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Title: Library Inventory Management System (LIMS)

Project Summary: System for librarians to keep track of various media (books, DVDs, CDs, video games) in a group of libraries (e.g. CU has multiple libraries with different books). The idea is that the readers don't have access to this system, but the librarians handle all the books and checking out of books for the readers and can notify them if there are any overdue books. The part the readers do have access to would be self checkout type kiosks where they can look up information or checkout books.

Project Requirements:

Use Case ID|| Use Case Description

U-01	Librarians can add media
U-02	Librarians can remove media
U-03	Librarians can generate reports of overdue media
U-04	Librarians can notify readers of overdue media
U-05	Librarians can generate reports of checked out media
U-06	Librarians can checkout books for a reader
U-07	Librarians can add readers
U-08	Librarians can remove readers
U-09	Readers can view checked out media to see return dates
U-10	Readers can check for overdue fees
U-11	Readers can search for media for where it is located in a library
U-12	Readers can wait list media they are interested in checking out, if not available
U-13	Readers can self checkout media

Library Inventory Management System (LIMS)

- 1) Scan Librarian card
- 2) Scan Reader card

Librarians Pages

Library Inventory Management System (LIMS) Librarian main menu

- 1) Add Media
- 2) Remove Media
- 3) Add Reader
- 4) Remove Reader
- 5) Generate Checkout Report
- 6) Generate Fees Report
- 7) Checkout Media for Reader

E)xit

Library Inventory Management System (LIMS) Add media

Which Library: (Dropdown of libraries)

Select Type: ☐ Book ☐ DVD ☐ CD ☐ Video Game

Title:

How many?

(Based on Type) Author/Year/Artist/Console:

(Based on Type) ISBN/Genre/Year/Developer:

(Based on Type) Publisher/Genre:

A)dd

C)ancel

(area for errors/success messages)

Library Inventory Management System (LIMS)

Remove media

Title:

Which Library: (dropdown of libraries)

R)emove

C)ancel

(area for errors/success messages)
(if an item is checked out, cant remove)
(if there is one available, remove 1)

Library Inventory Management System (LIMS)

Add reader

Name:

Email:

A)dd

C)ancel

(area for errors/success messages,
show id of new reader)

Library Inventory Management System (LIMS)

Remove reader by id

Name:

Search if ID unknown

ID:

R)emove

C)ancel

(area for errors/success messages,
show id of removed reader)

Library Inventory Management System (LIMS) Checkout Report

Library	Title (type)	Reader	Due Date
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(Show list of checked out items with option to print)

M)ain menu

P)rint

Library Inventory Management System (LIMS) Fees Report

Reader	Amount
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(Show list of readers and their fees, with total "losses")
(notify readers sends an email)

M)ain menu

N)otify Readers

P)rint

Library Inventory Management System (LIMS) Checkout media for reader

First: Scan Reader
Then: Scan media

OR

Library: (Dropdown of libraries)

Title:

Type: (Dropdown of types)

(Show reader name scanned, then show media scanned with notification
that media was checked out to reader)

M)ain menu

Library Inventory Management System (LIMS) Reader main menu

- 1) Checkout Media
- 2) Check for overdue fees
- 3) View Checked out media
- 4) Search/Waitlist Item

E)xit

Library Inventory Management System (LIMS) Self Checkout media

First: Scan Reader
Then: Scan media

(Show reader name scanned, then show media scanned with notification that media was checked out to reader)

M)ain menu

Library Inventory Management System (LIMS) Checkout Report for reader

Library	Title (type)	Due Date
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(Show list of checked out items)

M)ain menu

Library Inventory Management System (LIMS)

Fees Report for reader

(Show fees owed)

M)ain menu

Library Inventory Management System (LIMS)

Search/Waitlist media

Library: (Dropdown of libraries)

Title: [Find]

(Search box to select item to view, searches all libraries based on title)

W)aitlist C)ancel

(area for errors/success messages)

Class Diagram:



