

# BiblioTech USER MANUAL

## Library Management System

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## GENERAL INFORMATION OF SYSTEM

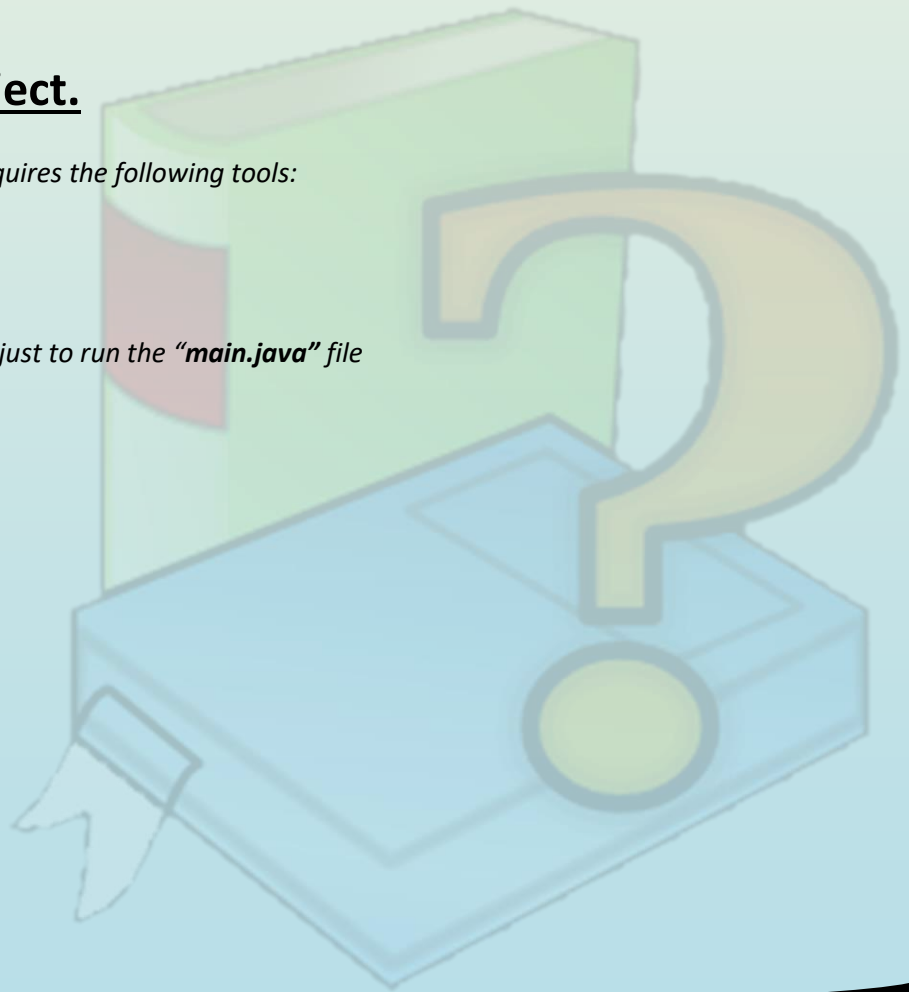
The project at hand is an open-source library management system developed in Java SE, specifically designed for university or school libraries. The system communicates with a MySQL database and aims to assist librarians in efficiently managing user subscriptions and book borrowings. It provides a range of functionalities, including data backups, subscriber registration, book borrowing, and return transactions. Additionally, the system facilitates search queries to check the availability of books and identify the borrowers in case of borrowed items. The architecture of the system revolves around a server hosting the application written in Java, which interacts with the MySQL database for data storage and retrieval. The graphical user interfaces (GUIs) of the application are implemented as objects inheriting from the JFrame class in the Swing library, leveraging Java's object-oriented programming capabilities. Prior to book borrowing transactions using the system, all library books intended for lending must be registered in the database, along with the details of the subscribers. The graphical interface for registering books allows librarians to assign unique identifiers and provide the book titles through a simple form. This interface also facilitates displaying the entire collection of books available in the library.

### Steps to run the project.

*Working with the current project requires the following tools:*

- *Apache NetBeans*
- *XAMPP*

*In order to run the project you need just to run the “**main.java**” file*



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## Examples

Before presenting the table outlining the interfaces of the application and their corresponding descriptions, it is essential to provide an overview of the user-friendly graphical interfaces that have been developed. These interfaces not only streamline the library management processes but also enhance the overall user experience for librarians, ensuring efficient access to the system's functionalities.

