| **Test Case Name** | | **Borrows book with no restrictions - success** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | Borrow Book | | | | | |
| **Test Description:** | | Navigate through the UI and borrow a book | | | | | |
| **Pre-conditions:** | | * Test data created * Program just opened (hasn’t had a member selected yet) * At ‘Created’ main display panel | **Postconditions:** | | * When borrower repeats this procedure up to Step 2, the loan that appeared in the Confirming panel appears under current loans (confirmed by steps 6-7) | | |
| **Notes:** | |  | | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | | **Pass** | | | | | |
| **TEST STEP** | | | | **EXPECTED TEST RESULTS** | | P | F |
| 1. | Click Borrow Books | | | * Swipe Card panel enabled * Other non-main panels disabled * Main panel changes to ‘Swipe Card’ state | |  |  |
| 2. | Enter member id (0) and click Swipe Card | | | * Swipe Card panel disabled * Scan Book panel enabled * Main panel changes to ‘Scan Book’ state * Member details (0) displayed * Nothing displayed in Restricted | | y |  |
| 3. | Enter book id (14) and click Scan Book | | | * Book information appears under Book * Loan with borrower (0) and book (14) appears in pending loans | | Y |  |
| 4. | Click Complete | | | * Main display changes to ‘Confirming’ state * Same loan appears in display (as pending before) | | Y |  |
| 5. | Click Confirm | | | * Main display changes to ‘Created’ state * All other panels disabled | | Y |  |
| 6. | Repeat Step 1 | | | * Same as Step 1 | | Y |  |
| 7. | Repeat Step 2 | | | * Same as Step 2 but with the loan just created appearing under ‘current loans’ | | y |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Data Table** | | | | | |
|  | **1** | **2** | **3** | **4** | **5** |
| Member | 0 |  |  |  |  |
| Book | 14 |  |  |  |  |
|  |  |  |  |  |  |

| **Test Case Name** | | **Borrows book with partial fine restrictions - success** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | Borrow Book | | | | | |
| **Test Description:** | | Navigate through the UI and borrow a book | | | | | |
| **Pre-conditions:** | | * Test data created * Program just opened (hasn’t had a member selected yet) * At ‘Created’ main display panel | **Postconditions:** | | * When borrower repeats this procedure up to Step 2, the loan that appeared in the Confirming panel appears under current loans (confirmed by steps 6-7) | | |
| **Notes:** | |  | | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | | **Pass** | | | | | |
|  | **TEST STEP** | | | **EXPECTED TEST RESULTS** | | P | F |
|  | Click Borrow Books | | | * Swipe Card panel enabled * Other non-main panels disabled * Main panel changes to ‘Swipe Card’ state | | Y |  |
| 2. | Enter member id (4) and click Swipe Card | | | * Swipe Card panel disabled * Scan Book panel enabled * Main panel changes to ‘Scan Book’ state * Member details (4) displayed * Fines (less than maximum fine) displayed in Restricted section * No loans displayed in current loans section | | Y |  |
| 3. | Enter book id (14) and click Scan Book | | | * Book appears under Book * Loan with borrower (4) and book (14) appears in pending loans | | Y |  |
| 4. | Click Complete | | | * Main display changes to ‘Confirming’ state * Same loan appears in display (as pending before) | | Y |  |
| 5. | Click Confirm | | | * Main display changes to ‘Created’ state * Loan displayed in Printer | | Y |  |
| 6. | Repeat Step 1 | | | * Same as Step 1 | | Y |  |
| 7. | Repeat Step 2 | | | * Same as Step 2 except the same loan (as appeared in the Printer) appears in the pending loan list. | | Y |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Data Table** | | | | | |
|  | **1** | **2** | **3** | **4** | **5** |
| Member | 4 |  |  |  |  |
| Book | 14 |  |  |  |  |
|  |  |  |  |  |  |

