**International School**

**Capstone Project 2**

CMU-SE 451

**Test Plan**

**Version 1.4**

**Date: 25nd May, 2021**

**Food Care**

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**PROJECT INFORMATION**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project acronym** | FC | | |
| **Project Title** | Food Care | | |
| **Start Date** | 01 Mar, 2021 | **End Date** | 25 May, 2021 |
| **Lead Institution** | International School, Duy Tan University | | |
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REVISION HISTORY

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| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Comments** | **Author** | **Approval** |
| 1.0 | 02/03/2021 | Initial Release | Duan, Dang Van |  |
| 1.1 | 12/03/2021 | Update for sprint 1 | Duan, Dang Van |  |
| 1.2 | 10/04/2021 | Update for sprint 2 | Duan, Dang Van |  |
| 1.3 | 13/05/2021 | Update for sprint 3 | Duan, Dang Van |  |
| 1.4 | 22/05/2021 | Final | Vinh, Huynh Dac |  |
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**Document Approval**

The following signatures are required for approval of this document

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| **Mentor** | Dang Viet Hung | Date: |
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# **1. Introduction:**

A test plan is a detailed software verification document that provides specifics on how the validate will test all aspects of the software design. This test plan document contains a description of test cases to be written for each function, and a description of the testing platform to be used.

## **1.1. Purpose:**

The purpose of the Test Plan is to define, schedule and monitor the test execution. It supports the following objectives:

* Provide a list of test functions.
* List the Requirements for Test.
* Describe the testing strategies to test functions.
* Identify the required resources and schedule the Test execution

## **1.2. References:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Reference** | **Document Information** |
| 1 | Test plan Template | Test plan template of Hung from mentor |
| 2 | Proposal | C2SE.18-Proposal\_Ver.1.1 |
| 3 | Product Backlog | C2SE.18-ProductBacklog\_Ver.1.0 |
| 4 | Project Plan | C1SE.18-ProjectPlan\_Ver.1.0 |

## **1.3. Background information:**

As introduced in the Proposal document, there are many things all the members in the team must do. However, the project duration is 3 months. This project has a scope to meet the time constraint.

## **1.4. Scope of testing:**

This Test Plan is for release TEST PLAN FOR SECURE Food Care – Diet Building System. The Test Plan defines the unit, system testing approach. The test scope includes the following:

* Testing of all functions, application performance and use cases requirements listed in the Product Backlog document
* Quality requirements and fit “Food Care system” metrics
* End-to-end testing of “Food Care system” Platform

## **1.5. Risk list:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Risk** | **The plan for corrective** | **The level of influence** |
| **1** | **Time** | Work overtime on Sunday | High |
| **2** | **Experience** | Experience sharing used to reduce the research time. | Medium |

# **2. Requirements for test**

## **2.1. Test items:**

The following list describes the features that will be tested:

