**HACETTEPE UNIVERSITY**

**Computer Engineering**
**BBM487 Software Engineering Laboratory**

**Library Book Loan System**
**Test Script**

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| Test Script | Group 9 |
|---|---|
| Book Loan System | Date: 16/05/2017 |

| Test Name | Login Test Case |
|---|---|
| **Use Case Tested:** | Login |
| **Test Description:** | This is the system login test |
| **Pre-conditions** | Opening the program. |
| **Post-conditions** | User enters the system. |
| **Result (Pass/Fail/Warning/Incomplete)** | **Pass** |

| | TEST STEP | EXPECTED TEST RESULTS | P | F |
|---|---|---|---|---|
| 1. | Member log in the system with username and password. | The system directs to Member Operations page. | + | |
| 2. | Librarian log in the system with username and password. | The system directs to Librarian Operations page. | + | |
| 3. | Member or Librarian enter the system with wrong username and password. | The system gives a warning message. | + | |

| Test Script | | Group 9 |
|---|---|---|
| Book Loan System | | Date: 16/05/2017 |

| Test Name | Logout Test Case | | |
|---|---|---|---|
| Use Case Tested: | Logout | | |
| Test Description: | This is the system log out test | | |
| Pre-conditions | User must be in the system. | | |
| Post-conditions | User leaves the system. | | |
| Result (Pass/Fail/Warning/Incomplete) | Pass | | |
| | TEST STEP | EXPECTED TEST RESULTS | P | F |
| 1. | Member log out the system by clicking logout button. | The system directs to opening page. | + | |
| 2. | Librarian log out the system by clicking logout button. | The system directs to opening page. | + | |

| Test Script | Group 9 |
|---|---|
| Book Loan System | Date: 16/05/2017 |

| Test Name | Sign Up Test Case |
|---|---|
| **Use Case Tested:** | Sign up |
| **Test Description:** | This is the system sign up test |
| **Pre-conditions** | User must open the sign up form. |
| **Post-conditions** | User registered in the system. |
| **Result (Pass/Fail/Warning/Incomplete)** | **Pass** |

| | TEST STEP | EXPECTED TEST RESULTS | P | F |
|---|---|---|---|---|
| 1. | User signs up with a username that is previously registered. | The system gives a warning message "Username already exist" | + | |
| 2. | User writes in the password box and confirm password box don't match, when user fills the sign up form | The system gives a warning message "Passwords do not match!" | + | |
| 3. | User signs up successfully. | The system gives a message "User saved!" and directs user to login page. | + | |

| Test Script | Group 9 |
|---|---|
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| Test Name | **Make Reservation Test Case** | | |
|---|---|---|---|
| **Use Case Tested:** | Make Reservation | | |
| **Test Description:** | This is the making reservation test | | |
| **Pre-conditions** | User must be in the Waiting List tab page. | | |
| **Post-conditions** | System must add the member into waiting list. | | |
| **Result (Pass/Fail/Warning/Incomplete)** | **Pass** | | |
| | **TEST STEP** | **EXPECTED TEST RESULTS** | **P** | **F** |
| 1. | Member making reservation to an unavailable book. | The system must add the member into waiting list. | + | |

| Test Script | Group 9 |
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| Book Loan System | Date:  16/05/2017 |

| Test Name | **Cancel Reservation Test Case** | | |
|---|---|---|---|
| **Use Case Tested:** | Cancel Reservation | | |
| **Test Description:** | This is the canceling reservation test | | |
| **Pre-conditions** | The member must be in the My Reservation tab page. | | |
| **Post-conditions** | Reservation must be canceled. | | |
| **Result (Pass/Fail/Warning/Incomplete )** | **Pass** | | |
| | **TEST STEP** | **EXPECTED TEST RESULTS** | **P** | **F** |
| 1. | Member cancels reservation to a book in the My Reservation tab page. | Reservation must be canceled. | + | |

| Test Script | Group 9 |
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| Test Name | **Search Book Test Case** | | |
|---|---|---|---|
| **Use Case Tested:** | Search book | | |
| **Test Description:** | This is the searching book test | | |
| **Pre-conditions** | The member must open searching interface. | | |
| **Post-conditions** | System lists the books that searched. | | |
| **Result (Pass/Fail/Warning/Incomplete )** | **Pass** | | |
| | **TEST STEP** | **EXPECTED TEST RESULTS** | **P** | **F** |
| 1. | Member enters book name and clicks search book. | The system lists the books contain entered name. | + | |
| 2. | Member enters author name and clicks search book. | The system lists the books contain entered author name. | + | |
| 3. | Member enters book code and clicks search book. | The system lists the books contain entered book code. | + | |

| Test Name | **Self Check Out Test Case** | | | |
|---|---|---|---|---|
| **Use Case Tested:** | Self Check Out | | | |
| **Test Description:** | This is the system self check out test | | | |
| **Pre-conditions** | The member must search the book. | | | |
| **Post-conditions** | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | **Pass** | | | |
| | **TEST STEP** | **EXPECTED TEST RESULTS** | **P** | **F** |
| 1. | Member self check out if book available | The system displays message "Check out succeed." | + | |
| 2. | Member self check out if book not available. | The system directs member to the Make Reservation. | + | |

