| **Test Name** | | | Book on Loan, Not Found, In List | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | Borrow Book | | | |
| **Test Description:** | | | This test case will run the user through a perfect scenario with a user that has no fines or no loans and will test that a book is on loan, not found or already in the pending loan list. | | | |
| **Pre-conditions** | | | Test data is created within the program | | | |
| **Post-conditions** | | | The user attempted to borrow a book on loan, could not Find a book that does not exist and could not borrow a book twice | | | |
| **Notes:** | |  | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | | **Pass** | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | P | F |
|  | Open the program | | | The program opens with 4 panels *Display*, *Card* *Reader*, *Scanner* and *Printer*. Only the *Display* panel is active | X |  |
|  | Press the **Borrow Books** button | | | The *Card Reader* becomes active.  The *Display* panel changes to give a **Cancel** button | X |  |
|  | Input Member ID, press **Swipe Card** button | | | The *Card Reader* becomes inactive  The *Scanner* becomes active  The *Display* panel changes to list the following   * Member details   + ID (1)   + Name (fName0 lName0)   + Contact (0001) * Lists any borrowing restriction (None) * Lists any existing loans (None) * Current book that was just scanned (None) * The pending loan list (None) * A **Complete** and **Cancel** button | X |  |
|  | Enter the Book ID 1 into the *Scanner* panel. Press the **Scan Book Barcode** button. | | | Error message displays saying ***Book not available***  The book is not added to the list | X |  |
|  | Enter the Book ID 16 into the *Scanner* panel. Press the **Scan Book Barcode** button. | | | Error message displays saying ***Book not found***  No book is added to the list | X |  |
|  | Enter the Book ID 10 into the *Scanner* panel. Press the **Scan Book Barcode** button. | | | A valid book is scanned | X |  |
|  | Repeat step 6 | | | Error message displays saying ***Book already scanned***  The book is not added to the list | X |  |
|  | Close the program pressing the **X** in the top right of the *Display panel* | | | The program closes | X |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Data Table** | | | | | |
|  | **1** | **2** | **3** | **4** | **5** |
| Member ID | 1 |  |  |  |  |
| Book ID | 1 | 16 | 10 | 10 |  |