



# 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 I'm willing to trade or loan on the system. ULB-1
- 3.2.6 As a user, I can post books I'm 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:	<b>TC-1</b>
Use Case Tested:	<b>UL-1</b>
Pass/fail Criteria:	<b>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.</b>
Input Data:	<b>Alphanumeric username, alphanumeric password.</b>

Test Procedure:	Expected Result:
<b>Step 1. Type in a correct username and incorrect password.</b>	<b>System shows unsuccessful login attempt message. records unsuccessful attempt in the database; prompts the user to try again</b>
<b>Step 2. Type in an incorrect username and any password</b>	<b>System shows unsuccessful login attempt message. records unsuccessful attempt in the database; prompts the user to try again</b>
<b>Step 3. Type in a correct username and password</b>	<b>System shows a successful login notification. Redirects the user to the home page of the site.</b>

User account creation test:

Test-case Identifier:	<b>TC-2</b>
Use Case Tested:	<b>UCA-1</b>
Pass/fail Criteria:	<b>The test passes if the user successfully creates an account with a valid email address and password</b>
Input Data:	<b>Alphanumeric username, alphanumeric password.</b>
Test Procedure:	Expected Result:
<b>Step 1. Type in a correct username and incorrect password.</b>	<b>System shows unsuccessful account creation message. records unsuccessful attempt in the database; prompts the user to try again with valid credentials.</b>

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

#### User Classification Test Case:

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

#### Book generation test case

Test-case Identifier: <b>TC-6</b>	
Use Case Tested: <b>UCA-1</b>	
Pass/fail Criteria: <b>The test passes if the system successfully generates a UUID for a new book being generated on the system.</b>	

Input Data: <b>Alphanumeric username(email address), alphanumeric password.</b>	
Test Procedure:	Expected Result:
<b>Step 1. Type in all the relevant details of the book to be posted on the site.</b>	<b>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.</b>