| Test Script | Group 9 |
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| Test Name | Self ReturnTest Case | | |
|---|---|---|---|
| Use Case Tested: | Self Return | | |
| Test Description: | This is the system self return test | | |
| Pre-conditions | The member must open My Books tab page. | | |
| Post-conditions | Member returns the book in the system. | | |
| Result (Pass/Fail/Warning/Incomplete) | Pass | | |

| | TEST STEP | EXPECTED TEST RESULTS | P | F |
|---|---|---|---|---|
| 1. | Member selects a book line borrowed and click self return button. | The system displays message "Self Return succeed". | + | |

| Test Script | Group 9 |
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| Test Name | View My Books Test Case: | | |
|---|---|---|---|
| **Use Case Tested:** | View My Book | | |
| **Test Description:** | This is the viewing books test | | |
| **Pre-conditions** | The member must open My Books tab page | | |
| **Post-conditions** | The system must list books that member has. | | |
| **Result (Pass/Fail/Warning/Incomplete)** | **Pass** | | |

| | TEST STEP | EXPECTED TEST RESULTS | P | F |
|---|---|---|---|---|
| 1. | Member clicks view my books button. | The system lists books that member has. | + | |

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| Test Name | Pay Fine Test Case | | |
|---|---|---|---|
| Use Case Tested: | Pay Fine | | |
| Test Description: | This is the paying fine test | | |
| Pre-conditions | Members must list their fine by clicking List Active Fines | | |
| Post-conditions | Fine must be paid. | | |
| Result (Pass/Fail/Warning/Incomplete) | Pass | | |

| | TEST STEP | EXPECTED TEST RESULTS | P | F |
|---|---|---|---|---|
| 1. | Member select fine and click Pay Fine button. | Fine must be paid | + | |

| Test Script | Group 9 |
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| Test Name | **Communication with the Librarian Test Case** | | |
|---|---|---|---|
| **Use Case Tested:** | Communication with the Librarian | | |
| **Test Description:** | This is the communication with the librarian test | | |
| **Pre-conditions** | The member must be login. | | |
| **Post-conditions** | Member sees librarians' contact addresses. | | |
| **Result (Pass/Fail/Warning/Incomplete )** | **Pass** | | |

| | TEST STEP | EXPECTED TEST RESULTS | P | F |
|---|---|---|---|---|
| 1. | Member clicks communication with the librarian button. | Member sees librarians' contact addresses. | + | |

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| Test Name | **Manipulate Book Test Case** | | |
|---|---|---|---|
| **Use Case Tested:** | Manipulate Book | | |
| **Test Description:** | This is the manipulating book test | | |
| **Pre-conditions** | The member must be in Manipulate Book screen. | | |
| **Post-conditions** | Book must be inserted, updated or deleted. | | |
| **Result (Pass/Fail/Warning/Incomplete )** | **Pass** | | |

| | TEST STEP | EXPECTED TEST RESULTS | P | F |
|---|---|---|---|---|
| 1. | Librarian enters book information and clicks insert button. | The system displays message "Book Inserted" | + | |
| 2. | Librarian changes book information and clicks update button. | The system displays message "Book Updated" | + | |
| 3. | Librarian selects the line of book and clicks delete button. | The system displays message "Book Deleted" | + | |

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| Test Name | **Manipulate Member Test Case** | | |
|---|---|---|---|
| **Use Case Tested:** | Manipulate Member | | |
| **Test Description:** | This is the manipulating member test | | |
| **Pre-conditions** | The librarian must be in Manipulate Members screen. | | |
| **Post-conditions** | Manipulating member operations must be done. | | |
| **Result (Pass/Fail/Warning/Incomplete )** | **Pass** | | |

| | TEST STEP | EXPECTED TEST RESULTS | P | F |
|---|---|---|---|---|
| 1. | Librarian lists members by clicking List Member tab page then List Member button. | The system lists all members | + | |
| 2. | Librarian selects a member line and clicks on Deactive Member button. | The system makes the member deactive. | + | |
| 3. | Librarian selects a deactive member's line and click active member button. | The system makes the member active again. | | |
| 4. | Librarian clicks List Borrowed Books tab page then Show Books Borrowed button. | The system must list books borrowed. | | |
| 5. | Librarian clicks List Fine tab page then Show Fines button. | The system must list members' fine. | | |

| Test Script | Group 9 |
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| Test Name | **Notify of Book Being Available Test Case** | | |
|---|---|---|---|
| **Use Case Tested:** | Notify of Book Being Available | | |
| **Test Description:** | This is the checking if book available. | | |
| **Pre-conditions** | Book must be check out. | | |
| **Post-conditions** | The system changes book's status. | | |
| **Result (Pass/Fail/Warning/Incomplete)** | **Pass** | | |
| | **TEST STEP** | **EXPECTED TEST RESULTS** | **P** | **F** |
| 1. | **System checks book's status.** | The system changes books status. | + | |

| Test Script | Group 9 |
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| Test Name | **Issue Late Fine Test Case** | | |
|---|---|---|---|
| **Use Case Tested:** | Issue Late Fine | | |
| **Test Description:** | This is the calculating fine to pay test. | | |
| **Pre-conditions** | Book must be return to the system. | | |
| **Post-conditions** | The system calculates fine to pay. | | |
| **Result (Pass/Fail/Warning/Incomplete)** | **Pass** | | |

| | TEST STEP | EXPECTED TEST RESULTS | P | F |
|---|---|---|---|---|
| 1. | The system calculates fine to pay by checking return date and end date. | The system calculates fine to pay. | + | |