

**E-commerce Web Application
<Iteration/ Master> Test Plan**

Version <1.0>

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Revision History

Date	Version	Description	Author
06/12/2020	1.0		Mai Đăng Khánh

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<Iteration/ Master> Test Plan

1. Introduction

1.1 Purpose

This is the test plan documentation of our project: “E-commerce Web Application”. It helps us determine the effort needed to validate the quality of the application under test.

This document describes the test strategy, objectives, schedule, estimation, deliverables, and resources required to perform testing for the web application. The test plan serves as a blueprint to conduct software testing activities as a defined process, which is minutely monitored and controlled by the test manager.

This document is intended to be use by people outside the test team such as developers, business managers, customers to understand the details of testing. The test plan provides rules and guide lines for the testing team to follow. It also documented important aspects like test estimation, test scope, test strategy, so it can be reviewed by management personel.

2. Target Test Items

2.1 Functional testing

Validate the application against the functional requirements/specifications as stated in the use case specification document. Conduct units test, components test as well as integration test. This testing process will be conducted by the development team and test team

2.2 Usability testing

Determine how user-friendly, easy-to-use, intuitive the user interface really is. This testing process will be conducted by the test team and the end user of the application

2.3 Performance testing

Identify the performance bottlenecks in speed, response time, stability, reliability, scalability and resource usage of the application under testing workload. This testing process will be conducted by the test team and the end user of the application, may be achived by automated testing

2.4 Security testing

Verify sensitive informations such as passwords, e-mails, bank accounts, etc. of the user are encrypted. This testing process will be conducted by the test team

3. Environmental Needs

3.1 Hardware Requirements

- Personal computers with Windows, MacOS, UNIX operating system
- Smart phones running iOS and/or Android
- Internet connection

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	Check browser's compatibility	38+	Internet Browser
Chrome	Check browser's compatibility	45+	Internet Browser
Internet Explorer	Check browser's compatibility	10+	Internet Browser

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Software Name	Purpose	Version	Type and Other Notes
Microsoft Edge	Check browser's compatibility	12+	Internet Browser
Opera	Check browser's compatibility	30+	Internet Browser
Safari	Check browser's compatibility	9+	Internet Browser
Android Browser	Check browser's compatibility	4.4+	Internet Browser
MacOS	Cross platform testing		Operating System
Ubuntu	Cross platform testing		Operating System
Windows 10	Cross platform testing		Operating System
Android	Cross platform testing		Operating System
iOS	Cross platform testing		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	MS Excel 365	MS	2016
Communication	Slack	Slack Technologies	
Version control	Git	Git	
Test automation	Cucumber	Cucumber Open	3.1.2

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	Provides management oversight. Responsibilities include: <ul style="list-style-type: none"> • planning and logistics • agree mission • 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	3	<p>Implements and executes the tests.</p> <p>Responsibilities include:</p> <ul style="list-style-type: none"> • implement tests and test suites • execute test suites • log results • analyze and recover from test failures • document incidents
Test System Administrator	1	<p>Ensures test environment and assets are managed and maintained.</p> <p>Responsibilities include:</p> <ul style="list-style-type: none"> • administer test management system • install and support access to, and recovery of, test environment configurations and test labs