**Op3 - Scan Book:**

Description:

To borrow a book, the member must scan the book id in-order for the book to be associated with a loan.

Intent: Add book to list of intended/pending loans

Pre-conditions:

BorrowBookCTL class exists

Scanner exists

BorrowBookCTL added as listener to scanner

BorrowBookCTL state = SCANNING\_BOOKS

Post-conditions:

**(book not found)**

BorrowBookUI is displayed

Scanning panel of BorrowBookUI displayed

Cancel button enabled

cardReader is disabled

scanner is enabled

book not found error message displayed

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

**(book not available)**

BorrowBookUI is displayed

Scanning panel of BorrowBookUI displayed

Cancel button enabled

cardReader is disabled

scanner is enabled

book not available error message displayed

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

**(book already scanned)**

BorrowBookUI is displayed

Scanning panel of BorrowBookUI displayed

Cancel button enabled

cardReader is disabled

scanner is enabled

book already scanned error message

displayed

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

**(scan count < loan limit)**

BorrowBookUI is displayed

Scanning panel of BorrowBookUI displayed

Cancel button enabled

cardReader is disabled

scanner is enabled

scanCount incremented by 1

scanned books details displayed

new (pending) loan created

(pending) loan added to pending loan list

Current pending loan list displayed

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

**(scan count == loan limit)**

BorrowBookUI is displayed

ConfirmingLoans panel of BorrowBookUI

displayed

final pending loan list displayed

Cancel button enabled

Reject button enabled

cardReader is disabled

scanner is disabled

scanCount incremented by 1

BorrowBookCTL state == ***CONFIRMING\_LOANS***

Data required:

bookScanned(barcode)