Abstract

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Testing documentation

Borrow My Books

This document serves to provide functional requirement descriptions and test descriptions for the Borrow My Books system.

List of functional requirements:

3.2.1 As a user, I can create an account on the system. UCA-1

3.2.2 As a user, I can login to the system. UL-1

3.2.3 As a user, I can change my password. UCP-1

3.2.4 As a user, I can explore books other users have posted to the system. UEB-1

3.2.5 As a user, I can post books Im willing to trade or loan on the system. ULB-1

3.2.6 As a user, I can post books Im willing to sell on the system. USB-1

3.2.7 As a user, I can rate my experience during a specific transaction. URE-1

3.2.8 As a user, I can report a user who has abused the system. URU-1

3.2.9 As an Admin, I can reset user passwords. ARP-1

3.2.10 As an Admin, I can see and review which users have been reported for bad behaviour. AVR-1

3.2.11 As an Admin, I can reverse transactions when something unexpected happens in the system. ART-1

3.2.12 As a user, I can contact admin on the system. UCS-1

Test cases:

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| Test-case Identifier: | **TC-1** | |
| Use Case Tested: | **UL-1** | |
| Pass/fail Criteria: | **The test passes if the user enters a valid username and password into the system, within less than the specified amount of allowed failed attempts.** | |
| Input Data: | **Alphanumeric username, alphanumeric password.** | |
| Test Procedure: | | Expected Result: |
| **Step 1. Type in a correct username and incorrect password.** | | **System shows unsuccessful login attempt message. records unsuccessful attempt in the database; prompts the user to try again** |
| **Step 2. Type in an incorrect username and any password**  **Step 3. Type in a correct username and password** | | **System shows unsuccessful login attempt message. records unsuccessful attempt in the database; prompts the user to try again**  **System shows a successful login notification. Redirects the user to the home page of the site.** |
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User account creation test:

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| Test-case Identifier: | **TC-2** | |
| Use Case Tested: | **UCA-1** | |
| Pass/fail Criteria: | **The test passes if the user successfully creates an account with a valid email address and password** | |
| Input Data: | **Alphanumeric username, alphanumeric password.** | |
| Test Procedure: | | Expected Result: |
| **Step 1. Type in a correct username and incorrect password.** | | **System shows unsuccessful account creation message. records unsuccessful attempt in the database; prompts the user to try again with valid credentials.** |
| **Step 2. Type in an incorrect username (email) and any password**  **Step 3. Type in a correct username and password** | | **System shows unsuccessful login attempt message. records unsuccessful attempt in the database; prompts the user to try again with a valid email address.**  **System shows a successful account creation notification. Redirects the user to the home page of the site as a user logged in with the new account details.** |
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User password change test case:

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| Test-case Identifier: | **TC-3** | |
| Use Case Tested: | **UCP-1** | |
| Pass/fail Criteria: | **The test passes if the user updates their password to a new password which meets the security standards of the system.** | |
| Input Data: | **Alphanumeric username, alphanumeric password.** | |
| Test Procedure: | | Expected Result: |
| **Step 1. Type in an invalid new password** | | **System shows unsuccessful password change message. records unsuccessful attempt in the database; prompts the user to try again with a valid password and the specifications of a new password.** |
| **Step 2. Type in a correct password.** | | **System shows a successful password change notification. Password salting takes place and the user is logged into the system with their new password.** |
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Services.js tests:

School Domain schema:

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| Test-case Identifier: | **TC-4** | |
| Use Case Tested: | **UCA-1** | |
| Pass/fail Criteria: | **The test passes if the system successfully detects that a user is a student through their email address.** | |
| Input Data: | **Alphanumeric username(email address), alphanumeric password.** | |
| Test Procedure: | | Expected Result: |
| **Step 1. Type in an email address ending in a school domain (eg students.wits.ac.za)** | | **System records email address. Detects the school host address in the email address. The school domain of the user object is set to true.** |
| **Step 2. Type in an email address ending in any other host address, not a school domain.** | | **System records the email address. Detects the non-school host address in the email address. The school domain of the user object is set to false.** |
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| Test-case Identifier: | **TC-5** | |
| Use Case Tested: | **UCA-1** | |
| Pass/fail Criteria: | **The test passes if the system successfully detects that a user is a student through their email address.** | |
| Input Data: | **Alphanumeric username(email address), alphanumeric password.** | |
| Test Procedure: | | Expected Result: |
| **Step 1. Type in an email address ending in a school domain (eg students.wits.ac.za)** | | **System records email address. Detects the school host address in the email address. The school domain of the user object is set to true.** |
| **Step 2. Type in an email address ending in any other host address, not a school domain.** | | **System records the email address. Detects the non-school host address in the email address. The school domain of the user object is set to false.** |
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User Classification Test Case:

Book generation test case

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| Test-case Identifier: | **TC-6** | |
| Use Case Tested: | **UCA-1** | |
| Pass/fail Criteria: | **The test passes if the system successfully generates a UUID for a new book being generated on the system.** | |
| Input Data: | **Alphanumeric username(email address), alphanumeric password.** | |
| Test Procedure: | | Expected Result: |
| **Step 1. Type in all the relevant details of the book to be posted on the site.** | | **System records the details of the book. Creates a UUID for the book. It then tests if the UUID created for the book is valid.** |
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