# Scenario #: BORROW A BOOK

## Scenario Description

The person should be the member of the library to borrow the book by their borrowing card. The member has to swipe their borrowing card and scan the barcode of the book. By doing this, the loan of that person is recorded in their borrowing card. The borrower can borrow multiple books by their similar card. The detail of the book and the member information is registered in the system of the library.

## Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Version # | Date | Author | Description |
| 1.0 | 11/09/2016 |  | If the user wants to borrow a book from the library than he/she should be the member of the library and also have current borrowing ID card. The record of the member must be saved in the library system. Already borrowed book cannot be borrowed again by the same user. The user should scan the book barcode during borrow the book. |
| 1.1 | 11/09/2016 |  | If the user wants to return a book, then he/she should have borrow slip and borrowing card. After returned the book, the user can borrow the same book or any other book. |
| 1.2 | 11/09/2016 |  | The member of the library can borrow the number of books by their updated card. |

## Test Scripts

The following scripts will cover this scenario:

* 1.0 Borrow a Book.
* 1.1 Return a Book.
* 1.2 Borrow Multiple Book.

## Use Case

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Actors** | **Use Cases** |
| 1. | Borrower | Borrow book |
| 2. | Borrower | Return book |
| 3. | Borrower | Borrowing Multiple Books |

## Test Components/Requirements

This test scenario covers the following high-level test requirements (see scripts below for specific requirements covered by each test script):

1. Borrow Book- For borrow a book, the user should be a member of the library and have a unique current ID card.
2. Return Book- For return a book, the user should have borrow slip.
3. Borrow multiple Books- The user can borrow multiple books via the same ID number.

## Script #: Script Name

### Script Description

### Test #1- ‘Borrow.'

| **Test Name** | <Borrow> |
| --- | --- |
| **Use Case Tested:** | <borrow a book> |
| **Test Description:** | 1. If the book is already borrowed- “FALSE.” 2. If the book is not borrowed- “TRUE.” |
| **Pre-conditions** | 1. For borrow and return the Book, the user should have ID number- “TRUE.” 2. Scan the book before borrow- “TRUE.” |
| **Post-conditions** | 1. After borrowing a book, the user should have Borrow slip- “TRUE.” 2. The status of borrowed books is updated to ON\_LOAN- “TRUE. |

### Test #2- ‘Book returned.'

| **Test Name** | <Book returned> |
| --- | --- |
| **Use Case Tested:** | <Return a book> |
| **Test Description:** | 1. If the book is not returned- “FALSE” to borrow the book again. 2. If the book is returned- “TRUE” to borrow the book. |
| **Pre-conditions** | 1. For return the Book, the member should have current ID number- “TRUE.” 2. The member should have borrow slip- “TRUE.” |
| **Post-conditions** | If the User returned the book, then he/she can borrow the same book- “TRUE.” |

### Test #3- ‘Multiple Books’

| **Test Name** | <Multiple> |
| --- | --- |
| **Use Case Tested:** | <Multiple Books> |
| **Test Description:** | 1. The user cannot borrow multiple books- “FALSE.” 2. The user can borrow same books often- “FALSE.” 3. The user can borrow multiple books with the same ID number- “TRUE.” |
| **Pre-conditions** | For return the Book, the user should have ID number and Borrow slip- “TRUE.” |
| **Post-conditions** | If the User returned the book, then he/she can borrow the same book- “TRUE.” |

### Testing Requirements

This test script covers the following specific testing requirements:

1. Borrow with test ID is 1.0.
2. Return a book with test ID is 1.1.
3. Multiple Books with test ID is 1.2.

### Setup

All the three test cases have been tested i.e. Borrow, Return a book and Multiple Books with each of different test ID. All the required steps that should be completed prior to executing this script:

1. Updated borrowing ID card for borrow the books.
2. Swipe the card.
3. Scan the book before return.
4. Check the member detail whether he/she is eligible for borrow the books.
5. Loan record became updated.
6. The record of the book and the member must be saved in the library system.
7. Print the borrow slip.

### Teardown

Here is the list of all those which is done after the test case is executed:

1. Update the borrowing card.
2. Update the loan record.
3. No new loan record had added in the system.
4. Record of book and member should be saved in the system.

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| --- | --- | --- | --- |
| 1 | The user should member of the library | True | Pass |
| 2 | Borrow Book with ID:10211 | True | Pass |
| 3 | Borrowing card is updated | True | Fail |
| 4 | Loan record updated | True | Fail |
| 5 | Scan the book barcode | True | Pass |
| 6 | Multiple Books borrowed | True | Pass |
| 7 | Check the member detail | True | Fail |
| 8 | Borrow slip | True | Fail |
| 9 | Scan the multiple books borrowed | True | Fail |
| 10 | Must show the restriction message if the user is not eligible for borrowing the book. | True | Pass |
| 11 | Returned Multiple Books | True | Fail |
| 12 | Card and Loan status updated | True | Fail |

### Test Execution

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | Status |
| 9/11/16 11:35 am |  | 1.0 | System Cycle 1 | Passed |
| 9/14/16 3:45 pm |  | 1.1 | System Cycle 2 | Passed |
| 9/16/16 4:45 pm |  | 1.2 | System Cycle 3 | Passed |