



# Smart Library Management System

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## Overview

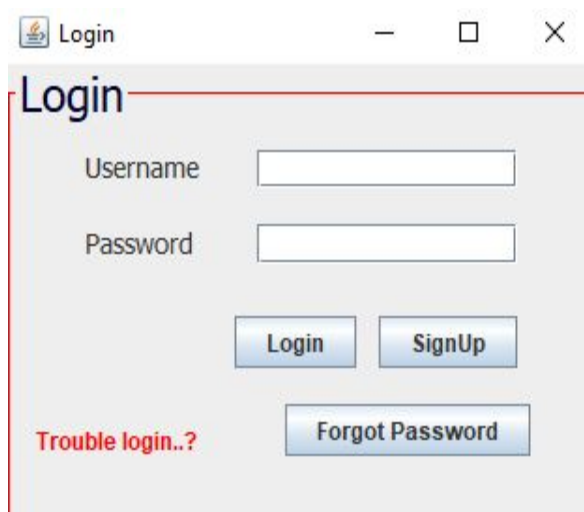
The Smart Library Management System exclusively uses the JAVA & PostgreSQL to come up with the product. It has the following functionality:

- Login/Signup System for the librarian
- A librarian can add a new book with a unique id
- A librarian can add a new student with a unique id
- A librarian can issue/return a book
- A librarian can keep a track record of issued & returned books

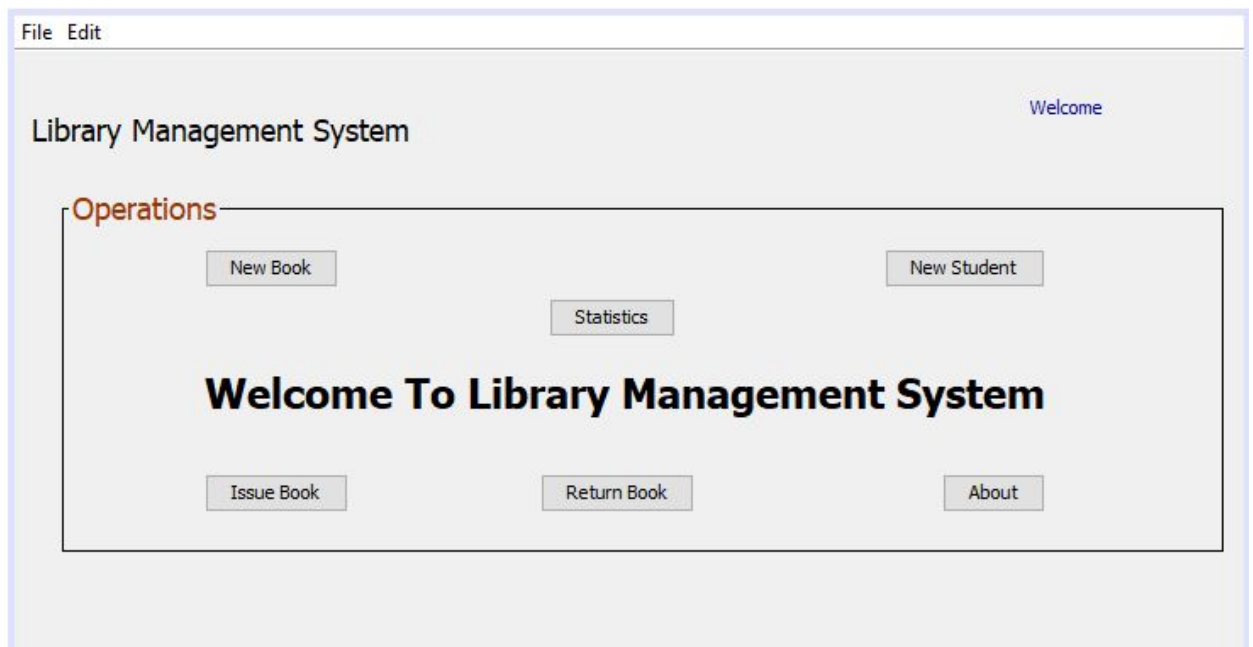
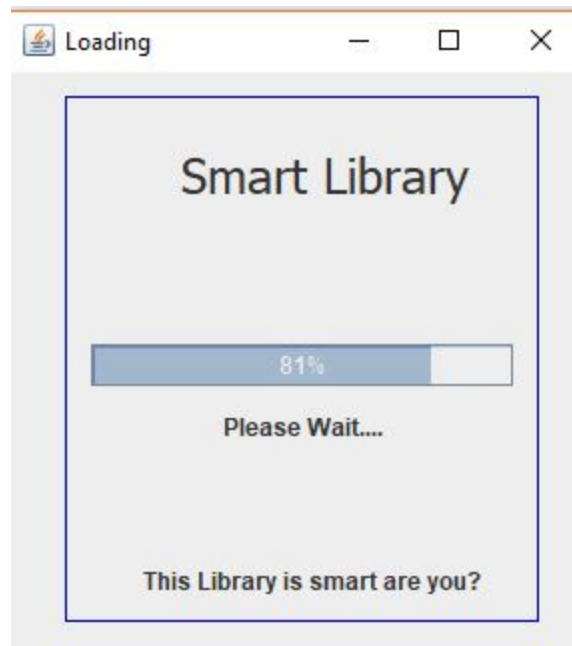
## Goals

1. To reduce the paperwork.
2. Use of strong database tool eases the work.

## Specifications



The image shows a Java Swing window titled "Login". The window has a standard title bar with a minimize button, a maximize button, and a close button. The main content area has a light gray background. At the top left, the word "Login" is written in a large, bold, blue font. Below it, there are two text input fields: "Username" and "Password". To the right of each label is a white rectangular input box. Below the input fields, there are two blue buttons with white text: "Login" and "SignUp". At the bottom left, there is a red text link "Trouble login..?". To the right of this link is a blue button with white text "Forgot Password".



New Book

### New Book

BookId

Name

Edition  ▼

Publisher

Price

Pages

New User

Student\_Id

Name

Branch

Semester

The 'Issue' window contains two main sections: 'Book Detail' and 'Student Details'. The 'Book Detail' section has input fields for BookId, Name, Edition, Publisher, Price, and pages, with a 'Search' button next to the BookId field. The 'Student Details' section has input fields for Student\_Id, Name, Branch, Semester, and DOI, with a 'Search' button next to the Student\_Id field. At the bottom right of the window are 'Issue' and 'Back' buttons.

The 'Statistics' window displays two tables. The 'Issue Book' table has columns: bookid, names, edition, publisher, price, and pages. The 'Return Book' table has columns: studentid, name, branch, and sem, and contains two rows of data.

bookid	names	edition	publisher	price	pages
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studentid	name	branch	sem
861	Rishabh Raj	ECE	6
683	Rajat Singh	ECE	6

- Once a book is returned, then its entry from the issued book table is transferred into the returned book table.