1.Initialise Borrow Book Use Case

Description

This Test Case is to test that the main menu of the library system is working properly for users and to test that clicking on borrow books button opens the Initialised Borrow Book interface.

Pre-conditions

1.The system displays the Main Menu, Card Reader interface, scanner interface, and printer interface.

Post-conditions

1. The Initialised Borrow Book interface is displayed.

2. Swipe Card panel of Borrow Book interface is displayed.

3. Cancel button of Borrow Book interface is enabled.

4. Card reader Interface is enabled

5. Scanner is disabled

|  |  |  |
| --- | --- | --- |
|  | **Test Data Table** | |
| ID | **Input** | **Output** |
| 1.1 | Run Programe | Running program |
| 1.2 | Click cancel button | cancelled |

2.Identify borrower to system

Description

This Test Case is to test that the Card Reader interface is working properly for users and to test that members' Ids are exists in the system.

Pre-conditions

1. The Card Reader interface is visible and enabled.

Post-conditions:

1. Scanning interface is displayed.

2 Complete, Cancel buttons are enabled.

3 Card Reader interface is disabled.

4 Scanner is enabled.

5 Borrower details are displayed.

6 Existing loans are displayed.

7 Existing loans are displayed.

8 Existing fine message are displayed if relevant

9 Current loans are displayed.

|  |  |  |
| --- | --- | --- |
| ID | **Test Data Table** | |
|  | **Input** | **Output** |
| 2.1 | 0 | Error Message(Member ID must be a positive integer) |
| 2.2 | 1 | Borrower Details found |
| 2.3 | 2 | Outstanding fines borrower has found |
| 2.4 | -1 | Error Message(Member ID must be a positive integer) |
| 2.5 | abc | Error Message(Member ID must be a positive integer) |

3.Complete Scans

Description

This Test Case is to test that the Initialized Borrow Book interface is working properly for users and to test that clicking on Cancel button returns back to the main menu.

**PreConditions:**

BorrowBookCTL class exists

Pending loan list exists

BorrowBookCTL state == ***SCANNING\_BOOKS***

**PostConditions:**

BorrowBookUI is displayed

Confirming Loan panel of BorrowBookUI

Is displayed

List of pending loans displayed

Cancel button enabled

cardReader is disabled

scanner is disabled

BorrowBookCTL state == ***CONFIRMING\_LOANS*** is disabled.

|  |  |  |
| --- | --- | --- |
|  | **Test Data Table** | |
| ID | **Input** | **Output** |
| 3.1 | 0 | Book barcode must be a positive integer |
| 3.2 | 1 | Book no 1 is not available on loan |
| 3.3 | 10 | Book scanning completed |
| 3.4 | -1 | Book barcode must be a positive integer |
| 3.5 | abc | Book barcode must be a positive integer |
| 3.6 | Click complete button | Completed |
| 3.7 | Click cancel botton | Return back to main interface |

4.Confirm Loans

Description

This Test Case is to test that the borrowing book process can be completed properly

Pre-conditions

Borrow Book Interface is displayed

Confirming Loan panel of Borrow Book Interface Is displayed

List of pending loans is displayed

Reject Button, Cancel button and confirm button are enabled

Card Reader is disabled

scanner is disabled

Post-conditions:

Main Menu is displayed

All pending loans are committed and recorded

Loan slip of committed loans printed

cardReader is disabled

scanner is disabled

|  |  |  |
| --- | --- | --- |
|  | **Test Data Table** | |
| ID | **Input** | **Output** |
| 4.1 | Click confirm button | Print Details |

5.Reject Loans

Description

This Test Case is to test that the current list of pending loans can be rejected and can be started the scanning process again properly

Pre-conditions

Borrow Book Interface is displayed

Confirming Loan panel of Borrow Book Interface Is displayed

List of pending loans is displayed

Reject Button, Cancel button and confirm button are enabled

Card Reader is disabled

scanner is disabled

Post-conditions:

BorrowBookUI is displayed

Scanning panel of BorrowBookUI displayed

Borrower details displayed

Existing loan details displayed

pending loan list is empty

scan count == number of existing loans

Cancel button and Completed button are enabled

cardReader is disabled

scanner is enabled

|  |  |  |
| --- | --- | --- |
| ID | **Test Data Table** | |
|  | **Input** | **Output** |
| 5.1 | Click reject button | Return to previous window |
| 5.2 | click cancel button | Return back to main interface |