<SmokerGang – Group 1>

<DiamondHand.Store>
<Iteration/ Master> Test Plan

Version <1.4>

Revision History

Date	Version	Description	Author
<26/12/23>	<1.1>	<Describe Introduction; Target Test Items; Environmental Needs; Responsibilities, Staffing, and Training Needs>	<Mai Quý Đạt>
<27/12/23>	<1.2>	<Update Target Test Items, Update Environmental Needs: 3.2; 3.3>	<Đỗ Quốc Bảo>
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<Iteration/ Master> Test Plan

1. Introduction

1.1 Purpose

This test plan documentserves to establish a structured approach for testing, defining the scope, methodologies, and timelines. It guides quality assurance engineers, testers, developers, and stakeholders involved in the website's development. This document outlines the testing strategies, roles, responsibilities, and resources needed for comprehensive functional, performance, security, and compatibility testing. Its primary purpose is to ensure a systematic evaluation of the website's functionalities and user experience, identifying potential issues or risks before deployment. Ultimately, the test plan aims to guarantee the website's quality, reliability, and readiness for a successful launch, enhancing customer satisfaction and minimizing post-release problems.

1.2 Objectives

- Clarify the approach and strategy for the project.
- Define the scope of testing to ensure that all agreed-upon functionalities and features are thoroughly evaluated.
- Outline methodologies, tools, and resources needed for effective testing within the group's capabilities.
- Assign roles and responsibilities among the team members involved in the project.

1.3 Who should use it ?

- All members of our group involved in developing and testing the website project.
- It's a shared document among the team to align on testing strategies, responsibilities, and timelines within the group's context.

1.4 Key features

- Clearly defined scope of testing within the group's project requirements and capabilities.
- Methodologies tailored to the group's resources and the project's specifics.
- A schedule that aligns with the group's timelines and availability.
- Roles and responsibilities distributed among the group members involved.
- Identified tools and resources available within the school setting.
- Risk assessment considering project-related challenges within the school environment.
- Agreed-upon deliverables expected from the testing activities within the project context.

2. Target Test Items

2.1 Functional Testing

- Add Product as Admin: Verify the admin's ability to add new products accurately into the system.
- Browse and Search: Confirm users can navigate categories and use the search feature effectively.
- Shopping Cart: Test the functionality of adding, modifying, and purchasing items from the cart.
- Login as end user: Verify the login functionality for end users, ensuring secure access to their accounts and personalized features.
- Register as end user: Test the registration process for new users, validating the accuracy of account creation and email verification.
- Purchase for products in Cart: Confirm the entire purchase flow from cart to checkout, ensuring accuracy and successful order placement.

2.2 Usability Testing

- Browser compatibility: Ensure the website functions seamlessly across various web browsers such as Chrome, Firefox, Opera, and Edge, maintaining consistent layout and functionality.

3. Environmental Needs

3.1 Hardware Requirements

- Computer Requirements:
    + Desktop or Laptop: Modern system with an i5 or Ryzen 5 processor or higher.
    + RAM: Minimum 8GB or more for multitasking capabilities.
    + Storage: Adequate space for storing applications, data, and virtual environments.
    + Operating System: Compatible with browsers and tools required for testing.
- Mobile Device Requirements:
    + Representative Devices: Various Android and iOS devices for testing mobile responsiveness.
    + Simulators/Emulators: Optional, for testing across different screen sizes and versions.

3.2 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
Firefox	Web browser compatibility testing for the e-commerce platform	120.0 or latest	Internet Browser
Google Chrome	Primary web browser testing for the website	120.0 or latest	Internet Browser
Microsoft Edge	Ensuring compatibility and performance on Edge for user experience	120.0 or latest	Internet Browser
Opera	Verifying website functionality and responsiveness on Opera	106.0 or latest	Internet Browser
Android 13	Testing website functionality on Android mobile platform	13	Operating System (Mobile OS)
Windows 11	Compatibility testing for the website on the latest Windows	11	Operating System (Desktop OS)
Windows 10	Ensuring backward compatibility and smooth functioning on Windows 10	10	Operating System (Desktop OS)
iOS 17	Verifying the web app's performance on the latest iOS version	17	Operating System (Mobile OS)
Safari	Testing website responsiveness and functionality on Safari browser	17.2	Internet Browser

3.3 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
Project and Task Management	Trello	Atlassian	2023
Word Processing	Microsoft Word	Microsoft	2016
Spreadsheet Tool	Microsoft Excel	Microsoft	2016
Natural Language Chat	ChatGPT	OpenAI	3.5

Tool Category or Type	Tool Brand Name	Vendor or In-house	Version
Instant Messaging	Messenger	Meta	Latest

4.   Responsibilities, Staffing, and Training Needs

4.1   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 member: Mai Quý Đạt	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	2 members: Mai Quý Đạt Đỗ Quốc Bảo	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	2 members: Mai Quý Đạt Đỗ Quốc Bảo	Ensures 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