
Group 5

**Justatea E-commerce website
Master Test Plan**

Version 1.0

Group05	Version: 1.0
Master Test Plan	Date: 15/Aug/24
PA5	

Revision History

Date	Version	Description	Author
15/Aug/2024	1.0	First version of master test plan	TDHPhuoc, TDBinh

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Master Test Plan

1. Introduction

1.1 Objectives

The objectives of this document are as follows:

- Defining tasks and responsibilities: It outlines who is responsible for each testing task.
- Service level agreement: It can be used as a document for service level agreements.
- Testing strategy: It describes the overall approach to testing.
- Test schedule: It includes the schedule of the testing activities.
- Resources: It outlines the resources required for testing.
- Communication: It serves as a vehicle for communication among the team members involved in the testing process.

1.2 Purpose

A test plan document is a comprehensive document that describes in detail how the testing is being planned and how it will be managed across different test levels. It provides a bird's eye view of the key decisions taken, the strategies to be implemented, and the testing effort involved in the project

1.3 Target roles

The Test Plan document is primarily used by the following roles:

- Test Manager or Test Engineer: These are the individuals who are typically responsible for writing the test plan.
- Testing Team: The testing team, which includes roles such as Test Engineers and other testing personnel, uses the test plan to understand their tasks and responsibilities.
- Project Stakeholders: This includes Project Managers, Developers, Business Analysts, and others who have an interest in the testing process. They use the test plan to understand the scope, strategy, schedule, and resources required for testing

1.4 Key features

The key features of a Test Plan document include:

- Introduction: A brief summary of the product that is being tested.
- Objectives and tasks: Describes the objectives supported by the Master Test Plan and lists all the tasks identified by this Test Plan.
- Scope: Describes what is being tested, which is new to all the functions of a specific product, its existing interfaces, integration of all functions....
- Testing strategy: Describes the overall approach to testing.
- Some additional features: hardware/environment requirements, test schedule, dependencies...

2. Target Test Items

2.1 Performance

- Load Testing: Verify the website application's behavior under peak loads.
- Stress Testing: Check the system's robustness and error handling under extreme conditions.
- Responsive Testing: The website shall have a responsive design, which makes the application work well on all devices

2.2 Usability

- Navigation: Ensure all pages and features are easy to find and use.
- Responsiveness: Test the website's design on different devices and screen sizes.

2.3 Security

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- Personal information: User's personal information must be highly secured to avoid information leakage.
- Accessibility: Each role can only access certain functions specifically designated for that role.
- Password: The password of each user must be encrypted and decrypted properly to ensure security.

3. Environmental Needs

3.1 Hardware Requirements

- Operating System: Windows 10 or 11 64 bit, Linux Ubuntu
- Internet Browser: Google Chrome or Microsoft Edge with latest version.
- Dependencies: We will assume you have installed Node.js in your computer with all the necessary packages/libraries have been installed successfully.
- Display: The screen aspect ratio is 16:9 with a minimum resolution of 1280x720.
- RAM: To run and test programs smoothly, it is necessary to have at least 8GB RAM (enough to run the Internet Browser).

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
Microsoft Edge	To deploy the system of the website	120.0.2210.89 (Official build) (64-bit)	Internet Browser
Google Chrome	To deploy the system of the website	120.0.6099.130 (Official Build) (64-bit)	Internet Browser
Windows 11 Home, 64 bit	The operating system of the computer used to run the internet browser to use our website as both client or server	23H2	Operating System

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
Defect Tracking	Google Sheets	Google	2024

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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	Trần Quốc Việt	Provides management oversight. Responsibilities include: <ul style="list-style-type: none"> planning identify motivators acquire appropriate resources present management reporting advocate the interests of test evaluate effectiveness of test effort

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Human Resources		
Role	Minimum Resources Recommended (number of full-time roles allocated)	Specific Responsibilities or Comments
Tester	Trần Quốc Việt Trần Đức Bình Trần Đoàn Huy Phước Hồ Thế Phúc	Responsibilities include: Implement tests and test suites: <ul style="list-style-type: none"> Design and develop comprehensive test cases that cover all aspects of the functionality being tested. Organize test cases into logical and efficient test suites for regression, integration, and system testing. Execute test suites: <ul style="list-style-type: none"> Run manual and automated test cases as part of regular testing cycles or release processes. Perform various types of testing including functional, regression, performance, load, security Log Results: <ul style="list-style-type: none"> Accurately document the results of executed test cases, including pass/fail status and detailed descriptions of any defects found. Work closely with the development team to triage, prioritize, and resolve defects. Analyze and recover from test failures: <ul style="list-style-type: none"> Investigate and analyze test failures to determine whether they are caused by test case issues, environmental problems, or defects in the code. Re-run tests after fixes have been implemented to ensure the issue is resolved.
Test System Administrator	Le Quang Tan	Ensures the test environment and assets are managed and maintained. Responsibilities include: <ul style="list-style-type: none"> administer test management system install and support access to, and recovery of, test environment configurations and test labs