

# International School

**Software Process & Quality Management**

**CMU-SE 433 SAIS**

**Test Plan Sprint 2**

**Version 1.1 Date: July 2, 2025**

**Hotel Management System**

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## PROJECT INFORMATION

|  |  |  |  |
| --- | --- | --- | --- |
| **Project acronym** | HMS | | |
| **Project Title** | Hotel Management System | | |
| **Start Date** | June 12, 2025 | **End Date** | July 23, 2025 |
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**REVISION HISTORY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Comments** | **Author** |
| 1.0 | July 1, 2025 | Initial Release | Truong Thi My Quyen |
| 1.1 | July 2, 2025 | Update | Truong Thi My Quyen |

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## 1. Introduce

This document is the Test Plan for the Hotel Management System 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.

## Purpose

The purpose of this document is to provide an overview and guidance for the Website Hotel Management System - 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.

## 1.2 Limit

This Test Plan is for 1.1 release Sprint 2 includes 5 functions:

* **Payment Processing**
* **Billing Adjustments**
* **Payment History & Receipts**
* **Service Request Handling**
* **Housekeeping Task Tracking**

## 1.3 References

## Table 1. 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

**Table 2.** The following list describes the functions that will be tested for Sprint 2

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Function** | **Test case type** | **Note** |
| **FC01** | Payment Processing | * Test the user interface * Functional test * Acceptance test | Validate the entire payment flow from UI interaction to backend processing. |
| **FC02** | Billing Adjustments | * Test the user interface * Functional test * Acceptance test | Ensure invoice adjustment updates are handled and reflected correctly. |
| **FC03** | Payment History & Receipts | * Test the user interface * Functional test * Acceptance test | Verify that historical payment data and receipts are displayed accurately. |
| **FC04** | Service Request Handling | * Test the user interface * Functional test * Acceptance test | Test the creation, processing, and status flow of service requests. |
| **FC05** | Housekeeping Task Tracking | * Test the user interface * Functional test * Acceptance test | Validate scheduling, status tracking, and updates for housekeeping tasks. |

**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

## 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.

**Table 3.** *Test Objectives and Criteria Table*

|  |  |
| --- | --- |
| **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:** |  |

## 3.1.2 Functional test

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

**Table 4.** *Test Objectives and Criteria Table*

|  |  |
| --- | --- |
| **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 |

### **3.1.3 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.

**Table 5.** *Test Objectives and Criteria Table*

|  |  |
| --- | --- |
| **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. |

**3.1.4 Test configuration**

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

**Table 6.** Test configuration

|  |  |
| --- | --- |
| **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 |

## 3.2 Test tool

**Table 7.** *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)

**Table 8.** *Technical inspection*

|  |  |  |  |
| --- | --- | --- | --- |
| **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

## Table 9. *Roles and Responsibilities Table for Test Activities*

|  |  |  |
| --- | --- | --- |
| **Role** | **Assigned to** | **Responsibility** |
| **Scrum master** | Lanh, Đo | Provide management supervision for the project.   * Define control points for error handling * Acquire the right resources for testing * Provide management reports |
| **Tester** | | Thi My Quyen, Truong | 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

## Test plan

## Table 10. *Test Activities and Milestone Schedule*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Milestone Task** | **Responsible** | **Start day** | **End day** |
| **Payment Processing** | Test Plan | Quyen, Truong Thi My | **11/07/2025** | **11/07/2025** |
| Test case | Quyen, Truong Thi My | **11/07/2025** | **11/07/2025** |
| Execute Test case | Quyen, Truong Thi My | **11/07/2025** | **11/07/2025** |
| **Billing Adjustments** | Test Plan | Quyen, Truong Thi My | **11/07/2025** | **11/07/2025** |
| Test case | Quyen, Truong Thi My | **11/07/2025** | **11/07/2025** |
| Execute Test case | Quyen, Truong Thi My | **11/07/2025** | **11/07/2025** |
| **Payment History & Receipts** | Test Plan | Quyen, Truong Thi My | **12/07/2025** | **12/07/2025** |
| Test case | Quyen, Truong Thi My | **12/07/2025** | **12/07/2025** |
| Execute Test case | Quyen, Truong Thi My | **12/07/2025** | **12/07/2025** |
| **Service Request Handling** | Test Plan | Quyen, Truong Thi My | 12/07/2025 | **12/07/2025** |
| Test case | Quyen, Truong Thi My | 12/07/2025 | **12/07/2025** |
| Execute Test case | Quyen, Truong Thi My | 12/07/2025 | **12/07/2025** |
| **Housekeeping Task Tracking** | Test Plan | Quyen, Truong Thi My | 12/07/2025 | **12/07/2025** |
| Test case | Quyen, Truong Thi My | 12/07/2025 | **12/07/2025** |
| Execute Test case | Quyen, Truong Thi My | 12/07/2025 | **12/07/2025** |