Description

The subscriber interface empowers librarians to effortlessly add new subscribers, efficiently managing their names and assigning unique subscriber numbers for streamlined library operations.

Interface

Add Subscribers

Add Subscribers

Identifier

Full Name

INSERT

DELETE

MODIFICATION

REQUESTS

BORROW

REFRESH

BOOKS

IDENTIFIER	FULLNAME
1	MOHAMED HABIB
2	LASSAAD JARRAY
3	OUMAYMA BEN FADHEL
4	ISLEM BENNOUR

Borrowers List

Borrowed Books

SEARCH

Book ID	Book Title	Borrower

Book ID	Book Title	Borrower Name	Borrower ID
4	Harry Potter and The Half	ISLEM BENNOUR	4

Available Books

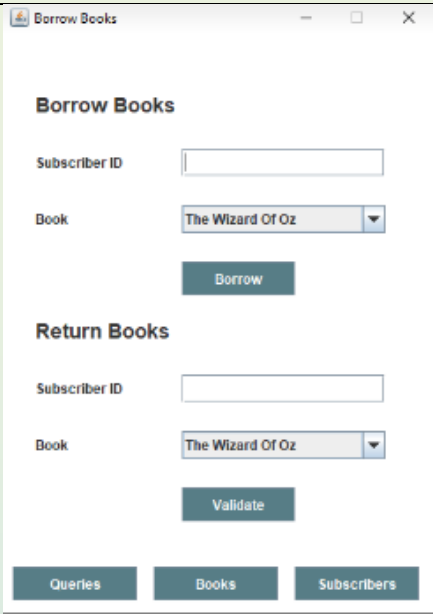
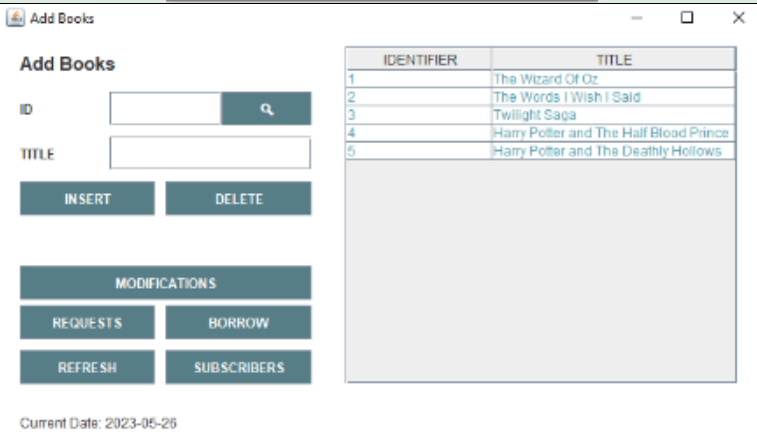
Verify

ID	Title
1	The Wizard Of Oz
2	The Words I Wish I Said
3	Twilight Saga
5	Harry Potter and The Deathly Hollows

Subscriber

Borrowed

Books

Description	Interface												
<p>The borrow books and return books interfaces in the library management system provide essential functionalities for librarians to facilitate the lending and returning of books to library users.</p>													
<p>The modify and delete book interface in the library management system allows librarians to make changes to book information or remove books from the library's collection.</p>	 <table border="1" data-bbox="992 961 1382 1297"> <thead> <tr> <th>IDENTIFIER</th><th>TITLE</th></tr> </thead> <tbody> <tr> <td>1</td><td>The Wizard Of Oz</td></tr> <tr> <td>2</td><td>The Words I Wish I Said</td></tr> <tr> <td>3</td><td>Twilight Saga</td></tr> <tr> <td>4</td><td>Harry Potter and The Half Blood Prince</td></tr> <tr> <td>5</td><td>Harry Potter and The Deathly Hollows</td></tr> </tbody> </table> <p>Current Date: 2023-05-26</p>	IDENTIFIER	TITLE	1	The Wizard Of Oz	2	The Words I Wish I Said	3	Twilight Saga	4	Harry Potter and The Half Blood Prince	5	Harry Potter and The Deathly Hollows
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