Liepājas Universitātes

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Computer Science (Bachelor)

**Document Management System and Editor Plugin Development**

Software Testing Documentation

Paper ID

Bachelor Paper Appendix

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Liepāja, 2023

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# 1. Objectives

## 1.1 Purpose

This document describes the plan for testing the architectural prototype of the Document Management System This Test Plan document supports the following objectives:

o Identify existing venture data and the product that ought to be tried.

o List the suggested test prerequisites (significant level).

o List the deliverable components of the test exercises.

## 1.2 Scope

This Test Plan describes the integration and system tests that will be conducted on document management system and the plugins following reconciliation of the subsystems and parts distinguished in the Integration Build Plan for the Prototype. It is assumed that unit testing already provided thorough black box testing, extensive coverage of source code, and testing of all module interfaces. The motivation behind amassing the structural model was to test attainability and execution of the chose design. It is important that all framework and subsystem interfaces be tried just as framework execution at this beginning time. Testing of framework usefulness and highlights won't be led on the model.

The interfaces between the following subsystems will be tested:

* 1. Pc or Laptops
  2. Available browsers on the internet

## 1.3 References

*IEEE. IEEE Std. 830-1998 IEEE Recommended Practice for Software Testing . IEEE Computer Society, 1998.*

*IEEE. IEEE Std. 830-1998 IEEE Recommended Templates and Examples of Test Documentation*

*Course Registration System Test Plan for the Architectural Prototype, Copyright  © 1987 - 2001 Rational Software Corporation - https://sceweb.uhcl.edu/helm/RUP\_course\_example/courseregistrationproject/artifacts/test/plans/test\_plan\_arch.htm*

# 2.    Requirements for Test

The posting beneath distinguishes those things use cases, functional requirements , non- functional requirements that have been recognized as focuses for testing. This rundown speaks to what will be tried.

## 2.1 Data and Database Integrity Testing

* Validate access to the server from laptop/pc,
* Validate access to the Apache server from WordPress,
* Validate correct retrieval of update of database data,

## 2.2. Function Testing

* Validate registration
* Validate Login
* Validate quick doc plugin.
* Validate types of users
* Validate download functionality.
* Validate system dashboard and the functions.

## 2.3 User Interface Testing

* Validate ease of navigation through a sample set of screens.
* Validate sample screens conform to GUI standards.

## 2.4 Performance Testing

* Validate response time to open the system by browser.
* Validate response time to login to the system.
* Validate response time for retrieving data from the past contents by quick doc.
* Validate response time for receiving notifications from the system.
* Validate response time for update the user, documents and download counts on the system.
* Validate response time for publishing the documents.

## 2.5 Security and Access Control Testing

* Verify Login from testing Pc/Laptop
* Verify login from remote Pc/Laptop
* Verify Logon from local PC web browser .
* Verify Logon security through username and password mechanisms.

## 2.6 Configuration Testing

The system shall run on the browsers do not bellow than those versions such as:

* Google Chrome: version 57 or later
* Mozilla Firefox: version 52 or later
* Safari: version 10 or later
* Microsoft Edge: version 16 or later
* Opera: version 44 or later

## 2.7 Installation Testing

Not Applicable - Due to unavailability of the many PC devices Installation system will be limited of few PC and browsers.

# 3 Test Reports

This section included the test cased and test logs of the document management system and quickdocplugin prototype. The results of the testing procedure will have logged and presented and as well as summery of the total testing practice.

