

# WolfLibrary Black Box Test Plan

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## Introduction

The WolfLibrary program is a simple program that allows users to log into their accounts and manage books that the user has checked out and wants to check out. This black box test describes tests for logging in as an Administrator and creating a Patron, logging in as a Patron and checking out a book, and logging in as a Patron and checking in a book with a full list of books that have been checked out and books in the user's queue.

The program is started by running the WolfLibraryGUI class. At that point the user will be prompted for a command line argument before launching the GUI. If using Eclipse, first create a Run Configuration for the project by right clicking on the WolfLibraryGUI and selecting Run As > Run configuration. Select the new configuration button in the upper left, Browse for the WolfLibrary project. The main class is edu.ncsu.csc216.WolfLibrary.WolfLibraryGUI.

Under the Arguments tab in the Run Configuration window, add the file name for the command line argument. Any time you need to change the command line argument, you must modify the filename in the Arguments tab. The assumption is that all files will be stored under the top level of the Eclipse project. If so, you only need to enter the filename into the Program arguments text field.

The preconditions for these tests are the following: there exists a file called "books-example.txt" that contains the following, properly formatted information:

- 3 Pride and Prejudice by Jane Austin
- 1 Love in the Time of Cholera by Gabriel Garcia Marquez
- 2 The Elements of Style (4th Edition) by Strunk and White
- 5 The Dark Is Rising by Susan Cooper
- 1 Shadow of the Hegemon by Orson Scott Card
- 8 The Dharma Bums by Jack Kerouac
- 2 Wintersmith by Terry Pratchett
- 1 The Hero with a Thousand Faces by Joseph Campbell
- 1 The Pickwick Papers by Charles Dickens
- 0 Fathers and Sons by Ivan Turgenev
- 1 High Five by Janet Evanovich
- 1 The Tale of Peter Rabbit by Beatrix Potter
- 1 Dead and Gone by Charlaine Harris

1 Mrs. Frisby and the Rats of NIMH by Robert C. O'Brien  
2 Special Topics in Calamity Physics by Marisha Pessl  
1 The Kitchen God's Wife by Amy Tan  
0 Christine by Stephen King  
1 Roll of Thunder, Hear My Cry by Mildred D. Taylor  
1 Skeleton Crew by Stephen King  
1 Meditations by Marcus Aurelius  
2 Charlie and the Great Glass Elevator by Roald Dahl  
1 Hearts in Atlantis by Stephen King  
2 Mona Lisa Overdrive by William Gibson  
3 A Breath of Snow and Ashes by Diana Gabaldon  
4 Perelandra by C. S. Lewis  
1 The House of the Seven Gables by Nathaniel Hawthorne

The user has entered the "books-example.txt" file to the command line argument in the Run Configuration window under the Arguments tab in the Eclipse setup adumbrated above. Further, there exists in the PackLibraryManagerGUI information to create the following patrons:

Patron 1

patron1@ncsu.edu, pw1, 3

Checked Out:

A Breath of Snow and Ashes by Diana Gabaldon

Charlie and the Great Glass Elevator by Roald Dahl

The Dark is Rising by Susan Cooper

Reserve Queue:

Christine by Stephen King

Patron 2

patron2@ncsu.edu, pw2, 2

Checked Out:

Reserve Queue:

Test ID	Description	Expected Results	Actual Results
createPatron	<p><b>Preconditions:</b> The user right clicks the WolfLibraryGUI.java file in Eclipse. The user selects Run As &gt; Java Application.</p> <p>In the text field for username enter "admin." In the text field for password enter "admin." Select Login. (check the result)</p> <p>Select Add New Patron Account (check result)</p> <p>Enter the new username and password, "new@ncsu.edu" and "123new", respectively. Set the book limit to 4. Press OK (Check result)</p> <p>Select Logout (check result)</p> <p>In the text field for username enter "new@ncsu.edu" and "123new" for the passowrd. Select Login (check result)</p> <p>Select Logout (check result)</p> <p>Select Quit (check result)</p>	<p>Displays the Login face to enter Username and Password.</p> <p>Displays the administrator Welcome face</p> <p>A dialog box appears for entering new patron information.</p> <p>Displays the administrator Welcome face.</p> <p>Displays the Login face.</p> <p>Displays the Patron welcome face.</p> <p>Displays the Login face.</p> <p>The program quits without error</p>	<p>Displays the Login face to enter Username and Password.</p> <p>Displays the administrator Welcome face</p> <p>A dialog box appears for entering new patron information.</p> <p>Displays the administrator Welcome face.</p> <p>Displays the Login face.</p> <p>Displays the Patron welcome face.</p> <p>Displays the Login face.</p> <p>The program quits without error</p>

