

Features of the project

Determining Book Availability

- One will be able to search for a book, given any combination of Book Id, title, and/or Author name. The result will display:
 - Book ID
 - Branch ID
 - Both *Total* number and *Available* number of book copies at each branch.

Book Loans

a) Checking Out Books

- Given the combination of Book ID, Branch ID and Card No. book can be checked out. The checkout date will be today's date. The Due Date will be 14 days after the checkout date.
 - Each BORROWER is permitted a maximum of 3 book loans. If a BORROWER already has 3 books, then the checkout will fail with an error message.
 - If the number of book loans for a given book at a branch already equals the total number of copies (i.e. there are no more book copies available at the library branch), then the checkout will fail with an error message.

b) Checking In Books

- Given any combination of Book ID, Card No, and/or any part of BORROWER name a book can be checked in. Once located, one can be selected of potentially multiple results to check in.

Borrowers

Creation of new borrower in the system is possible.

- All name and address attributes are required to create a new account.

Borrowers are allowed to possess exactly one library card. If a new borrower is attempted with the same first name, last name and address then the creation will fail with an error message.

Other features:

- 1) Check-in and Check-out history
- 2) Check complete book details
- 3) Update and check Borrower details