| **Test Name** | | | | **Borrows book with partial loan restrictions - success** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | | Borrow Book | | | | | | | | |
| **Test Description:** | | | | Navigate through the UI and borrow a book | | | | | | | | |
| **Pre-conditions** | | | | * Test data created * At ‘Created’ screen | | | | | | | | |
| **Post-conditions** | | | | * When borrower swipes their card:   + Loans (less than max loans) are shown in current loans.   + No fines are shown in Borrowing Restrictions * When borrower next swipes their card, the loan is displayed in current loans. | | | | | | | | |
| **Notes:** | | |  | | | | | | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | | |  | | | | | | | | | |
|  | **TEST STEP** | | | | | **EXPECTED TEST RESULTS** | | | | P | F | |
|  | Click Borrow Books | | | | | * Swipe Card panel enabled * Other non-main panels disabled * Main panel changes to ‘Swipe Card’ state | | | |  |  | |
|  | Enter member id (1) and click Swipe Card | | | | | * Swipe Card panel disabled * Scan Book panel enabled * Main panel changes to ‘Scan Book’ state * Member details (1) displayed * No fines displayed in Restricted section * Loans displayed in current loans section | | | |  |  | |
|  | Enter book id (14) and click Scan Book | | | | | * Book appears under Book * Loan with borrower (1) and book (14) appears in pending loans | | | |  |  | |
|  | Click Complete | | | | | * Main display changes to ‘Confirming’ state * Same loan appears in display (as pending before) | | | |  |  | |
|  | Click Confirm | | | | | * Main display changes to ‘Created’ state * Loan displayed in Printer | | | |  |  | |
| **Test Data Table** | | | | | | | | | | | |
|  | | **1** | | | **2** | | **3** | **4** | **5** | | |
| Member | | 1 | | |  | |  |  |  | | |
| Book | | 14 | | |  | |  |  |  | | |
|  | |  | | |  | |  |  |  | | |

| **Test Name** | | | | **Borrows book with loan restrictions - failure** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Use Case Tested:** | | | | Borrow Book | | | | | | | | |
| **Test Description:** | | | | Navigate through the UI and attempt to borrow a book | | | | | | | | |
| **Pre-conditions** | | | | * Test data created * At ‘Created’ screen | | | | | | | | |
| **Post-conditions** | | | | * When borrower swipes their card:   + Loans (max number of loans) are shown in current loans.   + No fines are shown in Borrowing Restrictions * When borrower next swipes their card, the loan is displayed in current loans. | | | | | | | | |
| **Notes:** | | |  | | | | | | | | | |
| **Result (Pass/Fail/Warning/Incomplete)** | | |  | | | | | | | | | |
|  | **TEST STEP** | | | | | **EXPECTED TEST RESULTS** | | | | P | F | |
|  | Click Borrow Books | | | | | * Swipe Card panel enabled * Other non-main panels disabled * Main panel changes to ‘Swipe Card’ state | | | |  |  | |
|  | Enter member id (1) and click Swipe Card | | | | | * Swipe Card panel disabled * Scan Book panel enabled * Main panel changes to ‘Scan Book’ state * Member details (1) displayed * No fines displayed in Restricted section * Loans displayed in current loans section | | | |  |  | |
|  | Enter book id (14) and click Scan Book | | | | | * Book appears under Book * Loan with borrower (1) and book (14) appears in pending loans | | | |  |  | |
|  | Click Complete | | | | | * Main display changes to ‘Confirming’ state * Same loan appears in display (as pending before) | | | |  |  | |
|  | Click Confirm | | | | | * Main display changes to ‘Created’ state * Loan displayed in Printer | | | |  |  | |
| **Test Data Table** | | | | | | | | | | | |
|  | | **1** | | | **2** | | **3** | **4** | **5** | | |
| Member | | 1 | | |  | |  |  |  | | |
| Book | | 14 | | |  | |  |  |  | | |
|  | |  | | |  | |  |  |  | | |