**Group 107**

**SHOPUS**

**<Iteration/ Master> Test Plan**

**Version <1.0>**

**Revision History**

|  |  |  |  |
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**<Iteration/ Master> Test Plan**

# Introduction

## Purpose

**Objectives**: The main purpose of this document is to define the testing strategy, methods, and approaches for the Online Bookstore project. It ensures that all testing aspects are precisely defined, well-understood, and effectively communicated to the project team.

**Content**: This document presents a thorough outline of the testing procedure, encompassing the scope, goals, resources, timeline, testing environments, test cases, and risk management. It acts as a manual for the testing team to carry out their responsibilities in a methodical and efficient manner.

**Users**: This Test Plan is intended for use by developers, testers, project managers, and anyone involved in the project's testing.

**Key features**:

* **Test Environment**: Specifies the hardware, software, and network configurations required for testing, ensuring a consistent and controlled testing environment.
* **Test Cases**: Provides detailed test cases, scenarios, and expected outcomes to guide testers during the execution phase.
* **Roles and Responsibilities**: Clearly defines the responsibilities of each team member involved in testing, ensuring accountability.
* **Creating Test Schedule**: Establish a timeline for each testing phase, from test planning to execution and reporting. This helps in managing time effectively and meeting project deadlines.
* **Allocating Resources**: Clearly state the resources required for testing, including human resources, testing environments, hardware, software, and tools. This aids in preventing resource-related bottlenecks..
* **Defining Testing Scope and Objectives**: Clearly delineate what will be subjected to testing and articulate the specific goals that testing aims to achieve. This ensures alignment between testing efforts and project objectives.

# Target Test Items

1. Add Products to Catalog:

Test cases to validate the adding process:

Validate scenarios where the adding process is invalid.

Validate scenarios where the adding process is valid.

Verify if the added product is correctly stored in the database.

Validate the response time of the back-end.

2. Delete Products from Catalog:

Ensure that after deleting a product, it is removed from both the database and the catalog on the front-end.

Verify that if the delete process is canceled, the products remain in the database and catalog.

3. Update Products:

Validate the ability to change a property of a product.

Ensure that if you delete a property without editing new information, it cannot be saved.

After updating, confirm that the products with new information appear correctly in the catalog.

4. Add Products to Cart:

Test cases for adding products to the cart.

After adding, verify that a numerical indicator next to the cart icon represents the number of products currently in the cart.

5. Search by Title (SS - Search by Title):

Search for books by their titles and verify the search results.

6. Add to Cart (AC - Add to Cart):

Select a book and add it to the shopping cart.

7. Check Out (CO - Check Out):

Proceed with the checkout for an order with products in the cart.

# Environmental Needs

## Hardware Requirements

* A standard desktop computer, laptop, or even a tablet or smartphone with at least 4 GB of RAM is recommended for smooth testing.
* Test across common resolutions, including 1366x768, 1920x1080, and 1440x900.
* Require internet connection.
* For PC
  + CPU intel i3 or later
  + GPU: Intel HD Graphics, intel UHD Graphics, AMD Radeons Graphics, NVIDIA GeForce GT

1030, NVIDIA GeForce MX150, … - For Smartphone, table:

* + CPU: Snapdragon, Apple A-Series, Exynos, …

## Software in the Test Environment

The following base software elements are required in the test environment for this *Test Plan*.

|  |  |  |  |
| --- | --- | --- | --- |
| **Software Name** | **Purpose** | **Version** | **Type and Other Notes** |
| Microsoft Edge | Running website for testing | 115.0.1901.203 | Internet Browser |
| Windows 10, 64 bits | OS of device, guaranteeing support and efficient operation on devices possessing constrained resources | 22H2 | Operating System |

## Productivity and Support Tools

The following tools will be employed to support the test process for this *Test Plan*.

|  |  |  |  |
| --- | --- | --- | --- |
| **Tool Category or Type** | **Tool Brand Name** | **Vendor or In-house** | **Version** |
| Defect Tracking | MS Excel 2019 | MS | 2019 |
| Write test plan | MS Word 2019 | MS | 2019 |
| Showing Bug, fixing | VSCode | MS | 2019 |
| Sharing documents | Drive | Google |  |

# Responsibilities, Staffing, and Training Needs

## People and Roles

This table shows the staffing assumptions for the test effort.

|  |  |  |
| --- | --- | --- |
|  | **Human Resources** | |
| **Role** | **Minimum Resources**  **Recommended**  **(number of full-time roles allocated)** | **Specific Responsibilities or Comments** |
|  | **Human Resources** | |
| **Role** | **Minimum Resources**  **Recommended**  **(number of full-time roles allocated)** | **Specific Responsibilities or Comments** |
| Test Manager | 1  – Trịnh Hoàng An | Provides management oversight.  Responsibilities include:   * planning and logistics * agree mission * identify motivators * acquire appropriate resources * present management reporting * advocate the interests of test * evaluate effectiveness of test effort |
| Tester | 1   * Ngô Nguyễn Thanh Thanh | Implements and executes the tests. Responsibilities include:   * implement tests and test suites * execute test suites * log results * analyze and recover from test failures * document incidents |