patronCheckOut	<p><b>Preconditions:</b> The user right clicks the WolfLibraryGUI.java file in Eclipse. The user selects Run As &gt; Java Application.</p> <p>For username and password enter “patron2@ncsu.edu” and “pw2”, respectively (check result)</p> <p>Select Browse (check result)</p>	<p>Displays the Login face to enter Username and Password.</p> <p>Program displays the Patron Welcome face.</p> <p>A list of all the books in the library should be displayed as follows:</p> <p>A Breath of Snow and Ashes by Diana Gobaldon  Charlie and the Great Glass Elevator by Roald Dahl  * Christine by Stephen King  The Dark Is Rising by Susan Cooper  Dead and Gone by Charlaine Harris  The Dharma Burns by Jack Kerouac  The Elements of Style (4th Edition) by Strunk and White  * Fathers and Sons by Ivan Turgenev  Hearts in Atlantis by Stephen King  The hero with a Thousand Faces by Joseph Campbell</p>	<p>Displays the Login face to enter Username and Password.</p> <p>Program displays the Patron Welcome face.</p> <p>A list of all the books in the library should be displayed as follows:</p> <p>A Breath of Snow and Ashes by Diana Gobaldon  Charlie and the Great Glass Elevator by Roald Dahl  * Christine by Stephen King  The Dark Is Rising by Susan Cooper  Dead and Gone by Charlaine Harris  The Dharma Burns by Jack Kerouac  The Elements of Style (4th Edition) by Strunk and White  * Fathers and Sons by Ivan Turgenev  Hearts in Atlantis by Stephen King  The hero with a Thousand Faces by Joseph Campbell</p>
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		<p>High Five by Janet Evanovich</p> <p>The House of the Seven Gables by Nathaniel Hawthorne</p> <p>The Kitchen God's Wife by Amy Tan</p> <p>Love in the Time of Cholera by Gabriel Garcia Marquez</p> <p>Meditations by Marcus Aurelius</p> <p>Mona Lisa Overdrive by William Gibson</p> <p>Mrs. Frisby and the Rats of NIMH by Robert C.O'Brien</p> <p>Prelandra by C. S. Lewis</p> <p>The pickwick Papers by Charles Dickens</p> <p>Pride and Prejudice by Jane Austin</p> <p>Roll of Thunder, Hear MY Cry by Mildred D. Taylor</p> <p>Shadow of the Hegemon by Orson Scott Card</p> <p>Skeleton Crew by Stephen King</p> <p>Special Topics in Calamity Physics by Marisha Pessl</p> <p>The Tale of Peter Rabbit by Beatrix Potter</p> <p>Wintersmith by Terry Pratchett</p>	<p>High Five by Janet Evanovich</p> <p>The House of the Seven Gables by Nathaniel Hawthorne</p> <p>The Kitchen God's Wife by Amy Tan</p> <p>Love in the Time of Cholera by Gabriel Garcia Marquez</p> <p>Meditations by Marcus Aurelius</p> <p>Mona Lisa Overdrive by William Gibson</p> <p>Mrs. Frisby and the Rats of NIMH by Robert C.O'Brien</p> <p>Prelandra by C. S. Lewis</p> <p>The pickwick Papers by Charles Dickens</p> <p>Pride and Prejudice by Jane Austin</p> <p>Roll of Thunder, Hear MY Cry by Mildred D. Taylor</p> <p>Shadow of the Hegemon by Orson Scott Card</p> <p>Skeleton Crew by Stephen King</p> <p>Special Topics in Calamity Physics by Marisha Pessl</p> <p>The Tale of Peter Rabbit by Beatrix Potter</p> <p>Wintersmith by Terry Pratchett</p>
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	<p>Select the book Pride and Prejudice by Jane Austin from the list. Select Reserve Selected Book (check result)</p>	<p>No change to the inventory list. Text under library inventory displays "Reserved: Pride and Prejudice by Jane Asutin"</p>	<p>No change to the inventory list. Text under library inventory displays "Reserved: Pride and Prejudice by Jane Asutin"</p>
	<p>Select Hearts in Atlantis by Stephen King from the list. Select Reserve Selected Book (check result)</p>	<p>Inventory list of "Hearts in Atlantis by Stephen King" now reads "* Hearts in Atlantis by Stephen King". Text under library inventory displays "Reserved: Hearts in Atlantis by Stephen King"</p>	<p>Inventory list of "Hearts in Atlantis by Stephen King" now reads "* Hearts in Atlantis by Stephen King". Text under library inventory displays "Reserved: Hearts in Atlantis by Stephen King"</p>
	<p>Select Love in the Time of Cholera by Gabriel Garcia Marquez. Press Reserve Selected Book (check result)</p>	<p>No change to the inventory list. Text under library inventory displays "Reserved: Love in the Time of Cholera by Gabriel Garcia Marquez"</p>	<p>No change to the inventory list. Text under library inventory displays "Reserved: Love in the Time of Cholera by Gabriel Garcia Marquez"</p>
	<p>Select Show My Books (check result)</p>	<p>The list of My Checked Out Books and My Reserve Queue is displayed. My Checked Out Books lists: Pride and Prejudice by Jane Austin</p>	<p>The list of My Checked Out Books and My Reserve Queue is displayed. My Checked Out Books lists: Pride and Prejudice by Jane Austin</p>

