| **Test Name** | | | **Borrow-00 – Prepare Borrow Book** | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | Borrow Book | | | |
| **Test 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 | | | |
| **Notes:** | |  | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | |  | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | P | F |
|  | borrower initiates a loan at the selfservice station. | | | The swipe card box becomes active | X |  |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
|  |  | | |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Data Table** | | | | | |
|  | **1** | **2** | **3** | **4** | **5** |
| [Data field 1] | [data set 1 input value for field 1] |  |  |  |  |
| [Data field 2] | [data set 1 input value for field 2] |  |  |  |  |
| [Data field 3] | [data set 1 input value for field 3] |  |  |  |  |

| **Test Name** | | | **Borrow-01 - Successfully Borrow A Book** | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | Borrow Book | | | |
| **Test 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. | | | |
| **Notes:** | |  | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | |  | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | P | F |
|  | borrower initiates a loan at the selfservice station. | | | The swipe card box becomes active | p |  |
|  | The borrower swipes their library card through the library card reader. | | | The System prompts the user to scan a book | p |  |
|  | The user scans a book barcode using the book barcode scanner | | | The system displays the book’s details | p |  |
|  |  | | | The system adds the new pending loan to the pending loan list, and displays the list |  | f |
|  | The borrower indicates they have finished scanning books. | | | The system disables the scanner. |  | f |
|  |  | | | The system displays the finalized pending loan list |  | f |
|  | The borrower confirms the finalized pending loan list. | | | The system records the confirmed loans. |  | f |
|  |  | | | The system prints a borrowing slip. |  | f |
|  |  | | |  |  |  |

| **Test Name** | | | **Borrow-02 - Borrowing multiple books.** | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | Borrow Book | | | |
| **Test 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. | | | |
| **Notes:** | |  | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | |  | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | P | F |
|  | (Follow Borrow-01) | | |  |  | f |
|  | The borrower indicates they wish to scan more books. | | | The system leaves the scanner enabled |  | f |
|  | (Follow Steps from Borrow-01) | | | Another book is able to be added. |  | f |

| **Test Name** | | | **Borrow-03 - Loan Limit Reached** | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | Borrow Book | | | |
| **Test 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. | | | |
| **Notes:** | |  | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | |  | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | P | F |
|  | borrower initiates a loan at the selfservice station. | | | The swipe card box becomes active |  | f |
|  | The borrower swipes their library card through the library card reader. | | | The system displays a message telling the user they have reached the loan limit |  | f |

| **Test Name** | | | **Borrow-04 - Borrowing With Borrowing Restrictions due to Overdue loans** | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | Borrow Book | | | |
| **Test 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. | | | |
| **Notes:** | |  | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | |  | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | P | F |
|  | borrower initiates a loan at the selfservice station. | | | The swipe card box becomes active |  | f |
|  | The borrower swipes their library card through the library card reader. | | | The system displays a message telling the user they has overdue loans |  | f |
|  |  | | |  |  |  |

| **Test Name** | | | **Borrow-05 - Borrowing With Borrowing Restrictions due to fines** | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | Borrow Book | | | |
| **Test 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 | | | |
| **Notes:** | |  | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | |  | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | P | F |
|  | borrower initiates a loan at the selfservice station. | | | The swipe card box becomes active |  | f |
|  | The borrower swipes their library card through the library card reader. | | | The system displays a message telling the user they have overdue fines. |  | f |
|  |  | | |  |  |  |

| **Test Name** | | | **Borrow-06 - Borrowing With Borrowing Restrictions due to maximum books** | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | Borrow Book | | | |
| **Test 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. | | | |
| **Notes:** | |  | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | |  | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | P | F |
|  | borrower initiates a loan at the selfservice station. | | | The swipe card box becomes active |  | f |
|  | The borrower swipes their library card through the library card reader. | | | The system displays a message telling the user they have overdue fines. |  | f |
|  |  | | |  |  |  |

| **Test Name** | | | **Borrow-07 - Finalized Loan List cancelled** | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | Borrow Book | | | |
| **Test 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 | | | |
| **Notes:** | |  | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | |  | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | P | F |
|  | (Follow Borrow0001 twice) | | | 2 books are added |  |  |
|  | The user chooses to cancel | | | The pending loan list is cleared. |  |  |
|  |  | | | The user is logged out and return to the borrow button |  |  |

| **Test Name** | | | **Borrow-08 - User chooses not to borrow any books** | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | Borrow Book | | | |
| **Test 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. | | | |
| **Notes:** | |  | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | |  | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | P | F |
|  | borrower initiates a loan at the selfservice station. | | | The swipe card box becomes active |  |  |
|  | The borrower indicates they wish to scan more books. | | | The system leaves the scanner enabled |  |  |
|  | The user chooses cancel | | | The user is logged out and return to the borrow button |  |  |