



TESTING DOCUMENTATION

Borrow My Books

[Abstract](#)

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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:

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	System shows unsuccessful login attempt message. records unsuccessful attempt in the database; prompts the user to try again
Step 3. Type in a correct username and password	System shows a successful login notification. Redirects the user to the home page of the site.

User account creation test:

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	System shows unsuccessful login attempt message. records unsuccessful attempt in the database; prompts the user to try again with a valid email address.
Step 3. Type in a correct username and password	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.

User password change test case:

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:

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:
<p>Step 1. Type in an email address ending in a school domain (eg students.wits.ac.za)</p> <p>Step 2. Type in an email address ending in any other host address, not a school domain.</p>	<p>System records email address. Detects the school host address in the email address. The school domain of the user object is set to true.</p> <p>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.</p>

User Classification Test Case:

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.

Book generation test case

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.