**TEST PLAN**

**GROUP 5**

**DOCKLOUD – A secure web document management System**

**Members**

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### Login

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| **Test Case** | **Expected Result** | **Remark** |
| 1.1 User clicks on Login option on home screen. | A screen should be displayed where user can enter his username and password. | The system accepts the username and password |
| 1.2 A valid user enters his details and clicks Log in button. | The valid user should be redirected to Home Page. |  |
| 1.3 Invalid Username | Show an error message and user is not logged in. | *Message:* Please enter valid username |
| 1.4 Invalid Password | Show an error message and user is not logged in. | *Message:* Please enter valid username & password |
| 1.5 User clicks Login button with no information. | System prompts an error message. | *Message:* Please enter valid username and password |
| 1.6 User enters a wrong pair of user name and password | System prompts an error message. | *Message:* Please enter valid username and password |
| 1.7 An user with pending approval tries to login | System prompts a message. | *Message:* Your request is still pending for approval |
| 1.8 A user enters invalid credentials more than 3 times successively. | System should show CAPTCHA and user must reenter it to continue. |  |

### 2. User Registration

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| **Test Case** | **Expected Result** | **Remark** |
| 2.1 User clicks on sign up button | System should redirect to sign up page |  |
| 2.2 User enters all the information correctly and enters correct characters in CAPTCHA and clicks *Request* button. | A message should be displayed: ‘Request sent successfully’. | A request should be sent to the Administrator. |
| 2.3 If a user forgets or enters any incorrect information. | A message should be displayed and the request should not be sent unless all information is filled. | The message should point the exact missing/incorrect field. |
| 2.4 New user tries to register with an existing userId. | An error message should be shown. | *Message:* The usernId has been already taken. Please choose another userId |
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### 3. Password Change

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| **Test Case** | **Expected Result** | **Remark** |
| 3.1 User clicks on Password Change button. | A screen should be displayed for changing the password. |  |
| 3.2 User enters valid username, valid current password and new password and re-entered new password matches. | The system should validate and change the password and display a message. | *Message:* Password changed successfully. |
| 3.3 User enters invalid username and valid current password. | The system should display an error message and the password should not be changed. | *Message:* Please enter valid username & password. |
| 3.4 User enters valid username and invalid current password. | The system should display an error message and the password should not be changed. | *Message:* Please enter valid username & password. |
| 3.5 The new password and the re-entered new password do not match. | The system should display an error message and the password should not be changed. | *Message:* Please enter valid username & password. |

### 4. Home Screen

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| **Test Case** | **Expected Result** | **Remark** |
| 4.1 When a user logs in successfully. | The user should see his home directory. |  |
| 4.2 Different file formats are allowed. | Files of Word, Excel, PowerPoint, PDF, text and image files are accepted. | Any other format should be rejected. |
| 4.3 User clicks on any document. | The file should be downloaded on the local machine of the user. |  |
| 4.4 User tries to upload document of permitted size. | The file should get uploaded and a message should be displayed. | *Message:* The file has been uploaded successfully. |
| 4.4 User tries to upload document of un-permitted size. | System should display a message and file is not uploaded. | *Message:* Unsuccessful upload. File size should be less than 5MB. |
| 4.5 User tries to delete a document. | The selected document should be deleted. |  |
| 4.6 User clicks on Check-Out. | Selected document is locked and Update and Delete cannot be performed on this document unless it is check-in by the same user. | The document should be locked and no other user should be able to modify it. Other users can only read this document. |
| 4.7 User clicks on Check-In | The lock from the selected document is released and Update and Delete can now be performed. | The checked-In file is now available to update/delete and other user can now do check-out on this document. |
| 4.8 User clicks on Update button. | A screen should be shown to user where he can select the document to be updated and can write comments for it. |  |
| 4.9 User clicks on share button and specifies User Id and access privileges. | A screen should be shown to user where he can specify the User Id and the roles. | Specified user should get the access to this document. |
| 4.10 User tries to Check-Out a Checked-Out file. | A message should be shown to the user. | *Message*: The file had already been checked-out by other user. |
| 4.11 A guest clicks on Upload button. | An error message should be displayed to the user. | *Message*: A guest user cannot upload a document. |
| 4.12 A guest user clicks on delete button. | An error message should be displayed to the user. | *Message*: A guest user cannot delete a document. |
| 4.13 A guest user clicks on share button. | An error message should be displayed. | *Message*: Guest users cannot share a document. |
| 4.14 A user tries to update a Checked-Out document. | An error message should be displayed to the user. | *Message*: The file has been checked-out. Update cannot be made to a checked-out file. |
| 4.14 A user tries to delete a Checked- Out document. | An error message should be displayed to the user. | *Message*: The file has been checked-out. Checked-Out files cannot be deleted. |
| 4.15 Any user remains inactive for predefined amount of time. | The user should be automatically logged out from his account and he will need to login again to access his account. | This will avoid exploits when a user forgets to log-out from his session on a machine and an attacker gets hold of his account. |
| 4.16 A user clicks back button after log out. | The user should be redirected to login page. |  |
| 4.17 User encrypts a document using a passphrase and then tries to download it with the same passphrase | The file should be downloaded normally. |  |
| 4.18 User encrypts a document and tries to decrypt it with a wrong key. | A garbage file should be downloaded. |  |

