University of Maryland Global Campus

CMSC 495

Professor Kayed

Group 1

Gonghweh Koo

Scott Richardson

Cynthia Reynolds

Jonathan Dreksler

November 11, 2020

User’s Guide

Library Management System

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Version History

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Description | Team Member |
| 7-Nov | 0.1 | Initial draft | Cynthia Reynolds |

# ****Overview****

## Background

The Library Management System (LMS) is an online application for assisting library users in accessing the assets in the library. The system provides a basic set of features to register new users, update personal information, search for library assets (e.g., books, DVDs), request and reserve library assets, and manage check-in and checkout processes.

# Getting Started

The LMS was developed using the Java programming language. Minimum system requirements to use the LMS are described below.

## Software

Windows 7 or later, 64-bit operating system.

## Hardware

Personal computer (PC) with at least 2 GB of RAM and Internet connectivity.

Input: Keyboard, mouse

Output: Monitor

## Installation and Setup

No installation is required since the LMS is distributed as an executable Jar file.

# Using the LMS

## Register a library patron

Prior to becoming a library patron, a non-patron will be prompted to create a new user account. The following patron information is required to create an account:

* Name (first and last)
* Address
* Phone number
* Email
* Username

Upon creation of an account, a library card ID will be provided.

## Login

Launch the LMS application. A prompt will be displayed to enter username or library card ID, and password.

Type username or library card ID, and password.

Click **ENTER**. Upon successful login, the home page will be displayed.

## View/Modify patron registration information

* + 1. **View patron registration information**

Log in to LMS.

From the main menu, select the **My Account** link.

The user will be directed to the View screen where the following information will be displayed:

* Name
* Address
* Phone number
* Email
* Username
* Library card ID

**NOTE:** The password will not be displayed.

* + 1. **Modify patron registration information**

Log in to LMS.

From the main menu, select the **My Account** link. The user will be taken to the Edit screen.

Edit desired field(s). Options include name, address, phone number, and email.

Click **SUBMIT** to save changes or click **CANCEL** to undo the changes you made. Upon clicking **SUBMIT**, the following message will be displayed: “Your personal information has been updated”.

## Search for a book

After selecting the discipline, the user can

search for the desired book. The software returns the

reference number assigned to that book. The user can then

send an enquiry containing the reference number about the

availability of the book to the central library station by using

SMS service of GSM network. The library station responds

by sending back the issuance and return dates of the

particular book and adds the user to a queue for informing

him about the book status after the return date.

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particular book and adds the user to a queue for informing

him about the book status after the return date.

From the main menu, select **SEARCH**. Books may be searched by title or author.

Type search criteria (e.g., book title, author) into the search box.

Click **ENTER**. Search results will be displayed to include the number of copies available for checkout, author’s name, publication date, and ISBN

## Checkout a book

From the Search results page (see section 3.4), click the radio button to select the desired book title.

Click **CHECKOUT**. The user will be redirected to a page displaying the following information regarding the book:

* Availability
* Title
* Checkout date
* Expected return date

## Reserve a book

From the Search results page (see section 3.4), select **Reserve Book**.

Select the checkbox next to the book to be reserved.

Press **SUBMIT**.

## Request extension to book due date

From the main menu, select the **Request Extension**.

Select the checkbox next to the book to be extended.

Click **SUBMIT**.

**NOTE:** There is a one-time extension for books currently checked out. After the one-time extension, books must be returned to the LMS.

## Check late fees

From the main menu, select **FEES**. Any late fees due to overdue books will be displayed on the page along with the associated book(s).

# Glossary

* GB – Gigabyte
* GUI – Graphical User Interface
* ISBN – International Standard Book Number
* LMS – Library management system
* PC – Personal Computer
* RAM – Random Access Memory