| **Test Name** | | Swipe Borrower Card |
| --- | --- | --- |
| **Use Case Tested:** | | Swipe Borrower Card Use Case |
| **Test Description:** | | Intent: Identify borrower to system  Signature: cardSwiped(borrowerId) |
| **Pre-conditions** | | * cardReader visible and enabled * BorrowBookCTL added as listener to cardReader * memberDAO exists * BorrowBookCTL state == INITIALIZED |
| **Post-conditions** | | Refer to the “Test Data Table”. |
| **Notes:** |  | |
| **Result (Pass/Fail/Warning/Incomplete)** |  | |

|  | **TEST STEP** | **EXPECTED TEST RESULTS** | P | F |
| --- | --- | --- | --- | --- |
| Test 1 – Borrower not restricted | | | | |
|  | Enter member Id ‘1’, and press ‘Swipe Card’. | * Scanning panel of BorrowBookUI displayed * Complete, Cancel buttons enabled * cardReader is disabled * scanner is enabled * borrower details displayed |  |  |
| Test 2 – Borrower is restricted (has outstanding fines) | | | | |
|  | Enter member Id ‘2’, and press ‘Swipe Card’. | * Restricted panel of BorrowBookUI displayed * Cancel button enabled * cardReader is disabled * scanner is disabled * borrower details displayed * existing loans displayed * overdue message displayed if relevant * atLoanLimit message displayed if relevant * borrowing restricted error message displayed |  |  |
| Test 2 – Borrower is restricted (has overdue loans) | | | | |
|  | Enter member Id ‘3’, and press ‘Swipe Card’. | * Restricted panel of BorrowBookUI displayed * Cancel button enabled * cardReader is disabled * scanner is disabled * borrower details displayed * atLoanLimit message displayed if relevant * borrowing restricted error message displayed |  |  |
| Test 2 – Borrower is restricted (over loan limit) | | | | |
|  | Enter member Id ‘3’, and press ‘Swipe Card’. | * Restricted panel of BorrowBookUI displayed * Cancel button enabled * cardReader is disabled * scanner is disabled * borrower details displayed * atLoanLimit message displayed if relevant * borrowing restricted error message displayed |  |  |

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| **Test Data Table** | |
|  | **Test 1** |
| Member exists and not restricted | * Scanning panel of BorrowBookUI displayed * Complete, Cancel buttons enabled * cardReader is disabled * scanner is enabled * borrower details displayed * existing loans displayed * scan count initialized as number of * existing loans * existing fine message displayed if relevant * BorrowBookCTL state == ***SCANNING\_BOOKS*** |
| Member exists and is restricted | * Restricted panel of BorrowBookUI displayed * Cancel button enabled * cardReader is disabled * scanner is disabled * borrower details displayed * existing loans displayed * existing fine message displayed if relevant * overdue message displayed if relevant * atLoanLimit message displayed if relevant * borrowing restricted error message displayed * BorrowBookCTL state == ***BORROWING\_RESTRICTED*** |