Group 01

Foodaholic
Iteration Test Plan

Version 1.0

Revision History

Date	Version	Description	Author
19/Jul/22	1.0	Initial draft about test plan	Lê Đăng Khoa Nguyễn Thiện Nhân

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Iteration Test Plan

1. Introduction

1.1 Purpose

The purpose of the Iteration Test Plan is to gather all the information necessary to plan and control the test effort for the given iteration. It describes the approach to the testing of the software and is the top-level plan generated and used by the managers to direct the test effort

This document describes the plan for testing the "Foodaholic" website. This Test Plan document supports the following objectives:

1. Visualize the test plan of the project
2. Identify the target item to be tested, software and hardware in the process of testing and allocate human resources to conduct testing
3. Identify existing project information and the software components that should be tested.
4. List the recommended test requirements (high level).
5. Recommend and describe the testing strategies to be employed
6. Identify the required resources and provide an estimate of the test efforts.
7. List the deliverable elements of the test activities.

Scope defines the features, functional or non-functional requirements of the software that will be tested. It is assumed that unit testing already provided thorough black box testing through extensive coverage of source code and testing of all module interfaces.

2. Target Test Items

List software items for testing:

1. Authentication Function
    1.1. Register new account
    1.2. Login to website
2. Post a new recipe
3. Interacting below for the detailed post (like a post, comment)
4. Search recipes
    4.1. Including sort search results (by name, chronological…)
5. View my recipes
6. Add post to favorite list and view my favorite list
7. Report post
8. Admin handle report post
9. Report account
10. Admin handle report account

Test technique/Test strategy:

1. **Functional Testing:**

Test Objective:	Make sure the website functions respond as expected Ensure proper application navigation, data entry, processing, and retrieval.

Technique:	Execute each use case, use case flow, or function, using valid and invalid data, to verify the following:
	- The expected results occur when valid data is used.
	- The appropriate error / warning messages are displayed when invalid data is used.
Completion Criteria:	All planned tests have been executed.
	All identified defects have been addressed

2. User Interface Testing / Usability testing:

Test Objective:	Good-looking website layout, easy to use, user-friendly
	Verify the following:
	- Window objects and characteristics, such as menus, size, position, state, and focus conform to standards.
	- Create/modify tests for each window to verify proper navigation and object states for each application window and objects.
Technique:	Use various window sizes to check your website's layout
	Create / modify tests for each window to verify proper navigation and object states for each application window and objects.
Completion Criteria:	Each window successfully verified to remain consistent with benchmark version or within acceptable standard

3. Configuration Testing

Test Objective:	Configuration testing verifies operation of the software on different software and hardware configurations
	Functions and layout of buttons, images work well with each screen size
Technique:	Use many different browsers such as Firefox, Google Chrome, ... on different operating systems to conduct the test

Completion Criteria:	For each combination of the Prototype and PC application, transactions are successfully completed without failure.

3. Environmental Needs

This section presents the non-human resources required for the **Test Plan**.

3.1 Hardware Requirements

- Operating system: Windows 10, Windows 11 (recommended)
- RAM: 2GB or more

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	Run web application	103.0	Internet Browser
Google Chrome	Run web application	103.0.5060	Internet Browser
Microsoft Edge	Run web application	103.0.1264.71	Internet Browser
Windows 10, 64 bit	Check if the web application is compatible with this OS	21H2	Operating System
Windows 11, 64 bit	Check if the web application is compatible with this OS	21H2	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	MS	2016 or later
Prepare test plan	MS Word	MS	2016 or later
Automation Testing	Katalon Studio	Katalon LLC	7.0 or later

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 / Test Leader	1 (Phan Tuấn Khải)	Provides management oversight. Responsibilities include:

Human Resources		
Role	**Minimum Resources Recommended** (number of full-time roles allocated)	**Specific Responsibilities or Comments**
		• planning and logistics • agree mission • identify motivators • acquire appropriate resources • present management reporting • advocate the interests of test • evaluate effectiveness of test effort
Tester	4 (All members)	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 designer	4 (All members)	Identifies, prioritizes, and implements test cases Responsibilities: • Generate test plan • Generate test model • Evaluate effectiveness of test effort