

**Capstone Project Report**

**Report 5 – Software Test Documentation**

– Ho Chi Minh, September 2023 –

**Table of Contents**

[I. Record of Changes 3](#_Toc146575667)

[II. Testing Documentation 4](#_Toc146575668)

[1. Scope of Testing 4](#_Toc146575669)

[1.1 In scope 4](#_Toc146575670)

[1.2 Out of scope 6](#_Toc146575671)

[2. Test Strategy 6](#_Toc146575672)

[2.1 Testing Types 6](#_Toc146575673)

[2.2 Test Levels 6](#_Toc146575674)

[2.3 Supporting Tools 7](#_Toc146575675)

[3. Test Plan 7](#_Toc146575676)

[3.1 Human Resources 7](#_Toc146575677)

[3.2 Test Environment 7](#_Toc146575678)

[3.3 Test Milestones 7](#_Toc146575679)

[4. Test Cases & Test Reports 9](#_Toc146575680)

# I. Record of Changes

|  |  |  |  |
| --- | --- | --- | --- |
| Date | A\* M, D | In charge | Change Description |
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\*A - Added M - Modified D - Deleted

# II. Testing Documentation

## 1. Scope of Testing

### 1.1 In scope

Below are the functional and non-functional requirements described in the Software Requirement Specs that will be tested:

|  |  |  |
| --- | --- | --- |
| **Module name** | **Applicable Role** | **Description** |
| Login | Unauthorised user | **Unauthorised user:** when an unauthorised user that has an account in the system and wants to join in with the given role. |
| Logout | Authorised user | **Authorised user:** when an unauthorised user that has an account in the system and wants to end the session. |
| Register account | Unauthorised user | **Unauthorised user:** when an unauthorised user that does not have an account and wants to join in the system with the default role “User”. |
| Create a conference | Admin | **Admin:** Admin can create conferences with information. |
| Configure conference settings | PC Chair | **PC Chair:** Just only PC Chair can configure conference settings. |
| Add a conference user | PC Chair | **PC Chair:** Only PC Chair can add user to conference. |
| Modify a conference's track list | PC Chair | **PC Chair:** Just only PC Chair can modify track list in conference. |
| Create a track plan | PC Chair | **PC Chair:** PC Chair can create track plan for the conference. |
| Update activity timeline | PC Chair | **PC Chair:** Just only PC Chair can update activity timeline. |
| Configure track settings | PC Chair | **PC Chair:** Just only PC Chair can configure track. |
| Create a subject area | PC Chair | **PC Chair:** Just only PC Chair can add subject area to conference. |
| Create a submission question | PC Chair | **PC Chair:** PC Chair can create submission question. |
| Add decision-making criteria | PC Chair | **PC Chair:** PC Chair can add criteria for decision making. |
| Create a website navbar | Admin | **Admin:** Admin can create navbar for conference website. |
| Update a web page content | Admin | **Admin:** Admin can update content for the website. |
| Export a website's content | Admin | **Admin:** Admin can export website. |
| Submit a conference paper | PC Chair, Author | **PC Chair:** PC chair can submit paper for author in conference. Author: Author can submit paper in conference. |
| Detect submission conflicts of interest | PC Chair | **PC Chair:** PC Chair can check for conflict of reviewer. |
| Declare submission conflicts of interest | PC Chair, Author | **PC Chair:** PC Chair can declare conflicts of interest of submissions with reviewers. Author: Author can declare conflicts of interest of their submission with reviewers. |
| Submit supplementary materials | PC Chair, Author | **PC Chair:** PC Chair can submit supplementary for submissions in conference. **Author**: Author can submit supplementary for their submissions. |
| Aggregate conference submissions | PC Chair, Author, Reviewer | **PC Chair:** PC Chair can view submissions in the conference. **Author**: Author can view submissions submit to the conference. **Reviewer**: Reviewer can view submissions assigned to review. |
| Make statistical information about conference submissions | PC Chair | **PC Chair:** PC Chair can view statistic of conference. |
| Suggest reviewers for a submission's reviewing activity | PC Chair | **PC Chair:** PC Chair can view reviewers suggest by system. |
| Assign reviewers for a submission | PC Chair | **PC Chair:** Just only PC Chair can assign reviewers for submission. |
| Get a reviewer's list of assigned papers | PC Chair | **PC Chair:** PC Chair can view list of reviewers. |
| Submit a review | Reviewer | **Reviewer:** Reviewer can submit a review for submissions. |
| Detect review issues | PC Chair | **PC Chair:** PC Chair can view reviewers review. |
| Aggregate reviews of a submission | PC Chair | **PC Chair:** PC Chair can view reviews of a submission. |
| Decide on a paper | PC Chair | **PC Chair:** PC Chair can finalize paper decision. |
| Send decision result notification to authors | PC Chair | **PC Chair:** PC Chair can send mail notification result to authors. |
| View email history | PC Chair | **PC Chair:** PC Chair can view email sent in conference. |
| Submit a revision | Author | **Author:** Author can submit revision. |
| Request for camera ready submission | PC Chair | **PC Chair:** Just only PC Chair can request for camera ready for submission. |
| Notify authors for camera ready submission | Author | **Author:** Author can view camera ready submission notification. |
| Submit the camera ready version of a submission | PC Chair, Author | **PC Chair:** PC Chair can submit camera ready for submissions in conference. **Author**: Author can submit camera ready for their submissions. |
| Register papers to the list of manuscripts-expected-to-appear-in-conference-proceeding | Author | **Author:** Just only Author can register papers. |
| Request for presentation submission | PC Chair | **PC Chair:** Just only PC Chair can request for presentation for submission. |
| Notify authors for presentation submission | Author | **Author:** Author can view presentation notification. |
| Submit the presentation of a submission | PC Chair, Author | **PC Chair:** PC Chair can submit presentation for submissions in conference. **Author**: Author can submit presentation for their submissions. |
| Track essential activities and tasks required during any conference phase | PC Chair | **PC Chair:** PC Chair can view tasks required during phase. |
| Input a lecturer's research profile information | Authorised user | **Authorised user:** Authorised user with fpt email can input research profile information. |
| View a lecturer's research profile | Authorised user | **Authorised user:** Authorised user can view research profile. |