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Function** | **Type test case** | **Note** |
| **1** | **Sprint1** |  |  |
| 1.1 | Design test case for " Register" | User interface, Function Test |  |
| 1.2 | Design test case for "Login for user " | User interface, Function Test |  |
| 1.3 | Design test case for "Logout " | User interface, Function Test |  |
| 1.4 | Design test case for " Change password" | User interface, Function Test |  |
| 1.5 | Design test case for "Reset password " | User interface, Function Test |  |
| 1.6 | Design test case for " Edit profile" | User interface, Function Test |  |
| 1.7 | Design test case for "Filter food " | User interface, Function Test |  |
| 1.8 | Design test case for "Search food " | User interface, Function Test |  |
| 1.9 | Design test case for "View food detail " | User interface, Function Test |  |
| 1.10 | Design test case for "Add food favorite list " | User interface, Function Test |  |
| 1.11 | Design test case for "View favorite list " | User interface, Function Test |  |
| 1.12 | Design test case for "Remove food favorite list" | User interface, Function Test |  |
| 1.13 | Design test case for "Create custom food" | User interface, Function Test |  |
| 1.14 | Design test case for " Update custom food" | User interface, Function Test |  |
| 1.15 | Design test case for "Remove custom food " | User interface, Function Test |  |
| 1.16 | Test " Register" | User interface, Function Test |  |
| 1.17 | Test "Login for user " | User interface, Function Test |  |
| 1.18 | Test "Logout " | User interface, Function Test |  |
| 1.19 | Test " Change password" | User interface, Function Test |  |
| 1.20 | Test "Reset password " | User interface, Function Test |  |
| 1.21 | Test " Edit profile" | User interface, Function Test |  |
| 1.22 | Test "Filter food " | User interface, Function Test |  |
| 1.23 | Test "Search food " | User interface, Function Test |  |
| 1.24 | Test "View food detail " | User interface, Function Test |  |
| 1.25 | Test "Add food favorite list " | User interface, Function Test |  |
| 1.26 | Test "View favorite list " | User interface, Function Test |  |
| 1.27 | Test "Remove food favorite list" | User interface, Function Test |  |
| 1.28 | Test "Create custom food" | User interface, Function Test |  |
| 1.29 | Test " Update custom food" | User interface, Function Test |  |
| 1.30 | Test "Remove custom food " | User interface, Function Test |  |
| **2** | **Sprint2** |  |  |
| 2.1 | Design test case for "Add food menu " | User interface, Function Test |  |
| 2.2 | Design test case for " Remove food to menu" | User interface, Function Test |  |
| 2.3 | Design test case for "view collection " | User interface, Function Test |  |
| 2.4 | Design test case for "Create collection " | User interface, Function Test |  |
| 2.5 | Design test case for "Remove collection " | User interface, Function Test |  |
| 2.6 | Design test case for "Add to collection " | User interface, Function Test |  |
| 2.7 | Design test case for "Remove food collection " | User interface, Function Test |  |
| 2.8 | Design test case for "Request to public food " | User interface, Function Test |  |
| 2.9 | Design test case for "List requested food " | Admin interface, Function Test |  |
| 2.10 | Design test case for "Withdraw requested food " | Admin interface, Function Test |  |
| 2.11 | Test "Add food menu " | User interface, Function Test |  |
| 2.12 | Test "view collection " | User interface, Function Test |  |
| 2.13 | Test "Create collection " | User interface, Function Test |  |
| 2.14 | Test "Remove collection " | User interface, Function Test |  |
| 2.15 | Test "Add to collection " | User interface, Function Test |  |
| 2.16 | Test "Remove food collection " | User interface, Function Test |  |
| 2.17 | Test "request to public food " | User interface, Function Test |  |
| 2.18 | Test "List requested food " | Admin interface, Function Test |  |
| 2.19 | Test "Withdraw requested food " | Admin interface, Function Test |  |
| **3** | **Sprint3** |  |  |
| 3.1 | Design test case for "Login for admin " | Admin interface, Function Test |  |
| 3.2 | Design test case for " Change password" | Admin interface, Function Test |  |
| 3.3 | Design test case for "View all users " | Admin interface, Function Test |  |
| 3.4 | Design test case for "Ban user " | Admin interface, Function Test |  |
| 3.5 | Design test case for "View all food " | Admin interface, Function Test |  |
| 3.6 | Design test case for "Approve food " | Admin interface, Function Test |  |
| 3.7 | Design test case for "Create food" | Admin interface, Function Test |  |
| 3.8 | Design test case for "Update food " | Admin interface, Function Test |  |
| 3.9 | Design test case for "Delete food " | Admin interface, Function Test |  |
| 3.10 | Design test case for "Receive recommended menu" | Admin interface, Function Test |  |
| 3.11 | Test "Login for admin " | Admin interface, Function Test |  |
| 3.12 | Test "Change password " | Admin interface, Function Test |  |
| 3.13 | Test "view all users " | Admin interface, Function Test |  |
| 3.14 | Test "ban user " | Admin interface, Function Test |  |
| 3.15 | Test "View all food " | Admin interface, Function Test |  |
| 3.16 | Test "Approve food " | Admin interface, Function Test |  |
| 3.17 | Test "Create food " | Admin interface, Function Test |  |
| 3.18 | Test "Update food " | Admin interface, Function Test |  |
| 3.19 | Test "delete food " | Admin interface, Function Test |  |
| 3.20 | Test "Receive recommended menu" | Admin interface, Function Test |  |

**(\*) Team acronym– F: Team name**

**3. Test Cycle Entry and Exit Criteria**

## **3.1. Entry Criteria**

* All test hardware platforms must have been successfully installed, configured, and functioning properly.
* All the necessary documentation, design, and requirements information should be available that will allow testers to operate the system and judge the correct behavior.
* Proper test cases are available.
* The test environment such as, lab, hardware, software, and system administration support should be ready.

## **3.2. Exit Criteria**

* All test cases have been run.
* A certain level of requirements coverage has been achieved.
* No high priority or severe bugs are left outstanding.
* All high-risk areas have been fully tested, with only minor residual risks left outstanding.
* The schedule has been achieved.

# **4. Test strategy**

## **4.1. Test stages:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Types** | **Test Stages** | | |
| **Unit** | **Integration** | **Acceptance** |
| Functional Tests | X | X | X |
| User Interface | X | X | X |
| Reliability   * Integrity * Structure | X | X |  |

## **4.2. Tools**

|  |  |  |  |
| --- | --- | --- | --- |
| **Purpose** | **Tool** | **Vendor** | **Version** |
| Microsoft Excel is used to write Test Plans and Test Cases. | Microsoft Excel 2016 | Microsoft |  |
| Selenium IDE is a Firefox add-on developed originally by Shinya Kasatani as a way to use the original Selenium Core without having to copy Selenium Core onto the server | Selenium | Selenium Open Source |  |

# **5. Resource**

## **5.1. Human Resource**

|  |  |  |
| --- | --- | --- |
| **The role** | **Resource** | **Specific responsibilities** |
| Tester |  | Executes the tests. Responsibilities include:   * Execute test suites * Log results * Analyze and recover from test failures * Document incidents |

# **6. Test Milestone**

|  |  |  |
| --- | --- | --- |
| Milestone Task | Date Start | Date Finish |
| Test plan and test case for Sprint 1 | 08 Mar | 02 Apr |
| Test plan and test case for Sprint 2 | 05 Apr | 28 Apr |
| Test plan and test case for Sprint 3 | 03 May | 22 May |