### 5. User Roles and privileges

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| **Test Case** | **Expected Result** | **Remark** |
| 5.1 A user login as a corporate-level management official. | User should be able to view the list of documents from all the departments. |  |
| 5.2 A corporate-level management official tries to upload/ read/delete/update/check in/check-out any document in any departments he/she is responsible for. | Privileged corporate officials perform all these functions. |  |
| 5.3 A user login as Department Manager. | User should be able to view the list of documents from his department and other documents which are shared with him. |  |
| 5.4 A department manager tries to upload/read/delete /update/check in/check-out any documents in the department he/she is responsible for. | Privileged Department Managers perform all these functions. | Department managers will not have access to documents which are uploaded by corporate level management officials unless shared with them. |
| 5.5 User login as a regular employee. | User should be able to view all the documents which he has created and the document which are shared with him. |  |
| 5.6 A regular employee can upload/ read/delete/update/check in/check-out all the documents he/she created (he/she is the author) in his/her department | Privileged user can perform all these functions. | A regular employee will not have an access to the documents which uploaded by corporate officials and department managers, unless shared by them. |
| 5.7 A user login as guest user. | The user should be able to view the documents which are shared with him. |  |
| 5.8 A guest user tries to read/delete/update/check in/check-out the documents that have been shared with him/her. | Privileged user can perform all these functions. | A guest user cannot upload a new document. |
| 5.9 A user login as a Temporary user. | The user should not be able to view any documents and a message should be displayed. | Message: Your request is still pending. |
| 5.10 A user login as Administrator. | The user should see the Admin home screen. | Administrator does not have access to any document. |
| 5.11 New request arrive to Administrator. | Administrator approves/disapproves a new user request based on the request made for. | New users are created or requests are rejected. |
| 5.12 Administrator selects pending request option. | A list of all pending request should be displayed. |  |
| 5.13 Administrator selects one of the requests from the pending list. | A screen should be displayed with all the information of the requestor. |  |
| 5.14 Administrator deletes a user. | The deleted user should not be able to login and all the documents created by that user should also be deleted. |  |
| 5.15 Administrator modifies a user’s account. | Administrator will add or remove the roles to this account. |  |
| 5.16 Administrator selects the log file | A screen should be displayed with information of who have performed what operations on which documents at what time. |  |

### 6. Security

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| **Test Case** | **Expected Result** | **Remark** |
| 6.1 Open any page of the document management system | The browser should show the HTTPS mark on the navigation bar. |  |
| 6.2 Try to open the same page in different tabs simultaneously within a small time period. | The further requests should get blocked with a message. | You have exceeded the requests limit. Please try after some time. |
| 6.3 Try to enter SQL syntax in the username/password. | The system should validate the inputs if characters are not allowed and give a message. |  |
| 6.4 User tries to send JavaScript in the fields where parameters are sent by GET method. | The input should be validated before sending by JavaScript and also at the server end. | Please enter a valid term |
| 6.5 User tries to copy URL for the file being downloaded and tries to download from it later after logging out. | The session should be checked and a login page should be shown. | Please login to proceed |
| 6.6 A hacker gets access of the database and tries to login using username/passwords in the DB | The authentication should fail with the hashed password. |  |

### 7. Logs

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| **Test Case** | **Expected Result** | **Remark** |
| 7.1 Perform a series of operations on the WDMS such as upload, check-in, check-out, delete, update. | The systems should register logs for all the major events happening. |  |
| 7.2 The log file should not store links to files directly. | In case, the log file falls in wrong hands, no direct links should be there so that nothing malicious can be performed |  |