### 1.2 Out of scope

All of these feature will not be tested because they are NOT included in the Software Requirement Specification:

* User Interfaces.
* Hardware Interfaces.
* Software Interfaces.
* Database logical.
* Communications Interfaces.
* Website Security and Performance.

## 2. Test Strategy

About testing strategy, in the Science Research Activity Support System, we use System Testing. The purpose of using this testing is to ensure the reliability of customers and their satisfaction about the application that we create.

### 2.1 Testing Types

With the testing type, our choice is Functional testing as the testing approach for the Science Research Activity Support System. This selection aims to verify that all the system's functions operate in alignment with their intended processes.

### 2.2 Test Levels

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

### 2.3 Supporting Tools

|  |  |  |  |
| --- | --- | --- | --- |
| Purpose | Tool | Vendor/In-house | Version |
| API testing | Postman | Postman | 9.12.2 |
| Web page testing | Visual Studio Code | Microsoft | 1.82.2 |

## 3. Test Plan

### 3.1 Human Resources

|  |  |  |
| --- | --- | --- |
| **Worker/Doer** | **Role** | **Specific Responsibilities/Comments** |
| Bùi Thế Hiển | Member | Do function/user interface testing as planned |
| Nguyễn Đặng Trường Anh | Member | Do function/user interface testing as planned |

### 3.2 Test Environment

|  |  |  |  |
| --- | --- | --- | --- |
| **Purpose** | **Tool** | **Provider** | **Version** |
| For running the testing tools. | Window | Microsoft | 8 or above |
| For running web testing | Google Chrome | Google | 107.0.5304.63 |

