| **Test Name** | | | UATs – Three Scenarios | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | Borrow Book | | | |
| **Test Description:** | | | Scenario One:  A member with 2 existing loans and $3.00 of fines payable wants to borrow three more books.  The member scans the three valid books, and confirms the loan.  Scenario Two:  A member with no existing loans or fines scans three books, one of which is a duplicate (same ID as a previous book). The member clicks completed but does not confirm the loans – instead they reject the loans and cancel the borrowing.  Scenario Three:  A member with no existing loans or fines attempts to scan an invalid member ID. The member then scans a valid member ID. The member inputs an invalid book ID (book doesn’t exist). The member inputs the ID for a book that is DISPOSED and can’t be borrowed. Finally, the member inputs the ID for a valid book. The member clicks completed and confirms the loan. | | | |
| **Pre-conditions** | | | Scenario One:   * MemberDAO contains a member with the right details for this particular test ($3.00 of fines + 2 existing loans) * BookDAO contains at least 3 available books to scan * Main Menu panel of BorrowUI is displayed * BorrowUC\_CTL exists and state == CREATED * DAO objects and all variables for BorrowUC\_CTL have been initialized, including printer * Reader, scanner, printer and display are visible   Scenario Two:   * MemberDAO contains a member with the right details for this particular test (no loans, no fines) * BookDAO contains at least 2 available books to scan * Main Menu panel of BorrowUI is displayed * BorrowUC\_CTL exists and state == CREATED * DAO objects and all variables for BorrowUC\_CTL have been initialized, including printer * Reader, scanner, printer and display are visible   Scenario Three:   * MemberDAO contains a member with the right details for this particular test (no loans, no fines) * BookDAO contains at least 2 available books to scan. One of these books must be in the DISPOSED state. * Main Menu panel of BorrowUI is displayed * BorrowUC\_CTL exists and state == CREATED * DAO objects and all variables for BorrowUC\_CTL have been initialized, including printer * Reader, scanner, printer and display are visible | | | |
| **Post-conditions** | | | Scenario One:   * Correct loan details are displayed on the printer window * 3 new loans are associated with the member * Card reader is disabled * Scanner is disabled * Main Menu displayed   Scenario Two:   * Card reader is disabled * Scanner is disabled * No loans associated with member * “Book Already Scanned” error message is displayed when duplicate book is scanned   Scenario Three:   * Card reader is disabled * Scanner is disabled * Correct loan details are displayed on the printer window * One new loan is associated with the member * Main Menu displayed * “Member Not Found” error message is displayed when invalid member ID is scanned * “Book Not Found” error message is displayed when invalid book ID is scanned * “Book Not Available” error message is displayed when DISPOSED book is scanned | | | |
| **Notes:** | |  | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | |  | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | P | F |
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| **Test Data Table** | | | | |
|  | **Member ID** | **Book One** | **Book Two** | **Book Three** |
| Scenario 1 | 100 | 100 | 200 | 300 |
| Scenario 2 | 200 | 100 | 100 | 300 |