1. Introduction

The Library Management System is a software application designed to streamline library operations by providing functionalities for managing books, user accounts and transactions. This user manual serves as a guide for using the system effectively.

1. Getting Started:

Compiler: C++ compiler (e.g. g++, c++, cpp)

1. Logging in:

To access the functionalities of the Library Management System, user need to log in with valid credentials(Check the user\_database.csv) they have stored the username and password for the logging in the application.

1. Main Menu:

The main menu provides access to various functionalities of the Library Management System. Each option performs a specific task related to book management. Follow the instructions below utilize each functionality:

* Add a Book:
  + Select this option to add a new book to the library database
  + Enter the required details such as title, author, genre and barcode when prompted.
  + Upon successful addition, the book will be recorded in the database.
* Find a book by Title:
  + Choose this option to search for a book by its title.
  + Enter the title of the book you wish to find.
  + The system will display detailed information about the matching books.
* Check Book details by Barcode:
  + Use this option to view details of a book by its barcode.
  + Enter the barcode of the book when prompted.
  + The system will display detailed information about the specified book.
* Reserve a book:
  + Select this option to reserve a book from the library.
  + Enter the barcode of the book you wish to reserve.
  + If the book is available, it will be reserved for you and the reservation data will be recorded.
  + And also after reserving book can’t be check out from the system. As it’s reserve for the someone.
* Unreserve a Book:
  + Choose this option to cancel your reservation for a book.
  + Enter the barcode of the book you wish to unreserve.
  + And that book can someone check out whoever is reserved.
* Update Availability Status:
  + Use this option to update the availability status of a book.
  + Enter the barcode of the book you wish to update.j
  + Specific the new availability status (available or unavailable)
  + The system will update the availability status accordingly.
* Check out a book:
  + Select this option to check out a book from the library.
  + Enter the barcode of the book you wish to check out.
  + If the book is available, it will be checked out to you, and the check-out date will be recorded.
* Check in a Book:
  + Choose this option to check in a book that you have previously checked out.
  + Enter the barcode of the book you wish to check-in.
  + If the book is currently checked out to you, it will be checked in and the check-in date will be recorded.
* Exit
  + Select this option to exit the Library Management System.
  + All unsaved changes will be discarded upon exiting.