### 3.3 Test Milestones

|  |  |  |
| --- | --- | --- |
| **Milestone Task** | **Start Date** | **End Date** |
| Login | 05/09/2023 | 05/09/2023 |
| Logout | 05/09/2023 | 05/09/2023 |
| Register account | 05/09/2023 | 05/09/2023 |
| Create a conference | 07/09/2023 | 07/09/2023 |
| Configure conference settings | 07/09/2023 | 07/09/2023 |
| Add a conference user | 07/09/2023 | 07/09/2023 |
| Modify a conference's track list | 07/09/2023 | 07/09/2023 |
| Create a track plan | 07/09/2023 | 07/09/2023 |
| Update activity timeline | 07/09/2023 | 07/09/2023 |
| Configure track settings | 07/09/2023 | 07/09/2023 |
| Create a subject area | 07/09/2023 | 07/09/2023 |
| Create a submission question | 07/09/2023 | 07/09/2023 |
| Add decision-making criteria | 07/09/2023 | 07/09/2023 |
| Create a website navbar | 09/09/2023 | 09/09/2023 |
| Update a web page content | 09/09/2023 | 09/09/2023 |
| Export a website's content | 09/09/2023 | 09/09/2023 |
| Submit a conference paper | 11/09/2023 | 11/09/2023 |
| Detect submission conflicts of interest | 11/09/2023 | 11/09/2023 |
| Declare submission conflicts of interest | 11/09/2023 | 11/09/2023 |
| Submit supplementary materials | 11/09/2023 | 11/09/2023 |
| Aggregate conference submissions | 11/09/2023 | 11/09/2023 |
| Make statistical information about conference submissions | 11/09/2023 | 11/09/2023 |
| Suggest reviewers for a submission's reviewing activity | 11/09/2023 | 11/09/2023 |
| Assign reviewers for a submission | 11/09/2023 | 11/09/2023 |
| Get a reviewer's list of assigned papers | 11/09/2023 | 11/09/2023 |
| Submit a review | 11/09/2023 | 11/09/2023 |
| Detect review issues | 11/09/2023 | 11/09/2023 |
| Aggregate reviews of a submission | 11/09/2023 | 11/09/2023 |
| Decide on a paper | 11/09/2023 | 11/09/2023 |
| Send decision result notification to authors | 11/09/2023 | 11/09/2023 |
| View email history | 11/09/2023 | 11/09/2023 |
| Submit a revision | 11/09/2023 | 11/09/2023 |
| Request for camera ready submission | 13/09/2023 | 13/09/2023 |
| Notify authors for camera ready submission | 13/09/2023 | 13/09/2023 |
| Submit the camera ready version of a submission | 13/09/2023 | 13/09/2023 |
| Register papers to the list of manuscripts-expected-to-appear-in-conference-proceeding | 13/09/2023 | 13/09/2023 |
| Request for presentation submission | 13/09/2023 | 13/09/2023 |
| Notify authors for presentation submission | 13/09/2023 | 13/09/2023 |
| Submit the presentation of a submission | 13/09/2023 | 13/09/2023 |
| Track essential activities and tasks required during any conference phase | 15/09/2023 | 15/09/2023 |
| Input a lecturer's research profile information | 17/09/2023 | 17/09/2023 |
| View a lecturer's research profile | 17/09/2023 | 17/09/2023 |

## 4. Test Cases & Test Reports

|  |  |
| --- | --- |
| **Testing Level** | **File Name** |
| System Test | [SU23SE08\_Test\_Report](https://docs.google.com/spreadsheets/d/1Svu2Q5SwTIihnr72wDTPoKEkbzP3I3Ok/edit?fbclid=IwAR2ceN8SFIZtAIVepwokBmrb9WA-PlszkyrHUsIZlCoqS-ciXmWj-OsquXs#gid=1926235940) |