**Borrow-00 – Prepare Borrow Book:**

Description: The system identifies the borrower, considers their borrowing status and prepares for borrowing

Pre-conditions:

* The system is reset in its initial state waiting for the user to select the borrow button,
* The borrower must be a member of the library with a valid membership card.

Post-conditions: The Borrow Book interface is presented

Data required: A Valid Borrower ID

**Borrow-01 - Successfully Borrow A Book**

Description: A borrower swipes their library card. If there are no borrowing restrictions they then scan the barcode of each book they wish to borrow. When they have scanning all the books they wish to borrow, a loan slip is printed.

Pre-conditions:

* A member of the library who wishes to borrow a book
* The borrower must be a member of the library with a valid membership card.
* There are books to borrow.

Post-conditions:

* The user successfully borrows a book.

Data required:

* A Valid Borrower ID.
* A book to scan.(0003)

**Borrow-02 - Borrowing multiple books.**

Description: After Test case Borrow-01, the user chooses to borrow more books.

Pre-conditions:

* A member of the library who wishes to borrow a book
* The borrower must be a member of the library with a valid membership card.
* There are books to borrow.
* The user has completed a round of borrowing (Borrow-01)

Post-conditions:

* The user successfully borrows a book.

Data required:

* A Valid user id (User 0001)
* A Book to scan.

**Borrow-03 - Loan Limit Reached**

Description: After scanning several books the user reaches the loan limit, preventing them from scanning further books

Pre-conditions:

* A member of the library who wishes to borrow a book
* The borrower must be a member of the library with a valid membership card.
* There are books to borrow.
* The user has previously swiped their card and has successfully scanned several books.

Post-conditions: The user is unable to scan books more books as the scanner is disabled.

Data required: A Valid user id (User 0005), Books (0003, 0004)

**Borrow-04 - Borrowing With Borrowing Restrictions due to Overdue loans**

Description A borrower swipes their library card and the system finds that the borrower has borrowing restrictions due to overdue loans, Preventing them from borrowing.

Pre-conditions: Borrower has borrowing restrictions due to overdue loans

Post-conditions: The user is unable to scan books as the scanner is disabled, the user cancels.

Data required: A Valid Borrower ID (User 0003), user with borrowing restriction.

**Borrow-05 - Borrowing With Borrowing Restrictions due to fines**

Description: A borrower swipes their library card and the system finds that the borrower has borrowing restrictions due exceeding the maximum amount of fines owing. Preventing them from borrowing.

Pre-conditions: Borrower has borrowing restrictions due to maximum fines owing.

Post-conditions: The user is unable to scan books as the scanner is disabled, the user cancels.

Data required: A Valid Borrower ID (User 0002) , user with borrowing restriction.

**Borrow-06 - Borrowing With Borrowing Restrictions due to maximum books**

Description A borrower swipes their library card and the system finds that the borrower has borrowing restrictions due borrowing the maximum number of books permitted. Preventing them from borrowing.

Pre-conditions: Borrower has borrowing restrictions due to maximum books borrowed – user 0005 tries to borrow several books

Post-conditions: The user is unable to scan books as the scanner is disabled, the user cancels.

Data required: A Valid Borrower ID (User 0005), user with borrowing restriction, Several books (0003, 00004).

**Borrow-07 - Finalized Loan List cancelled**

Description: After swiping their card and scanning several books the user decides to cancel the loan.

Pre-conditions: The swipes their card and scans a number of books

Post-conditions: The pending loan list is cleared

Data required: A Valid borrower card (user 0001), Several books (0003, 00004)

**Borrow-08 - User chooses not to borrow any books**

Description: After swiping their card the user chooses to not scan any books.

Pre-conditions: The user swipes their card,

Post-conditions:The borrower is logged out of the system, returning the system to the borrow button.

Data required: Any valid user id (0001)