

International School

**Capstone Project 1**

CMU-SE 450/CMU-IS 450/CMU-CS450

**Test Plan Sprint 3 Document**

**Version 1.0**

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**UNIVERSITY REVIEWS**

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**PROJECT INFORMATION**

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| --- | --- | --- | --- |
| Project acronym | URs | | |
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1. **Introduction**

This document is the Test Plan for the University Reviews - URs project. 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 University Reviews - URs - 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. **Scope**

This Test Plan is for release 1.0

Sprint 3 includes 7 functions :

* View information about the school
* View the school’s major
* View the tuition
* Access to the system by my account
* Log out system
* Post information to my university
* Update information

**1.3 References Document**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **References** | **Document information** | **Note** |
| 1 | User Stories Document | This document provides a user story and a goal-oriented perspective of the University Reviews - URs project |  |
| **2** | Sprint Backlog Document | A list of tasks determined by the Scrum Team to be completed in each sprint. |  |

1. **Test Plan**

## Test outline

• Unit testing

• Functional test

• Test the user interface

• Test configuration

• Acceptance test

* 1. **Test requirements**

The following list describes the functionality that will be tested for Sprint 3:

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Function** | **Test case type** | **Note** |
| FC01 | View information about the school | * Test the user interface * Functional test * Acceptance test |  |
| FC02 | View the school’s major | * Test the user interface * Functional test * Acceptance test |  |
| FC03 | View the tuition | * Test the user interface * Functional test * Acceptance test |  |
| FC04 | Access to the system by my account | * Test the user interface * Functional test * Acceptance test |  |
| FC05 | Log out system | * Test the user interface * Functional test * Acceptance test |  |
| FC06 | Post information to my university | * Test the user interface * Functional test * Acceptance test |  |
| FC07 | Update information | * Test the user interface * Functional test * Acceptance test |  |

1. **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.

* 1. **Test type**
     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 the 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:** | None |

* + 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. |
| **Technical** | * Use the Black Box test * Design test case to perform a functional test * Based on user stories to create test cases for the functional system: * View information about the school * View the school’s major * View the tuition * Access to the system by my account * Log out system * Post information to my university * Update information |
| **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 the 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 objectives:** | 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 menus, size, position, status, and focus. |
| **Technical** | 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 objectives:** | Accurately verify the test target functionality on different platforms and in different configurations. |
| **Technical** | Execute unrelated software on the same platform as a 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 tools**

|  |  |  |
| --- | --- | --- |
| **Activity** | **Tools** | **Company** |
| Manage test activities | Excel | Microsoft |
| Project management | Word , Excel , Project Planer | Microsoft |
| Database system management | MongoDB | Microsoft |
| Test GUI | Test it manually |  |

* 1. **Technical inspection (Equipment and hardware)**

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

* 1. **Pass / fail condition**

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

• If the results of the script of the test case week as the data start to be given, give the correct result with the expected result => Pass.

• If the result is failed, or other with the output project => Fail.

1. **Test source**

|  |  |  |
| --- | --- | --- |
| **Role** | **Assigned to** | **Responsibility** |
| **Scrum master** | Toi, Nguyen Van Minh | Provide management supervision for the project.  • Define control points for error handling  • Acquire the right resources for testing  • Provide management reports |
| **Tester** | Thien, Nguyen Huu  Thuong, Huynh Thi Quy  Sang, Ho Xuan | Provide management supervision for testing. Ensures that the identified testing activities are traceable to the defined functional / business requirements.  • Determine the requirements for and establish the mage of the developed test environment.  • System/function test, integration, and system.  • Test management  • Test planning  • Evaluation and coordination of testing strategies |

1. **Test schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Milestone Task** | **Responsible** | **Start day** | **End date** |
| * View information about the school * View the school’s major * View the tuition | Test Plan | Thuong, Huynh Thi Quy | **22/10/2020** | **22/10/2020** |
| Test case | Sang, Ho Xuan | **26/10/2020** | **26/10/2020** |
| Execute Test case | Toi, Nguyen Van Minh  Thien, Nguyen Huu | **27/10/2020** | **27/10/2020** |
| * Access to the system by my account * Log out system | Test Plan | Thuong, Huynh Thi Quy | **22/10/2020** | **23/10/2020** |
| Test case | Sang, Ho Xuan | **28/10/2020** | **28/10/2020** |
| Execute Test case | Toi, Nguyen Van Minh  Thien, Nguyen Huu | **29/10/2020** | **29/10/2020** |
| * Post information to my university * Update information | Test Plan | Thuong, Huynh Thi Quy | **23/10/2020** | **23/10/2020** |
| Test case | Sang, Ho Xuan | **30/10/2020** | **30/10/2020** |
| Execute Test case | Toi, Nguyen Van Minh  Thien, Nguyen Huu | **31/10/2020** | **31/10/2020** |