the browser, devices, and configuration required for testing.
- Test Deliverables: List the artifacts that will be produced, such as test cases, bug reports, and test summary reports.
- Entry & Exit Criteria: Establishes the conditions needed to begin and complete the testing process

## 2. Scope

This test plan covers the functional and non-functional testing of the [PracticesoftwareTesting.com](http://PracticesoftwareTesting.com) web application. The scope of testing includes validation of core user workflows, user interface elements, data handling, and cross-browser compatibility.

In Scope:

- Core application functionality(login, navigation, product interaction, cart checkout)
- UI/UX elements including layout, images, and text rendering
- Form validation and error handling
- Cross-browser compatibility(Chrome, Firefox, Edge)
- Negative and edge case scenarios
- Regression testing of previously tested features
- Data validation and consistency across pages

Out of Scope:

- Performance and load testing
- Security and penetration testing
- Backend/database testing
- Mobile application testing
- Automation testing

## 3. Test Strategy

### 3.1 Functional Testing

PURPOSE: To verify that the core of [practicesoftwaretesting.com](http://practicesoftwaretesting.com) functions as expected. This includes checking that inputs produce the correct outcomes and invalid inputs trigger proper error handling.

SCOPE: Functional testing will cover the following areas:

- Authentication flow(login/logout)
- Navigation between pages
- Form submissions and field validation
- Button and UI component behaviour
- Error messages and form validation rules
- Correct display of dynamic content
- Critical user flow(e.g., login > dashboard > logout)

TESTER: Testing will be performed individually as part of this portfolio project

TEST BASIS: Functional scenarios and test cases written specifically for this application.

TEST COMPLETION CRITERIA: Functional test cases have been complete when:

- All function test cases have been executed
- All critical and high-severity defects are documented and retested where applicable
- A final test summary report is completed

### 3.2 UI/UX Testing

PURPOSE: To verify that the user interface and visual elements of [practicesoftwaretesting.com](http://practicesoftwaretesting.com) function and display correctly without visual defects. This includes ensuring that images load properly, text is readable, and the overall layout provides a consistent user experience.

SCOPE: UI/UX testing will cover the following areas:

- Verification of image loading(including detection of broken images)
- Identification of typographical errors and text alignment issues
- Cross-Browser Layout consistency and visual rendering

TESTER: Testing will be performed individually as part of this portfolio project

TEST BASIS: UI/UX test cases and exploratory testing scenarios based on expected user interface behaviour and design consistency.

TEST COMPLETION CRITERIA: UI/UX testing will be considered complete when:

- All UI/UX test cases have been executed
- All identified critical and major visual defects have been documented

- Visual consistency has been verified across supported browsers

### 3.3 Compatibility Testing

PURPOSE: To verify that [practicesoftwaretesting.com](http://practicesoftwaretesting.com) functions and displays consistently across supported web browsers and screen resolutions, ensuring a reliable user experience for different users.

SCOPE: Compatibility testing will focus on the following areas:

- Page layout and visual consistency across browsers
- Proper rendering of images, text, and UI components
- Consistent behaviour of navigation links and buttons
- Form input handling and validation across browsers

TEST ENVIRONMENT: Compatibility testing will be conducted on the following browsers and configurations:

- Google Chrome(latest version)
- Mozilla Firefox(latest version)
- Microsoft Edge(latest version)

TESTER: Testing will be performed individually as part of this portfolio project

TEST COMPLETION CRITERIA: Compatibility testing will be considered complete when:

- All targeted browsers have been tested
- No critical layout or function issues remain unresolved
- Observed browser-specific issues have been documented

### 3.4 Negative Testing

PURPOSE: To verify that [practicesoftwaretesting.com](http://practicesoftwaretesting.com) properly handles invalid, unexpected, or incomplete user inputs and prevents unauthorized or unintended access. The goal is to ensure the application responds with appropriate error messages and does not expose system functionality when invalid data is provided.

SCOPE: Negative testing will cover the following scenarios:

- Invalid login credentials (incorrect username or password)
- Empty or missing required form fields
- Invalid inputs formats(e.g special character in restricted fields)
- Attempted to submit forms with incomplete data
- Improper navigation actions that should be restricted without authentication

TESTER: Testing will be performed individually as part of this portfolio project

TEST BASIS: Negative test scenarios and test cases designed based on expected application behaviour and input validation rules.

