**TC\_1 - isBorrowUIDisplayed:**

Description: When a member of the library selects the borrow function of the system.

Pre-conditions: The application is running  
Post-conditions: Borrow UI is displayed  
Data required: none

**TC\_2 – borrowbuttonpressed:**

Description: borrow button has been pressed

Pre-conditions: Borrow UI is displayed  
Post-conditions: Swipe Card panel is displayed, Cancel button enabled, Card reader enabled, Scanner disabled, state set to initialized.  
Data required: none

**TC\_3 – hasCardBeenSwiped:**

Description: Member swipes their member card in the card reader

Pre-conditions: Swipe Card panel displayed, Card reader enabled, state set to initialized, user is a valid member, member has pressed borrow button.  
Post-conditions: Scanning panel is displayed, Card reader is disabled, Scanner is enabled, Borrower details displayed, Existing loans displayed, and state set to scanning books.

Data required: memberID = 1

**TC\_4 – hasBookBeenScanned :**

Description: Member scans the book that they would like to borrow in the scanner.

Pre-conditions: Scanning panel displayed. Scanner is enabled, Card reader is disabled, user is a valid member, member has swiped card, and state set to scanning books.  
Post-conditions: Scanning Panel is displayed, Card reader is disabled, scan count is incremented by 1, scanned book details are displayed, new pending loan created, current pending loan list is displayed, state set to scanning books.  
Data required: bookID = 13

**TC\_5 – isBorrowingComplete:**

Description: Member has completed scanning the books they wish to borrow

Pre-conditions: Scanning Panel is displayed, Card reader is disabled, scan count is incremented by 1, scanned book details are displayed, new pending loan created, current pending loan list is displayed, state set to scanning books, member has scanned a book to borrow.  
Post-conditions: Confirm loans panel displayed, pending loans displayed, Card reader disabled, Scanner disabled, state set to confirming loans  
Data required: none

**TC\_6 – hasLoansBeenConfirmed:**

Description: The member has confirmed that they are happy with the books they have scanned and is ready to finish borrowing the books.

Pre-conditions: Confirm loans panel displayed, pending loans displayed, Card reader disabled, Scanner disabled, state set to confirming loans.  
Post-conditions: Main Menu is displayed, All pending loans are committed to the members account, loan slip is printed, Card reader disabled, Scanner disabled, state set to completed.  
Data required: none