

Use Case: Borrow copy of book

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Updated by:		Created by:	Manuel Penalosa
Use case ID:	02		
Priority:	5	Frequency of use:	Every automatic checkout
Actors:	Book borrower (referred here for simplicity as the user)		
Description:	A user could loan a book from the library if (s)he is a library patron and satisfies the business rules of the library.		
Trigger:	The process starts when a user performs an automatic checkout of a book.		
Includes:	Check for reservation		
Preconditions:	The user finds the book (s)he wants to loan it.		
Postconditions:	The user leaves the library with the book checked out as long as the user is allowed to loan the book.		
Normal flow:	The user searches the book. (S)he finds the book and proceeds to checkout. (S)he scans the library card and book tag at an automatic checkout station. The station checks that a copy of the book has not been reserved, confirms the checkout, and prints a checkout receipt that includes important information about the checkout (e.g., when the book needs to be returned to the library). The user picks up the checkout receipt and leaves the library.		
Alternative flows:	<ol style="list-style-type: none"> 1. The user has an invalid or expired library card. The user cannot check out the book. The system tells the user to talk to a library clerk. 2. The user has exceeded the limit of books (s)he can check out. The checkout process is aborted. 3. The book has been reserved by another user. The checkout process is aborted. 4. The book is not recognized by the checkout station. The book tag may be unscannable. The checkout process is aborted. 		
Exceptions:	<ol style="list-style-type: none"> 1. The book is scanned but the book has a status other than available. The database may be corrupted and needs to be fixed. The checkout is aborted and the user needs to present the book to a library clerk. 2. The station has some operation issues that do not let users to do automatic checkouts. The user must do a manual checkout with a library clerk. 		
Business rules:	<ol style="list-style-type: none"> 1. A user cannot borrow more than 5 books each semester. 2. A user cannot borrow a book if there are pending fees. 3. A user can only borrow books with book status of "available" 4. A user cannot borrow a copy of a book that has been reserved and this is the last copy of the reserved book. 5. A user must have a valid unexpired library card in order to borrow a book. 6. A user cannot borrow books that are marked as "For use inside the library" 		
Special requirements:	<p>The checkout station should be working properly, with enough paper to print the checkout receipt.</p> <p>The book should have a valid tag that is scannable by the checkout station.</p> <p>The entire checkout process should take less than 15 seconds per book.</p>		
Assumptions:	The use case is important because a user doing research work would like to have the book at home to avoid going to the library every time (s)he needs the book.		
Unresolved issues:	None		
Comments:	The automatic checkout is a new equipment given to the library as a gift by the "Friends of the Library" club. It has been a great addition to the library.		