# Library

# Use-Case: Borrow Book

1. Brief Description

When a member of the library

Wants to borrow a book they swipe their borrowing card, and scan the books they want to borrow

So that the loans are registered in their borrowing record and they can take the books home.

1. Actors
   1. Borrower

The borrower is a member of the library who wishes to borrow a book.

1. Pre-Conditions
   1. The member has a current borrowing card.
   2. All books selected must be shelved in the public area, and have valid book barcodes identifying them to the library system.
2. Normal Flow

The use case begins when the borrower takes their selected books to the self service station

|  |  |
| --- | --- |
| Actor | System |
| 1 The borrower selects the borrow function. | 2 The system prompts the user to swipe their borrowing card. |
| 3 The borrower swipes their borrowing card. | 4 The system checks the borrower’s record |
|  | 5 The system displays the scanning enabled screen. |
|  | 6 The system displays the borrower’s details. |
|  | 7 The system displays the borrowers existing loans. |
| 8 The borrower scans a book. | 9 The system displays the book’s details. |
|  | 10 The system adds the book to the pending loan list. |
| 11 The borrower indicates they have completed scanning their books. | 12 The system display’s the pending loan list for confirmation. |
| 13 The borrower confirms the pending loan list. | 14 The system records the loans, and adds them to the borrower’s record of current loans. |
|  | 15 The system prints a loan slip. |

The use case ends.

1. Alternate Flows
   1. **Borrowing Restricted**

If at step 4 of the normal flow the borrower is restricted from borrowing, then

|  |  |
| --- | --- |
| Actor | System |
|  | 4.1 The system displays the borrowing restricted screen |
|  | 4.2 The system displays the borrower’s details. |
|  | 4.3The system displays existing loan details. |
| 4.4 The borrower cancels borrowing |  |

The use case ends.

* 1. **More Books to Scan**

If at step 10 of the normal flow the borrower has more books to borrow, then

|  |  |
| --- | --- |
| Actor | System |
| 10. 1 The borrower scans another book |  |

The normal flow is resumed at step 8.

* 1. **At loan limit**

If at step 10.1 of alternate flow ‘More Books to Scan’ the borrower has reached the loan limit, then

The normal flow is resumed at step 12.

* 1. **More Books to Scan**

If at step 12 of the normal flow the borrower rejects the current pending loan list, then

The normal flow is resumed at step 5. (This deletes the current pending loan list.)

1. Subflows
2. Key Scenarios
   1. Successful Completion – Books Borrowed

The borrower successfully borrows their books

* 1. Borrowing Restricted – No Books Borrowed

The borrower cannot borrow any books.

1. Post-conditions
   1. Successful Completion – Books Borrowed

All loans are recorded.

The borrowed books status is updated to ON\_LOAN.

The borrower’s loan record is updated with the new loans.

* 1. Borrowing Restricted – No Books Borrowed

No new loans are recorded.

No books status is changed.

The borrower’s loan record is not updated.

1. Special Requirements