TEST COMPLETION CRITERIA: Negative testing will be considered complete when:

- All negative test cases have been executed
- Appropriate error messages are displayed for invalid inputs
- No unauthorized access or unexpected behaviour is observed
- All identified defects have been documented

### 3.5 Regression Testing

PURPOSE: To verify that existing functionality on [practicesoftwaretesting.com](http://practicesoftwaretesting.com) continues to work as expected after bug fixes, feature updates, or changes to existing components. Regression testing ensures that changes do not introduce new defects into previous tested areas of the application.

SCOPE: Regression testing will include verification of:

- Previously fixed defects to ensure issues do not reoccur
- Core application features after changes or updates
- New or modified features to confirm they do not impact existing functionality
- Inventory updates and related user interactions

TESTER: Testing will be performed individually as part of this portfolio project

TEST BASIS: Regression test cases derived from previously executed functional and negative test cases.

TEST COMPLETION CRITERIA: Regression testing will be considered complete when:

- All selected regression test cases have been executed
- No critical regression are identified
- Previous fixed defects remain resolved
- A regression testing summary is documented

### 3.6 Data Validation

PURPOSE: To verify that data entered into [practicesoftwaretesting.com](http://practicesoftwaretesting.com) is processed, stored and displayed accurately throughout the application. This ensures that user inputs produce correct system responses and that displayed data remains consistent across pages.

SCOPE: Data validation testing will include verification of

- Accuracy of data entered into form fields
- Correct display of submitted data on confirmation or result pages
- Validation of required fields and accepted input formats
- Consistency of data after navigation or page refresh
- Confirmation messages reflects the correct user input

TESTER: Testing will be performed individually as part of this portfolio project

TEST BASIS: Data validation test cases derived from functional and negative testing scenarios

TEST COMPLETION CRITERIA: Data validation testing will be considered complete when:

- All data validation test cases have been executed
- Submitted data is accurately reflected across the application
- Invalid or incorrect data is handled appropriately
- All identified data-related defects have been documented

#### 4. Test Environment

Test will be conducted on a Windows operating system using the following web browsers:

- Google Chrome(latest Version)
- Mozilla Firefox(Latest Version)
- Microsoft Edge(Latest Version)

#### 5. Test Deliverables

The following deliverables will be produced as part of the testing effort for [practicesoftwaretesting.com](http://practicesoftwaretesting.com):

- **Test plan:** Document outlining the testing strategy, scope, approach, and schedule.
- **Test Cases:** Detailed test cases covering functional, UI/UX, compatibility, negative, regression, and data validation testing.
- **Bug reports:** Documented defects including reproduction steps, expected and actual results, severity, and supporting screenshots where applicable.
- **Test Summary Report:** A summary of testing activities, test results, and overall quality assessment of the application.

#### 6. Risk & Mitigation

##### Risk 1: Test Environment Instability

**Description:** The demo website may experience downtime, slow performance, or unexpected behaviour, which could interrupt testing activities.

**Mitigation:**

- Perform testing during different times of the day
- Document any environment-related issues separately from functional defects
- Retry failed test cases once the application is stable

##### Risk 2: Limited or Changing Application Requirements

**Description:** The application does not provide formal requirement documentation, which may result in unclear expected behavior.

**Mitigation:**

- Use exploratory testing to better understand application functionality
- Base test cases on observed behavior and common e-commerce standards
- Clearly document assumptions in test cases and defect reports

**Risk 3: Browser or Device Compatibility Issues**

**Description:** The application may behave differently across browsers or screen sizes.

**Mitigation:**

- Execute tests across multiple browsers(Chrome, Firefox, Edge)
- Document browser-specific defects clearly
- Capture screenshots for visual issues

**Risk 4: Time Constraints**

**Description:** Limited time may prevent execution of all planned test cases.

**Mitigation:**

- Prioritize critical user flows(login, product search, add to cart, checkout)
- Focus testing on high-risk and high impact areas
- Clearly document untested areas in the test summary

**Risk 5: Data Inconsistencies**

**Description:** Test data such as product inventory, prices, or user accounts may change unexpectedly during testing.

**Mitigation:**

- Validate data before executing test cases
- Document data-related issues as observations when expected results cannot be conformed
- Re-run impacted test cases if data stabilizes

**7. Entry & Exit Criteria**

**Entry Criteria:**

Test will begin when the following conditions are met:

- The [practicesoftwaretesting.com](http://practicesoftwaretesting.com) application is accessible and stable
- Test environment( browser and system setup) is ready
- Test cases have been written and reviewed
- Test data required for execution is available

#### Exit criteria:

Test will be considered complete when the following conditions are met:

- All planned test cases have been executed
- All criteria and high-severity defects have been identified and documented
- No unresolved critical defects remain
- Test results and observations are summarized in a test summary report