

TEST PLAN FOR

HuanLe Noodles Pte. Ltd

Inventory Management System

Change log

Date	Version	By	Description
02/11/2025	1.0	John Caleb Pananganan	The document has been created
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1. Introduction

This test plan defines the scope, approach, and schedule of all testing activities for the Inventory Management System. It outlines the areas to be tested, including product management functionalities (adding, removing, updating, and listing products) and calculating the total inventory value. This plan also identifies the development team, resources, and schedule to ensure thorough testing of the system before delivery.

1.1 Purpose of the test

The purpose of these tests is to verify the core functionality and assess the quality of the Inventory Management System. The goal is to identify defects before delivery, ensuring the system meets the required specifications. Results will be documented through test cases on executed test activities.

1.2 Scope

This test plan will focus on testing the following functionalities of the Inventory Management System:

Adding Products: Ensuring that products are correctly added to the inventory with valid attributes.

Removing Products: Verifying that products can be removed from the inventory based on product ID.

Updating Products: Testing that product details (quantity and price) can be updated as expected.

Listing Products: Confirming that the system displays all products in the inventory.

Calculate Total Value: Verifying that the total value of all products in inventory is calculated correctly.

1.2.1.1 Areas to be tested

The following table indicates the areas that fall within the scope of functionality being tested.

Features	Description
AddProduct(Product product)	Adds a product to the inventory.
RemoveProduct(int productID)	Removes a product from the inventory based on its ID.
UpdateProduct(int productID, int newQuantityInStock, double newPrice)	Updates the quantity of a product.
ListProducts()	Displays all items in the inventory.
GetTotalValue()	Calculates and returns the total value of all products in the inventory.

1.2.2 Non-tested areas

Any functionality or features not explicitly mentioned in the scope of this test plan are considered out of scope and will not be tested. This includes any parts of the application that fall outside the core areas being tested, as well as any functionality not yet identified or defined for testing purposes.

2. Type of test

The following list indicates the types of tests that will be carried out in the project:

- **Functional Testing:** Verifying core features based on requirements.
- **Ad-hoc Testing:** Performing informal testing to explore the application for unexpected defects.
- **Regression Testing:** Ensuring that new changes do not break existing functionality.)

3. Test results

The results of the tests will be provided in a compilation of files, including the test plan, test cases, and bug reports. The results will include a list of tested functionalities with their status, as well as a list of defects found along with their priority

4. Resources and Environment

4.1. Tests tools

- Logging and bug tracking tool - Google Docs and Google Sheets
- Screenshots - Snipping Tool
- Screencasts - ScreenPal

4.2. Tests device and environment

Testing will be conducted in the following environment:

- IDE: Visual Studio 2022
- OS: Windows 11

5. Schedule of tests

Tests will be carried out from 02.12.2025 to 02.13.2025

The table below indicates the detailed action plan, together with the priority of the functionality (on a scale from 1 [lowest] to 5 [highest]).

Features	Priority	Date	Time	Tester
AddProduct	5	02.12.2025	2 hours	Caleb
RemoveProduct	5	02.12.2025	2 hours	Caleb
UpdateProduct	5	02.12.2025	2 hours	Caleb
ListProducts	5	02.12.2025	2 hours	Caleb
GetTotalValue	5	02.12.2025	2 hours	Caleb

6. Summary of the test plan

The test plan covers key functionalities of the Inventory Management System: adding, removing, updating products, listing products, and calculating total inventory value. Testing will include functional, regression, and ad-hoc testing. The application will be tested on a Lenovo IdeaPad with Windows 11 using Visual Studio 2022. Tools include Google Docs, Snipping Tool and ScreenPal. Testing will take place from 02.12.2025 to 02.13.2025, as per the approved schedule.