## 3.1 Test Cases (Template with Data)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | **Test Case**  **title** | **Test Case**  **Execution Conditions** | **Test Case Description** | **Test case input data** | **Test Case Execution**  **Expected Result** | **Specification ID** |
| **T001** | Testing  “Login Page | Open page  “Availability Page” | Input all these fields   * Username * Password | Username= admin  Password= Empty | Displayed Message  **“Please fill out Password** |  |
| **T002** | Testing  “Login Page | Open page  “Availability Page” | Input all these fields   * Username * Password | Username= Empty  Password= admin | Displayed Message  **“please fill out the username’’** |  |
| **T003** | Testing  “Login Page | Open page  “Availability Page” | Input all these fields   * Username * Password | Username= admin  Password= any password | Displayed Message  **“Incorrect password try again ”** |  |
| **T004** | Testing  “Login Page | Open page  “Front Page” | Input all these fields   * Username * Password | Username= admin  Password= admin | Page opened to Availability page |  |
| **T005** | Testing  “Login Page | Open page  “Availability Page” | Input all these fields   * Username * Password | Username= author  Password= Empty | Displayed Message  **“Please fill out Password** |  |
| **T006** | Testing  “Login Page | Open page  “Availability Page” | Input all these fields   * Username * Password | Username= Empty  Password= author | Displayed Message  **“please fill out the username’’** |  |
| **T007** | Testing  “Login Page | Open page  “Availability Page” | Input all these fields   * Username * Password | Username= author  Password= any password | Displayed Message  **“Incorrect password try again ”** |  |
| **T008** | Testing  “Login Page | Open page  “Front Page” | Input all these fields   * Username * Password | Username= author  Password= author | Page opened to Availability page |  |
| **T009** | Testing  “Login Page | Open page  “Availability Page” | Input all these fields   * Username * Password | Username= editor  Password= Empty | Displayed Message  **“Please fill out Password** |  |
| **T010** | Testing  “Login Page | Open page  “Availability Page” | Input all these fields   * Username * Password | Username= Empty  Password= editor | Displayed Message  **“please fill out the username’’** |  |
| **T011** | Testing  “Login Page | Open page  “Availability Page” | Input all these fields   * Username * Password | Username= editor  Password=any password | Displayed Message  **“Incorrect password try again ”** |  |
| **T012** | Testing  “Login Page | Open page  “Front Page” | Input all these fields   * Username * Password | Username= editor  Password= editor | Page opened to Availability page |  |
| **T013** | Testing  “user Registration” | Open page  “**Your request sent**”  Adding New User | Input all these fields   * Username * Email * First Name * Last Name * Website * Password * Role | Username=Kumar  Email=””  FirstName=Ninthujan  LastName=Vasantha Kumar  Website=””  Password=admin  Role=admin | Display Message  **“User Has been created successfully”** |  |
| **T014** | Testing “Document creation” | Open page ”Available page” | Input all data in the documents   * Document name * Subtitle of documents * Contents | Document name= Document 1  Subtitle=sample document  Content=Lauram ipsum | Display message  **“New document is published”**  Document id was generated |  |
| **T015** | Testing Quick doc Plugin in “Document Creation” | Quick doc plugin open | Input data  Document id  Contents clickable | Document id= 58  Past contents addable in the documents | Display message  **“New document is published”**  Document id was generated |  |
| **T016** | Testing short code Plugin in “Document Creation” | Short code plugin open | Input data  Document id  Contents clickable | Document id= 58  Past contents addable in the documents | Display message  **“New document is published”**  Document id was generated |  |
| **T017** | Testing the download function of the “Documents” | Open page “available page” | Click the download button | Clicked the button | Display message  “**Start downloading”** |  |
| **T018** | Testing the “download documents count” | Open page “available page” | Click the download button | Clicked the button | Display  **“Updated downloads”** |  |
| **T019** | Testing the “user´s count” | Open page “available page” | Click the user create button | Clicked the button | Display  **“update user ´s count in the DMS dashboard”** |  |
| **T020** | Testing the “admin count” | Open page “available page” | Click the user create button | Clicked the button | Display  **“update admin ´s count in the DMS dashboard”** |  |
| **T020** | Testing the “author count” | Open page “available page” | Click the user create button | Clicked the button | Display  **“update authors ´s count in the DMS dashboard”** |  |
| **T021** | Testing “user profile update” | Open page “available page” | Input all these fields   * Username * Email * First Name * Last Name * Website * Password | Username=Ninthujan  Email=””  FirstName=Vasantha  LastName= Kumar  Website=””  Password=admin | Display **”user profile update”** |  |
| **T022** | Testing “Delete document” | Open page  “available page” | Click the delete button | Clicked the button | Display  **”Document was deleted”** |  |
| **T023** | Testing  “Document edit” | Open page  “available page” | Input data | Clicked the publish button | Display  **”Document was edited”** |  |
| **T024** | Testing the  Admin logout function | available page “Admin dashboard” | Click the logout button | Click the lockout button | Directed to **“login page”** |  |
| **T025** | Testing the  Autor logout function | available page “Editor dashboard” | Click the logout button | Click the lockout button | Directed to **“login page”** |  |
| **T025** | Testing the  Editor logout function | available page “Editor dashboard” | Click the logout button | Click the lockout button | Directed to **“login page”** |  |

## 3.2 Test Logs

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Date | | | Tester | Test Case ID | | Test Case Title | | Passed/failed | | | Test Incident report ID | | Notes |
| 01 |  | | | Ninthujan | T001 | | Admin Login Page | | Passed | | |  | |  |
| 02 |  | | | Ninthujan | T002 | | Author Login Page | | Passed | | |  | |  |
| 03 |  | | | Ninthujan | T003 | | Editor Login Page | | Passed | | |  | |  |
| 04 |  | | | Ninthujan | T004 | | Admin Registration | | Passed | | |  | |  |
| 05 |  | | | Ninthujan | T005 | | Author Registration | | Passed | | |  | |  |
| 06 |  | | | Ninthujan | T006 | | Editor Registration | | Passed | | |  | |  |
| 07 |  | | | Ninthujan | T007 | | User permission quick doc | | Passed | | |  | | Access denied for editor |
| 08 |  | | | Ninthujan | T008 | | Document download | | Passed | | |  | |  |
| 09 |  | | | Ninthujan | T009 | | View documents | | Passed | | |  | |  |
| 10 |  | | | Ninthujan | T010 | | Create documents quick doc | | Passed | | |  | | Access denied for editor |
| 11 |  | | | Ninthujan | T011 | | Edit documents quick doc | | Passed | | |  | | Access denied editor |
| 12 |  | | | Ninthujan | T012 | | Delete documents | | Passed | | |  | | Access denied editor |
| 13 |  | | | Ninthujan | T013 | | View DMS dashboard | | Passed | | |  | |  |
| 14 |  | | | Ninthujan | T014 | | Counting for users and documents in DMS dashboard | | Passed | | |  | |  |
| 15 |  | | | Ninthujan | T015 | | Download counting | | Passed | | |  | |  |
| 16 |  | | | Ninthujan | T016 | | Profile update | | Passed | | |  | |  |
| 17 |  | | | Ninthujan | T017 | | Forget password changing | | Passed | | |  | | Author , editor access denied |
| 18 |  | | | Ninthujan | T018 | | Plugin update | | Passed | | |  | | Author , editor access denied |
| 19 | |  | Ninthujan | | | T019 | | User creation | | Passed |  | | Author , editor access denied | |

## 3.3 Summery

Software testing of the Document management system has been done as manually while developing the application and after completing each functions and whole application. Testing capacity has been limited due to unavailability of physical devices such as window 8 or less. As the application is the prototype of the bachelor research, and the development and testing has been done by single developer. Testing plan and methods used by the author can be satisfied for the research and educational basics. For future use of this application, further testing and verification must be applied. Overall test results, testing plans, testing tools and methods are primarily sufficient at this stage of the application