
Newbies

**NBTech
Test Plan**

Version 1.1

NBTech	Version: 1.1
Test Plan	Date: 15/08/2025
<document identifier>	

Revision History

Date	Version	Description	Task	Author
14/08/2025	1.0	Fulfill required information for Test Plan in PA5.	Section 2	Trần Minh Quang
			Section 1	Đỗ Đăng Nhật Tiến
15/08/2025	1.1	Fulfill required information for Test Plan in PA5.	Section 4	Đỗ Đăng Nhật Tiến
			Section 3	Trần Minh Quang

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Test Plan

1. Introduction

This document serves as the Test Plan for the Electronics E-Commerce Website, which specializes in selling laptops, keyboards, and mice. It defines the overall strategy, scope, approach, and schedule of the testing activities to ensure the website meets both functional and non-functional requirements.

1.1 Objectives

- To verify that all website features function correctly and align with business requirements.
- To identify, track, and resolve defects prior to deployment.
- To ensure a high-quality, user-friendly, and secure shopping experience for customers.

1.2 Purpose

This document outlines the testing scope, objectives, methodologies, resources, timelines, and deliverables for the web application. It also defines the responsibilities of team members involved in the testing process.

1.3 Intended Audience

- **QA/Test Engineers** – To execute and record test cases.
- **Developers** – To fix defects identified during testing.
- **Project Managers** – To monitor testing progress and ensure project timelines.
- **Business Analysts & Stakeholders** – To verify that the website meets business goals and user expectations.

1.4 Key Features of this Document

- Detailed description of the testing scope and objectives.
- List of test types (functional, usability, performance, security, etc.).
- Test environment setup and configuration details.
- Test case structure, execution plan, and defect management process.
- Entry and exit criteria for testing phases.
- Clear roles and responsibilities for all testing activities.

2. Target Test Items

- Feature testing:
 - Searching
 - Checkout
 - My Cart / Add to Cart (Manage Cart)
 - Profile
 - Product Management
 - Account Management

3. Environmental Needs

3.1 Hardware Requirements

- For Frontend Testing (Web Interface):
 - Processor: Intel Core i5 (8th Gen) or equivalent (minimum), i7 or better (recommended)
 - RAM: 8 GB (minimum), 16 GB or higher (recommended)
 - Storage: At least 500 MB of free disk space for browser cache, test logs, and test tools
 - Display: Full HD (1920x1080) recommended

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- Network: Stable internet connection (at least 10 Mbps for testing dynamic content)
- For Backend Testing (Node.js Server):
 - Processor: Intel Core i5 (minimum), i7 or equivalent (recommended)
 - RAM: 8 GB (minimum), 16 GB (recommended)
 - Storage: 5 GB free space for server files, logs, and databases

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 , Google Chrome, MS Edge	Test the web interface	Latest stable	Internet Browser
Windows 11, 32/64bit	Operating environment	32/64-bit	Operating System
Node.js	Run backend server	v16.x or above	Runtime for JavaScript/Server
npm	Package manager	8.19.2	Software
Gmail (Google)	Send/receive test reset emails	Latest of Google	eMail Client software
MongoDB (Atlas)	Run backend database	v5.x or above	NoSQL Database Server

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 2010	MS	2010
Code editor	Visual Studio Code	Microsoft	Latest
API Testing	Postman	Postman Inc.	Latest
Test Planning	Google docs	Google	Latest

4. Responsibilities, Staffing, and Training Needs

4.1 People and Roles

This table shows the staffing assumptions for the test effort.

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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
Tester	5	Implements and executes the tests. Responsibilities include: <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 (setup phần mềm)...	1	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