USCoffee

Version <1.0>

Revision History

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# Introduction

## Purpose

**Objectives**: The main purpose of this document is to define the testing strategy, methods, and approaches for a specific project or product. 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**: Developers, testers, project managers—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

Testing sofware items:

* Add products to catalog:
  + Testing cases that the adding process is invalid, and cases that is valid, after that, check if that product is added to database or not.
  + Testing the response time of back-end
* Delete products from catalog:
  + After deleting a product, it should be removed from the database and catalog on front-end.
  + If we cancel the deleted process, those products should be still in the database and catalog.
* Update products.
  + Change a property of a product, if you just delete and do not edit a new information, it cannot be saved. After updating, the products with new information should appear on the catalog.
* Add products to cart.
  + Testing cases of adding products to cart, after adding, there’s a number next to the cart icon represent for the number of products in the cart now.
* Create/edit categories.
  + Creating a new category of products, editing categories

# 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** |
| Test Manager | 1  – Nguyễn Đắc Khôi | 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 | 4  - Nguyễn Hoàng Đức Nguyên  - Dương Phước Sang  - Trần Văn Quyết  - Nguyễn Đắc Khôi | 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 |