

**International School**

**Capstone Project 2**

**CMU-SE 451 – C2SE.12**

**Test Plan Sprint 1**

**Version 1.1**

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**Learn English Together**

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**PROJECT INFORMATION**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project acronym** | LET | | |
| **Project Title** | Learn English Together | | |
| **Start Date** | 26 Feb 2021 | **End Date** | 08 Jun 2021 |
| **Lead Institution** | International School, Duy Tan University | | |
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**DOCUMENT APPROVALS**

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REVISION HISTORY

| **Version** | **Date** | **Comments** | **Author** |
| --- | --- | --- | --- |
| 1.0 | April 11th, 2021 | Initial Release | Ngoc My Ngo |
| 1.1 | April 15th, 2021 | Update | Ngọc My Ngo |

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1. Introduce

This document is the Test Plan for the Leaning English Together Website project, presented by Quality Assurance. It describes the testing strategy and approach to testing QA will use to validate this product's pre-release. It also contains the various resources needed to successfully complete this project.

* 1. Purpose

The purpose of this document is to provide an overview and guidance for the Website Learning English Together - Test Plan project. The objective is also to establish a level of general understanding to the client of the testing procedure addressed in this document.

* 1. Limit

This Test Plan is for 1.1 release

Sprint 1 includes 11 functions:

* Main Menu
* Login for users
* Register for users
* Profile for users
* Group for users
* Message

1.3 References

|  |  |  |  |
| --- | --- | --- | --- |
| **STT** | **References** | **Document information** | **Note** |
| 1 | Documentation User Stories | This document provides a user story and goal-oriented perspective of the Learning English Together Website Project |  |
| **2** | Sprint Backlog document | A list of tasks determined by the Scrum Team to be completed in each sprint. |  |

2. Test Plan

2.1 Test outline

* + Unit testing
  + Functional test
  + Test the user interface
  + Test configuration
  + Acceptance test

2.2 Test requirement

The following list describes the functions that will be tested for

Sprint 1:

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Function** | **Test case type** | **Note** |
| FC01 | Main Menu | * Test the user interface * Functional test * Acceptance test |  |
| FC02 | Login for users | * Test the user interface * Functional test * Acceptance test |  |
| FC03 | Register for users | * Test the user interface * Functional test * Acceptance test |  |
| FC04 | Profile for users | * Test the user interface * Functional test * Acceptance test |  |
| FC05 | Group for users | * Test the user interface * Functional test * Acceptance test |  |
| FC06 | Message | * Test the user interface * Functional test * Acceptance test |  |

3. Test strategy

* The test strategy presented is the method to test the system.
* Test requirement must describe what should be tested; Test strategy outlines the ways that are used for testing.
* In this section, techniques and standards for assessment are the main content that needs attention...

3.1 Test type

3.1.1 Unit test

* Unit testing is a procedure used to determine if the source code (units) of software is working properly
* Unit testing is done by developers.

|  |  |
| --- | --- |
| **Test objectives:** | Make sure the source code is working without errors, working well |
| **Skill:** | All functions, methods, processes, and classes are subjected to testing to ensure there are no risks and must be carefully tested and made sure that any minor errors are not ignored. |
| **Completion criteria:** | Debugging with no errors  All functions, methods, classes, procedures are 100% |
| **Special considerations:** |  |

* + 1. Functional test

Functional testing will be performed to verify all functional requirements have been met successfully. This will be done through black box testing.

|  |  |
| --- | --- |
| **Technical objectives:** | Verify system functional requirements. |
| **Skill:** | * Use the Black Box test * Design test cases to perform functional testing * Based on user stories to create test cases for the functional system: * Image Carousel * Medical Report Online * View latest new * View map of number statistics about Covid-19 in Viet Nam * View evolution of the disease * Patients details cases * New Video * Image Collection * View number of statistics about Covid-19 in patients * View information of support medical center related to COVID-19 * Regular Questions |
| **Oracles:** |  |
| **Required tools:** | * Instructions for use Test |
| **Success criteria:** | All of the following have been tested successfully:  All major use cases  • All major features |

* + 1. Test the user interface

User interface (UI) testing verifies user interaction with software. The goal of UI testing is to ensure that the UI provides users with proper access and navigation through the test target's functions. Additionally, UI testing ensures that the objects in the UI functionality are as expected and conform to company or industry standards.

