**<SOPE>**

<Iteration/ Master> Test Plan

Version <1.4>

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 28/08/2024 | 1.0 | update Introduction, Productivity and Support Tools | Huỳnh Nhật Nam |
| 28/08/2024 | 1.1 | update People and Roles | Huỳnh Thiên Thuận |
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| 28/08/2024 | 1.3 | update Hardware Requirements | Huỳnh Thiên Thuận |
| 28/08/2024 | 1.4 | update software in Test environment | Trần Đức Tùng |

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**<Iteration/ Master> Test Plan**

# Introduction

## Purpose

The primary objective of this test plan document is to outline the testing strategy for the e-commerce shop project. It aims to ensure that all aspects of the shop are functioning as expected, providing a seamless user experience, and meeting the specified requirements. The document serves as a guide for conducting tests, identifying issues, and verifying that the e-commerce platform is ready for deployment.

This document covers the testing processes and methodologies that will be applied to the e-commerce shop project. It includes details on the scope of testing, the features to be tested, the testing environment, and the types of testing that will be conducted (e.g., functional, usability, performance, security testing). Additionally, it outlines the testing schedule, resources required, and the criteria for success.

The test plan document is intended for use by the project team members involved in the e-commerce shop, including:

Testers: To understand the testing approach and execute the tests accordingly.

Developers: To know what areas will be tested and to anticipate potential issues.

Project Managers: To track the testing progress and ensure that the project is on schedule.

Stakeholders: To review the testing strategy and ensure it aligns with business objectives.

Key Features of This Document:

Scope of Testing: Clearly defines what will be tested, including specific features and functionalities of the e-commerce shop.

Test Environment: Specifies the hardware, software, network configurations, and any other tools needed for testing.

Types of Testing: Outlines various testing methods such as unit testing, integration testing, system testing, and acceptance testing.

Test Cases and Scenarios: Provides detailed test cases and scenarios that will be used to validate the e-commerce shop.

Test Schedule: Includes a timeline for when each testing phase will be executed.

Resources and Responsibilities: Identifies the personnel responsible for conducting the tests and the resources required.

Risk and Mitigation: Highlights potential risks in the testing process and how they will be mitigated.

Success Criteria: Establishes the criteria for determining whether the testing phase has been successful.

# Target Test Items

**Target test items:**

1. **Signup Feature:**

* Functional Testing: Validate form, error handling, and account creation.
* Usability Testing: Assess ease of use.

1. **Login Feature:**

* Functional Testing: Check login, incorrect credentials, and password reset.
* Usability Testing: Evaluate login interface.

1. **Cart Feature:**

* Functional Testing: Test adding, updating, and removing items.
* Usability Testing: Ensure cart interface is user-friendly.

1. **Shop Add New Product Feature:**

* Functional Testing: Validate product addition and data input.
* Usability Testing: Assess interface ease of use.

1. **Payment Feature:**

* Functional Testing: Verify payment processing and methods.
* Usability Testing: Evaluate payment interface clarity.

# Environmental Needs

## Hardware Requirements

Ram: > 4GB

CPU: 2.5 GHz

Network: Access to the internet

## 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 | To run product on the client side | 15964.37.0 | Internet Browser |
| Windows | To run server of the system | 11, 64 bit | Operating system |
| Google Email | To register an account | up to 28/08/2024 | 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 sheet | Google | 2024 |
| Schedule Testing | Jira | Atlassian | 2024 |
| Conduct Documentation | Google Docs | Google | 2024 |

# 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 (Huỳnh Nhật Nam) | 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 | 5 (All members) | 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 | 1 (Huỳnh Nhật Nam) | 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 |