**Capstone Project Report**

**Report 5 – Software Test Documentation**

– Ho Chi Minh, September 2024 –

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# **I. Record of Changes**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | A\*  M, D | In charge | Change Description |
| 10/10/2024 | A | Trình Vĩnh Phat | Initialize document |
| 11/10/2024 | A | Đoàn Tiến Phát | Added content:   * Scope of Testing * Test Strategy * Test Plan * Test Cases & Test Reports |
| 11/10/2024 | M | Vũ Ngọc Hải Đăng | Modified Test Strategy |
| 11/10/2024 | M | Phạm Trần Sơn Nguyên | Modified Test Plan |
| 10/10/2024 | A | Nguyên An Khánh | Initialize document |
| 11/10/2024 | A | Đoàn Tiến Phát | Added content:   * Scope of Testing * Test Strategy |
| 11/10/2024 | A | Phạm Trần Sơn Nguyên | Added content:   * Test Plan * Test Cases & Test Reports |
|  |  |  |  |

\*A - Added M - Modified D - Deleted

# V. Software Testing Documentation

## 1. Overall Description

**1.1. Test Model**

In the SCSS Project, we apply Agile testing for the following purposes:  Quickly adapt to projects that changed rapidly and continuously.  Test cases are ready for execution when finishing the implementation.  Detecting errors in the system early allows for quick correction.

**1.2. Test Levels**

Integration testing: Ensure every module works appropriately together in the system.

System testing: Ensure that the SCSS system meets the design specification and other requirements.

**1.3. Testing Types**

Functional test: Ensure that all functions in the system meet its requirements.

User Interface test: Ensure that all elements of the UI are correctly presented.

## 2. Test Strategy

### 2.1. Testing Types

Functional test: Ensure that all functions in the system meet its requirements.

API test: Ensure that all APIs in the system process and return required data correctly.

User Interface test: Ensure that all elements of the UI are correctly presented.

### 2.2. Test Levels

Table 179 - Test Levels

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of Tests** | **Test Level** | | |
| **Integration** | **System** | **Acceptance** |
| Function test | X | X | X |
| User interface test | X | X | X |

**2.3. Supporting Tools**

Table 180 - Supporting Tools

|  |  |  |  |
| --- | --- | --- | --- |
| Purpose | Tool | Vendor/In-house | Version |
| User interface testing on web application | Google Chrome | Vendor (Google) | 124.0.6367.60 |
| User interface testing on mobile application | Android Emulator | Vendor (Android Studio) | 9.0 |
| User interface testing on mobile application | Physical mobile device | Vendor (Android Device) | 9.0 |
| API test, Integration test | Postman | Vendor (Postman) | 11.18 |

## 3. Test Plan

### 3.1. Human Resources

Table 181 - Human Resources

|  |  |  |
| --- | --- | --- |
| **Worker/Doer** | **Role** | **Specific Responsibilities/Comments** |
| Trình Vĩnh Phát | Leader | Planning, assigning test functions to members and verifying test results. |
| Vũ Ngọc Hải Đăng | Member | Execute test and report |
| Đoàn Tiến Phát | Member | Execute test and report |
| Phạm Trần Sơn Nguyên | Member | Execute test and report |
| Nguyễn An Khánh | Member | Execute test and report |

**3.2. Test Environment**

Table 182 - Test Environment

|  |  |  |  |
| --- | --- | --- | --- |
| **Purpose** | **Tool** | **Provider** | **Version** |
| User interface testing on web application | Google Chrome | Google Chrome | 119.0.6045.200 |
| User interface testing on mobile application | Android Emulator  Physical mobile device | Android studio Android Device | 9.0 |
| API test, Integration test | Postman | Postman | 11.18 |

**3.3. Test Milestones**

Table 183 - Test Milestones

|  |  |  |
| --- | --- | --- |
| **Milestone Task** | **Start Date** | **End Date** |
| Create test plan | 15/10/2024 | 21/10/2024 |
| Create test cases for Web application | 21/10/2024 | 20/11/2024 |
| Create test cases for APIs | 20/11/2024 | 29/11/2024 |
| Create test cases for Mobile application | 29/11/2024 | 05/12/2024 |
| Create report for testing | 05/12/2024 | 10/12/2024 |

## 4. Test Cases & Test Reports

Test Cases & test reports:[GFA24SE27-Test-Report](https://docs.google.com/spreadsheets/d/1hvsthMjcUTw9Bgdl9XRwjIgiAAiwfSyVjGNcgt06Gzo/edit?usp=sharing)