**BRLS**

**Use-Case: Borrow Book: End-goal**

# 1. Brief Description

When a patron wants to borrow a book,

they swipe their library card and scan their books

so that a loan may be created and added to their borrowing record

# 2. Trigger

The Patron finishes choosing books to borrow at the library and takes their books to the self-service station.

# 3. Actors

**3.1 Patron**

The patron is entitled to borrow books and performs the physical actions required by the use case.

**3.2 Librarian**

If a library Patron does not wish to perform the borrowing actions a librarian may assist them.

# 4. Stakeholders

## 4.1 Backwoods Regional Council

The council has an interest because self-service helps keeps library costs down, but the Council also wishes to make sure that elderly or disadvantaged groups are not hindered from access and using the library.

# 5. Related Use Cases

If a patron is prevented from borrowing by having exceeded the outstanding fine limit, then the ‘Pay Fine’ use case may be invoked to allow the patron to borrow the book.

# 6. Pre-conditions

**6.1 The library patron has a library card.**

**6.2 The book is available for borrowing.**

# 7. Post-conditions

## 7.1 Main success scenario (no restrictions, book successfully borrowed)

The book’s status is updated to ON\_LOAN

The loan is recorded in current loans.

The loan is recorded as part of the Patron’s current loans

## 7.2 Failure scenarios (borrowing restricted, book not successfully borrowed)

No books status is updated.

No loan is recorded in current loans.

No change is made to the Patron’s loan record.

## 7.3 Borrowing cancelled

No book’s status is updated.

No loan is recorded in current loans.

No change is made to the Patron’s loan record.

# 8. Normal Flow

The use case begins when the Patron takes their books to the self-service station

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actor |  | System |
| 1. | Patron/Librarian swipes Patron’s library card | 2. | System checks borrowing restrictions |
|  |  | 3. | System prompts to scan book |
| 4. | Patron/Librarian scans the books barcode | 5. | System adds book to current pending loan list |
|  |  | 6. | System displays book details |
| 7. | Patron/Librarian chooses to complete borrowing |  |  |
|  |  | 8. | System processes pending loan list |
|  |  | 9. | System displays borrowing success message |

The use case ends.

# 9. Alternate Flows

## Patron does not wish to use self service station

If at step 0 of the normal flow the Patron does not wish to use the self-service station, then the Patron takes their books to the front desk and the use case is enacted by the Librarian rather than the Patron.

## More than one book to borrow

If at step 6 of the normal flow the Patron has more books to borrow then

The normal flow is repeated from step 3

## Patron cancels borrowing

If at step 6 of the normal flow the Patron decides not to borrow any books after all then

|  |  |
| --- | --- |
| Actor | System |
|  | 7.1 System displays a confirm cancel prompt |
| 7.1 Patron chooses to confirm cancel | 7.2 System cancels the current borrowing list |

The use case ends.

## Borrowing restrictions are in force

If at step 2 of the normal flow it is found that borrowing restrictions are in force

|  |  |
| --- | --- |
| Actor | System |
|  | 3.1 System displays a borrowing restriction message |
| 3.2 Patron acknowledges message |  |

The use case ends.

# 10. Exception Flows

## 10.1 Barcode Unreadable

If at step 5 of the normal flow the books barcode is unreadable then

|  |  |
| --- | --- |
| Actor | System |
|  | 5.1 The system displays a ‘barcode unreadable’ error message |

The normal flow is resumed at step 7.

## 10.2 Library Card Unreadable

If at step 2 of the normal flow the Patron’s library card is unreadable then

|  |  |
| --- | --- |
| Actor | System |
|  | 6.1 The system displays a ‘library card unreadable’ error message |

The use case ends.

# 11. Key Scenarios

**11.1 Successfully borrow book**

**11.2 Borrowing restrictions in force**

# 12. Other Quality Requirements

**12.1 Ease of Use**

The self-service system should be intuitive and easy to use even for technically challenged users.

## 12.2 Persistence

If a book is successfully borrowed, a record of the loan must be recorded.