**<EFOOD>**

<Iteration/ Master> Test Plan

Version <1.2>

Revision History

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
| 27/12/2022 | 1.0 | Purpose, Target Test Items, Productivity and Support Tool | Trần Dũng Tiến |
| 29/12/2022 | 1.1 | Hardware Requirements, Software in the Test Environment | Đinh Cao Hồng Phước |
| 30/12/2022 | 1.2 | Responsibilities, Staffing, and Training Needs | Nguyễn Trung Kiên |

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**<Iteration/ Master> Test Plan**

# Introduction

## Purpose

This document describes the plan and strategies for testing The Coffee Factory web application. This Test Plan document supports the following objectives:

* Target test items: list of features of the application needed for the test and the areas to test like performance, usability, and security.
* Environment needs: require the resources like software, hardware and tools for the test
* Responsibilities, staffing and training needs: this section includes the works of each member in the testing work

# Target Test Items

* 1. **Features:**
* Search Product
* User Profile
* Payment History
* Update Password
* Add Food To Cart
* Authentication
* Contacts Management
* Users Management
* Products Management
* Dashboard Management
* Shopping cart
* Contact
* Location
* Rating Food
* Feedback bill
* Filter Menu
  1. **Areas:**
     1. **Data and Database Integrity Testing**
* Verify access to Database.
* Verify simultaneous record read accesses.
* Verify lockout during updates.
* Verify correct retrieval of update of database data.
  + 1. **Functional testing**

- Testing the main features of the website that are working accurately and meet the expectations of clients.

* + 1. **Usability testing**
* The UI should be easy-to-use and shall be appropriate for the end user.
* The UI is not faulty (lost image, content missing).
  + 1. **Security testing**

- Verify authentication security through username, password, and JSON web token.

* + 1. **Performance**

- Verify system response on many different browsers and environments (Ex: google chrome, safari, firefox ).

# Environmental Needs

## Hardware Requirements

The website is only supported with PCs!

* *OS: 64-bit Windows 7, 8.1, 10, 11*
* *Processor: 2.0 Ghz*
* *Memory: 8 GB*
* *Network: 30Mbps*

## 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** |
| --- | --- | --- | --- |
| Chrome | Check compatibility on the browser | 108 | Internet Browser |
| Cốc Cốc | Check compatibility on the browser | 113 | Internet Browser |
| Edge | Check compatibility on the browser | 108 | Internet Browser |
| Windows 11 | Check compatibility on the OS | 22H2 | Operating System |

## 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 | 2022 |
| Report Writing | Google Docs | Google | 2022 |

# 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 | Kiên | 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 | Kiên, Khôi, Phước | 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 | Long, Tiến | Ensures the 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 |
| Test Designer | All members | Defines the technical approach to the implementation of the test effort.  Responsibilities include:   * define test approach * define test automation architecture verify test techniques * define testability elements structure * test implementation |
| Database Administrator, Database Manager | All members | Ensures test data (database) environment and assets are managed and maintained.  Responsibilities include:  support the administration of test data and test beds (database). |
| Implementer | All members | Implements and unit tests the test classes and test packages.  Responsibilities include:  creates the test components required to support testability requirements as defined by the designer |