**PotPal**

Master Test Plan

Version 1.0

Revision History

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
| 06/12/2024 | 0.1 | Added Introduction | Lê Thanh Minh Trí |
| 07/12/2024 | 0.2 | Filled in Responsibilities, Staffing, and Training Needs | Lê Thanh Minh Trí |
| 07/12/2024 | 0.3 | Filled in Environmental Needs | Lê Thanh Minh Trí |
| 08/12/2024 | 0.4 | Added Target Test Items | Cao Hoàng Lộc |
| 10/12/2024 | 1.0 | First version | Lê Thanh Minh Trí |

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**Master Test Plan**

# Introduction

## Objectives

* Outline the overall testing strategy for the project.
* Define the scope of testing activities and the key features to be tested.
* Identify the roles and responsibilities of developers and testers involved in the testing process.
* Provide guidelines for the tools, environments, and techniques used during testing.

## Purpose

This document defines a structured approach to testing the PotPal e-commerce platform. It ensures the application meets all requirements, delivers a reliable user experience, and aligns with business objectives. It serves as a guide for planning, coordinating, and executing testing efforts efficiently.

## Target Audience

* **Test Engineers**: To understand and execute the testing process.
* **Developers**: To collaborate and resolve issues during testing.
* **Project Managers**: To track testing progress and ensure adherence to the project timeline.
* **Stakeholders**: To review testing strategies and ensure alignment with business goals.

## Key Features

* Detailed testing scope of functional testing.
* Identification of tools and frameworks to be used for test automation and bug tracking.
* Roles and responsibilities of the testers and developers.

# Target Test Items

## Areas

* Functionality: Ensure core features work as intended.
* Compatibility: Ensure the project is able to work in different browsers.
* Integrity: Ensure the structural integrity of the project's different features.
* Usability: Ensure good aesthetic and visibility for users.
* Ease of use: Ensure simplicity and straightforwardness for users.

## Features

* Cart Management: Testing the shopping cart functionality of the e-commerce website.
  + Test case 1: Add product already existing in cart.
  + Test case 2: Add out-of-stock product.
  + Test case 3: Add new product into cart.
  + Test case 4: Delete product in cart.
  + Test case 5: Add/remove quantity of a product in cart.
* Products Management: Testing the management of selling products by administrator.
  + Test case 1: Add a product with full and correct inputs.
  + Test case 2: Add a product that already existed in the database.
  + Test case 3: Add a product with incorrect inputs.
  + Test case 4: Modify existing product.
  + Test case 5: Delete existing product.
* Products Search: Search, sort or filter products based on customer input.
  + Test case 1: Search with text.
  + Test case 2: Filter by category.
  + Test case 3: Filter by configuration.
  + Test case 4: Filter by multiple criteria.
  + Test case 5: No match results.
* Categories Management: Testing the management available product categories by administrator.
* Users Management: Testing the management of customer accounts by administrator.

# Environmental Needs

## Hardware Requirements

| **Hardware** | **Minimum** | **Recommended** |
| --- | --- | --- |
| CPU Speed | 2 GHz Processor or better | 3 GHz Processor |
| RAM | 4GB | 8GB |
| Display | 1024x576 | 1920x1200 |

## 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** |
| --- | --- | --- | --- |
| Google Chrome | Testing the website compatibility among different browsers | 131.0.6778.109 | Internet Browser |
| Microsoft Edge | Testing the website compatibility among different browsers | 131.0.2903.86 | Internet Browser |
| Windows 10 | Ensure integrity among popular Window OS versions. | - | Operating System |
| Windows 11 | Ensure integrity among popular Window OS versions. | - | Operating System |
| Gmail | - | - | eMail Client software |

## 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 | Google Sheets | Google | Web app |
| Master Test Plan Document | Google Docs | Google | Web app |
| Coding Management | GitHub | Microsoft | Web app |
| Meetings and Discussions | Discord | Discord | Web app |

# 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** |
| Test Manager | Cao Hoàng Lộc | 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 | Phạm Minh Mẫn, Nguyễn Khánh Toàn, Phạm Anh Văn | 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 |
| Test System Administrator | Lê Thanh Minh Trí | Ensures the test environment and assets are managed and maintained.  Responsibilities include:   * administer test management system * install and support access to, and recovery of, test environment configurations and test labs |