

# LIBRARY MANAGEMENT SYSTEM USER DOCUMENTATION

## INTRODUCTION

Welcome to the Library Management System! This system is designed to facilitate the management of books, authors, patrons, and borrowing activities in a library setting. Whether you're a librarian or a patron, this documentation will guide you through the features and functionalities of the system.

## 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

- **Search by Title:** You can search for books by their title using the search functionality. Simply enter the title of the book you're looking for, and the system will display all matching results.
- **Search by Author:** Similarly, you can search for books by their author's name. Enter the author's name, and the system will list all books authored by the specified author.
- **Search by ISBN:** If you have the ISBN (International Standard Book Number) of a book, you can use it to search for the book directly.

## BORROWING AND RETURNING BOOKS

- **Borrowing Books:** Patrons can borrow books from the library by selecting the desired book and providing their information. Once borrowed, the book's status will be updated to "Checked Out," and the number of available copies will be decremented.
- **Returning Books:** When a patron returns a book, they can indicate the book they are returning. The system will update the book's status to "Available" and increment the number of available copies.

## MANAGING PATRONS

- **Adding Patrons:** Librarians can add new patrons to the system by providing their name, address, and phone number.
- **Removing Patrons:** If a patron is no longer active or needs to be removed from the system, librarians can delete their profile.

## MANAGING BOOKS AND AUTHORS

- **Adding Books:** Librarians can add new books to the library by providing details such as title, author, ISBN, publisher, and number of copies.
- **Removing Books:** If a book is no longer available or needs to be removed from the library's collection, librarians can delete it from the system.
- **Adding Authors:** Librarians can add new authors to the system by providing their name and birthdate.
- **Removing Authors:** Similarly, if an author's information needs to be removed from the system, librarians can delete it.

## 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 is a powerful tool for librarians and patrons alike, offering comprehensive features for managing library resources efficiently. With its user-friendly interface and intuitive functionalities, you can easily search for books, borrow and return items, manage patrons, and maintain your library's collection. Enjoy using the system and happy reading!