|  |  |
| --- | --- |
| **Technical goals:** | Do the following to observe and record conformance to standard and target behavior:  Navigating through business requirements and functions that reflect test goals, covering from window to window, field to field, and use of access methods (tab keys, mouse movements, keys acceleration).   * Window objects and properties can be moved such as menu, size, position, status, and focus. |
| **Skill:** | Create or modify tests for each window to verify navigation and object status appropriate for each window and application object. |
| **Oracles:** | The tester will verify the matching function based on the requirement. |
| **Required tools:** |  |
| **Success criteria:** | All windows objects can be done, properly navigated through test target and test target works as expected. |

* + 1. Test configuration

Test Configuration Verify that the test target works correctly under different software configurations and interacts with different software.

|  |  |
| --- | --- |
| **Technical goals:** | Accurately verify the test target functionality on different platforms and in different configurations. |
| **Skill:** | * Execute unrelated software on the same platform as the test target to verify no side effects. |
| **Oracles:** | Test target behavior. |
| **Required tools:** | This technique requires the following tools:   * Restore and restore the base configuration * Install monitoring tool (registry, hard disk, CPU, memory, etc.) |
| **Success criteria:** | The test target worked as expected, and the software that wasn't the test target worked as expected |

* + 1. **Acceptance test**

Please refer to Acceptance Check attached in the documentation

* 1. Test tool

|  |  |  |
| --- | --- | --- |
| **Work** | **Tools** | **Company** |
| Manage test activities | Excel | Microsoft |
| Project management | Trello, Slack | Swap Up, Stewart Butterfield |
| Database system management | Mongoose DB | Microsoft |
| Test GUI | Test it manually |  |

3.3 Technical inspection (Equipment and hardware)

|  |  |  |  |
| --- | --- | --- | --- |
| **Purpose** | **Tools** | **Describe** | **Version** |
| The Run commands | Browser | Testing web | Internet Explorer, Chrome |

3.4 Pass / fail condition

A test case will have the script action, the condition, the input value, and the expected result.

• If the result of the test case is sequentially the same as the input provided, the result is correct with the expected result => Pass

• If result is failed, or differs from expected result => Fail

4. Test source

|  |  |  |
| --- | --- | --- |
| **Role** | **Assigned to** | **Responsibility** |
| **Scrum master** | Thanh Ha, Le | Provide management supervision for the project.  • Define control points for error handling  • Acquire the right resources for testing  • Provide management reports |
| **Tester** | Ngoc My, Ngo | Provide management supervision for testing. Ensures that the identified testing activities are traceable to the defined functional / business requirements.  • Identify what information people need to write and support.  • System / function test, integration and system.  • Test management  • Test planning  • Evaluation and coordination of testing strategies |

5. Test schedule

5.1 Test plan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Milestone Task** | **Responsible** | **Start day** | **End day** |
| Main menu | Test Plan | My, Ngo Ngoc | **09/04/2021** | **09/04/2021** |
| Test case | My, Ngo Ngoc | **09/04/2021** | **09/04/2021** |
| Execute Test case | My, Ngo Ngoc | **09/04/2021** | **09/04/2021** |
| Login | Test Plan | My, Ngo Ngoc | **09/04/2021** | **09/04/2021** |
| Test case | My, Ngo Ngoc | **09/04/2021** | **09/04/2021** |
| Execute Test case | My, Ngo Ngoc | **09/04/2021** | **09/04/2021** |
| Register | Test Plan | My, Ngo Ngoc | **10/04/2021** | **10/04/2021** |
| Test case | My, Ngo Ngoc | **10/04/2021** | **10/04/2021** |
| Execute Test case | My, Ngo Ngoc | **10/04/2021** | **10/04/2021** |
| Groups | Test Plan | My, Ngo Ngoc | **10/04/2021** | **10/04/2021** |
| Test case | My, Ngo Ngoc | **10/04/2021** | **10/04/2021** |
| Execute Test case | My, Ngo Ngoc | **10/04/2021** | **10/04/2021** |
| Message | Test Plan | My, Ngo Ngoc | **11/04/2021** | **11/04/2021** |
| Test case | My, Ngo Ngoc | **11/04/2021** | **11/04/2021** |
| Execute Test case | My, Ngo Ngoc | **11/04/2021** | **11/04/2021** |