# **Test Plan (Toolshop Application)**

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**Overview**

This document serves as high level test planning document with details on the scope of the project, test strategy, test schedule and resource requirements, test deliverables and schedule of the **Toolshop web application** hosted on [PracticeSoftwareTesting.com](https://practicesoftwaretesting.com).

**Scope**

The scope of the project includes testing the following features of ‘<https://practicesoftwaretesting.com/>’ web application.

**Inclusions:**

The following modules and features will be tested:

* Home page and navigation menus
* Login / Registration
* Product listing and details pages
* Shopping cart (add/update/remove)
* Checkout process and order confirmation
* Search bar and products filters
* Logout

**Exclusions:**

* All the features except that are mentioned under ‘Inclusions’
* API or backend database testing
* Payment gateway integration
* Load, stress or security testing

**Test Environments**

• Windows 10 – Chrome, Firefox and Edge

• Mac OS – Safari Browser

• Android Mobile OS – Chrome

• iPhone Mobile OS – Safari

**Test Strategy**

As part of Functional Testing, we will follow the below approach:

**Step #1 – Test Design and Preparation**

Creation of Test Scenarios and Test Cases for all the key features within the defined scope.

**Test Design Techniques Applied:**

* Equivalence Class Partitioning
* Boundary Value Analysis
* Decision Table Testing
* State Transition Testing
* Use Case Testing

**Additional Techniques (Experience-Based):**

* Error Guessing
* Exploratory Testing

All test cases will be prioritized based on risk, frequency of use, and business impact.

**Step #2 – Testing Execution Process**

* **Smoke Testing:** Initially performed to ensure the critical functionalities of the application are working.
* If Smoke Testing fails, the **build will be rejected**, and testing will resume once a stable build is provided.
* After a **stable build** passes smoke testing, we will perform in-depth testing using the prepared test cases.
* Multiple testers will execute test cases on **various supported environments** simultaneously.
* **Defects** will be logged in the bug tracking tool and a **daily status report** will be shared with the development and management teams.

**Types of Testing to be performed:**

* Smoke and Sanity Testing
* Regression Testing and Retesting
* Usability, Functional, and UI Testing

Testing cycles will be **repeated** until the application meets the expected quality standards.

**Step #3 – Testing Best Practices**

* **Context-Driven Testing:** Perform testing based on the specific context of the Toolshop application.
* **Shift-Left Testing:** Start testing early in the development cycle to identify issues sooner.
* **Exploratory Testing:** Alongside regular test case execution, testers will perform exploratory testing.
* **End-to-End Flow Testing:** Validate complete user flows involving multiple functionalities to simulate real-world usage.

**Defect Reporting Procedure**

During the test execution phase:

* Any **deviation from the expected behavior** of the application will be recorded.
  + If it does not qualify as a defect, it will be reported as an **observation**, **issue** or **clarification request**.
* Any **usability concerns** or user experience issues will also be documented.
* Once a defect is identified, it will be **retested** to confirm **reproducibility**.
  + **Screenshots** and **detailed steps to reproduce** will be attached for clarity and traceability.
* At the **end of each day**, all identified defects and observations will be compiled and shared with the **development and management teams** through a daily status report.

**Note:**

* All **defects** will be tracked and documented in an **Excel sheet**.
* All **test scenarios and test cases** will also be maintained in **Excel documents** for proper traceability and version control.

**Test Schedule**

**Following is the test schedule planned for the project –**

|  |  |
| --- | --- |
| **Tasks** | **Time Duration** |
| Creating Test Plan |  |
| Test Case Creation |  |
| Test Case Execution |  |
| Summary Reports Submission |  |

**Test Deliverables**

The following are to be delivered to the client:

|  |  |  |
| --- | --- | --- |
| Deliverables | Description | Target Completion Date |
| Test Plan | Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables and schedule | Date |
| Functional Test Cases | Test Cases created for the scope defined | Date |
| Defect Reports | Detailed description of the defects identified along with screenshots and steps to reproduce on a daily basis. | NA |
| Summary Reports | Summary Reports- Bugs by Bug# Bugs by Functional Area and Bugs by Priority | Date |

**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 Toolshop requirements or project details.

**Exit Criteria:**

* Requirements are reviewed and understood by the testing team.
* All clarifications and doubts are cleared.

**Test Planning**

**Entry Criteria:**

* Testable requirements are derived from the shared Toolshop project details.
* Doubts and dependencies are clarified.

**Exit Criteria:**

* Test Plan document (including strategy and scope) is reviewed and approved.

**Test Designing**

**Entry Criteria:**

* Test Plan document is approved.

**Exit Criteria:**

* Test Scenarios and Test Cases are created and reviewed.

**Test Execution**

**Entry Criteria:**

* Test Scenarios and Test Cases are approved.
* Toolshop application build is ready for testing.

**Exit Criteria:**

* Test Case Reports and Defect Reports are completed.

**Test Closure**

**Entry Criteria:**

* Test Case Reports and Defect Reports are finalized.

**Exit Criteria:**

* Test Summary Report is prepared and testing is formally closed.

**Suspension and Resumption Criteria**

* Based on client decision, testing may be suspended and resumed as needed.
* We will ramp up or ramp down resources as per project requirements.

**Tools**

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

• Mind map Tool

• Snipping Screenshot Tool

• Word and Excel documents

**Risks and Mitigations**

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| Non-availability of a resource | Plan for backup resources to ensure continuity. |
| Build URL not working | Team will work on other assigned or documentation tasks until resolved. |
| Less time for testing | Increase testing resources or adjust priorities dynamically. |

**Approvals**

Team will send different types of documents for Client Approval like below:

• Test Plan

• Test Scenarios

• Test Cases

• Reports

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