

# Library Management System User Documentation

## Introduction

*Greetings to the Library Management System! This platform is crafted to simplify the administration of books, authors, patrons, and borrowing transactions within a library environment. Whether you're fulfilling the role of a librarian or a patron, this guide will lead you through the system's features and capabilities.*

## Getting Started

**To access the Library Management System, follow these steps:**

1. Open a terminal or command prompt window.
2. Navigate to the directory where the system's source code is located.
3. Compile the source code using the Java compiler. For example:  
`javac Main.java`
4. Run the compiled Java program. For example:  
`java Main`
5. The Library Management System will be executed in the terminal or command prompt, providing access to its functionalities and features.

## Searching For Books

- **Title Search:** Utilize the search functionality to find books by their titles. Input the desired title, and the system will present all relevant matches.

- **Author Search:** Similarly, locate books by author name. Input the author's name, and the system will generate a list of books authored by them.

- **ISBN Search:** If you possess the ISBN (International Standard Book Number) of a book, employ it to conduct a direct search.

## Borrowing And Returning Books

- **Book Borrowing:** Library patrons can borrow books by selecting their preferred titles and providing their details. Upon borrowing, the book's status switches to "Checked Out," and the available copies decrease.

- **Book Return:** Upon returning a book, patrons can specify the title they're returning. The system updates the book's status to "Available" and increases the number of available copies.

## Managing Patrons

- **Patron Addition:** Librarians have the ability to include new patrons into the system by supplying their name, address, and phone number.
- **Patron Removal:** In cases where a patron becomes inactive or requires removal from the system, librarians can proceed to delete their profile.

## Managing Books and Authors

- **Book Addition:** Librarians possess the capability to introduce new books into the library by furnishing details such as title, author, ISBN, publisher, and quantity of copies.
- **Book Removal:** In instances where a book becomes unavailable or necessitates removal from the library's assortment, librarians have the authority to erase it from the system.
- **Author Addition:** Librarians can augment the system by introducing new authors, supplying their name and date of birth.
- **Author Removal:** Likewise, if there arises a need to eliminate an author's details from the system, librarians are empowered to do so.

## TroubleShooting

If you encounter any issues or have questions about the Library Management System, please refer to the following resources:

- **User Manual:** Consult the user manual provided with the system for detailed instructions on using each feature.
- **Contact Support:** If you need further assistance, please contact our support team for personalized assistance.

## Conclusion

*The Library Management System serves as an effective instrument for both librarians and patrons, providing extensive capabilities for efficiently overseeing library resources. With its intuitive features and accessible interface, users can effortlessly conduct book searches, borrow and return items, handle patron management, and organize the library's inventory. Embrace the system and indulge in a delightful reading experience!*