| **Test Name** | | | Borrow Book Test 1 | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | Borrow Book Normal Flow | | | |
| **Test 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. | | | |
| **Pre-conditions** | | | * 1. The member has a current borrowing card.   2. All books must have valid book barcodes identifying them to the library system. | | | |
| **Post-conditions** | | | 1. Successful Completion – Books Borrowed 2. All loans are recorded. 3. The borrowed books status is updated to ON\_LOAN. 4. The borrower’s loan record is updated with the new loans | | | |
| **Notes:** | |  | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | |  | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | P | F |
|  | The borrower selects the borrow function | | | Borrow Book UI is displayed  Swipe Card panel is displayed  CardReader is enabled  Scanner is disabled  BorrowBookCTL state set to INITIALIZED | Y  Y  Y  Y  Y |  |
|  | The borrower swipes their card | | | Scanning Panel is displayed  Card Reader is disabled  Scanner is Enabled  Borrower Details displayed  Existing loans displayed  BorrowBookCTL state set to SCANNING\_BOOKS | Y  Y  Y  Y  Y  Y |  |
|  | The borrower scans a book to borrow | | | Scanning panel is displayed  Card Reader is disabled  Scanner is enabled  Scan count is incremented by 1  Scanned book details are displayed  New pending loan created  Current pending loan list displayed  borrowBookCTL state set to SCANNING \_BOOKS | Y  Y  Y  Y  Y  Y  Y  Y |  |
|  | The borrower completes scanning books | | | Confirming loan Panel displayed  List of pending loans displayed  Card Reader disabled  Scanner disabled  BorrowBookCTL state set to CONFIRMING\_LOANS | Y  Y  Y  Y  Y |  |
|  | The borrower confirms the loans | | | Main Menu displayed  All pending loans are committed  Loan slip printed  Card Reader disabled  Scanner disabled  BorrowBookCTL state set to COMPLETED | Y  **Y**  **Y**  **Y**  **Y**  **Y** |  |