		<p>Hearts in Atlantis by Stephen King</p> <p>My Reserve Queue shows: Love in the Time of Cholera by Gabriel Garcia Marquez</p>	<p>Hearts in Atlantis by Stephen King</p> <p>My Reserve Queue shows: Love in the Time of Cholera by Gabriel Garcia Marquez</p>
	<p>Select Logout (check result)</p> <p>Select the X button at the upper right hand of the window frame</p>	<p>Displays the Login face.</p> <p>The program quits without error</p>	<p>Displays the Login face.</p> <p>The program quits without error</p>
patronCheckIn	<p><b>Preconditions:</b> The user right clicks the WolfLibraryGUI.java file in Eclipse. The user selects Run As &gt; Java Application.</p> <p>For username and password enter "patron1@ncsu.edu" and "pw1", respectively (check result)</p> <p>Select Show My Books (check result)</p>	<p>Displays the Login face to enter Username and Password.</p> <p>Program displays the Patron Welcome face.</p> <p>The list of My Checked Out Books and My Reserve Queue is displayed. My Checked Out Books shows: A Breath of Snow and Ashes by Diana Gabaldon Charlie and the Great Glass Elevator by</p>	<p>Displays the Login face to enter Username and Password.</p> <p>Program displays the Patron Welcome face.</p> <p>The list of My Checked Out Books and My Reserve Queue is displayed. My Checked Out Books shows: A Breath of Snow and Ashes by Diana Gabaldon Charlie and the Great Glass Elevator by</p>

		Roald Dahl The Dark is Rising by Susan Cooper	Roald Dahl The Dark is Rising by Susan Cooper
	Select A Breath of Snow and Ashes by Diana Gabaldon in My Checked Out Books. Select Return Selected Book (check result)	The list My Checked Out Books is updated to remove A Breath of Snow and Ashes by Diana Gabaldon, all else remains the same. My Reserve Queue remains the same with only Christine by Stephen King displayed.	The list My Checked Out Books is updated to remove A Breath of Snow and Ashes by Diana Gabaldon, all else remains the same. My Reserve Queue remains the same with only Christine by Stephen King displayed.
	Select Logout (check result)	The program displays the Login screen.	The program displays the Login screen.
	Select the X button at the upper right hand of the window frame	The program quits without error	The program quits without error

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## Document Revision History

Date	Author	Change Description
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07/06/2016	Benjamin Zich	Wrote the createPatron, patronCheckOut, and patronCheckIn.
07/21/2016	Benjamin Zich	Updated and tested createPatron, patronCheckOut, and patronCheckIn.