

Library Management System

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Overview

This project aims to illustrate the basic concepts of SQL and their usage in our day to day life. The following project is a Library Management System which uses SQL concepts and has an administrator which can add/view/delete a librarian and a librarian can add/view/issue/return books.

Goals

To build an useful application using the basic concepts of MySQL

Specifications

Users of the System

- 1. Administrator
- 2. Librarian

Functional Requirements

- Administrator
 - 1. Can add/view/delete librarian.
 - 2. Can logout of the server.
- Librarian
 - 1. Can add/view books.
 - 2. Can issue books.
 - 3. View issued books.
 - 4. Return books.
 - 5. Can logout of the server.

Tools to be used

- 1. Use any IDE to develop the project. It may be Eclipse / Myeclipse / Netbeans etc.
- 2. MySQL for the database.

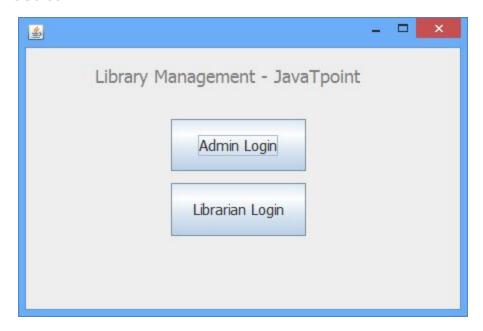
Front End and Back End

Front End: Java Swing
Back End: MySQL

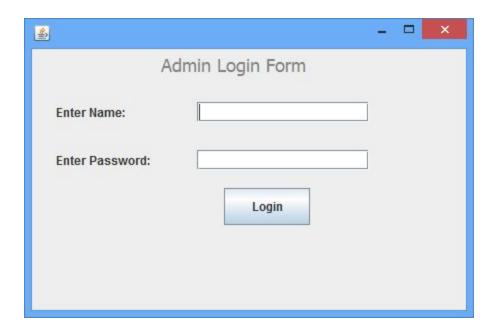
How project works?

The following screenshots will illustrate the working of the project systematically.

• Home Screen

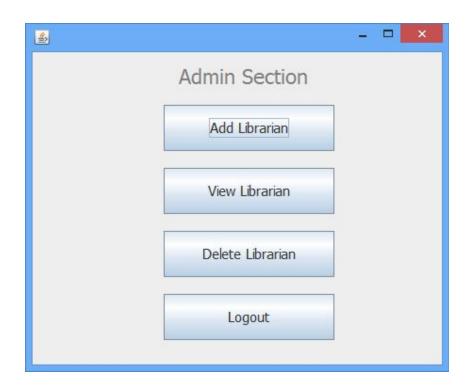


• Admin Login form



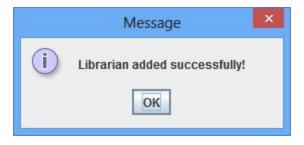
(Write name and password: It must be **admin** for name and **admin123** for password)

• Admin Section

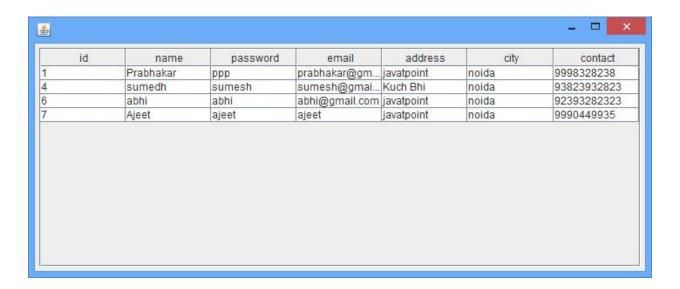


• Adding a Librarian

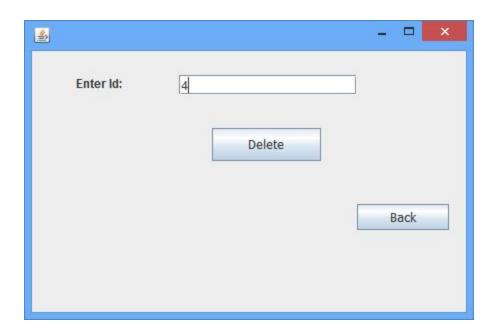


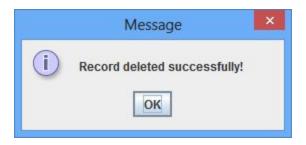


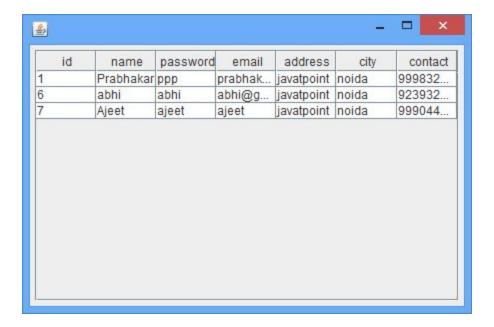
• Viewing the records of librarian



Deleting a Librarian

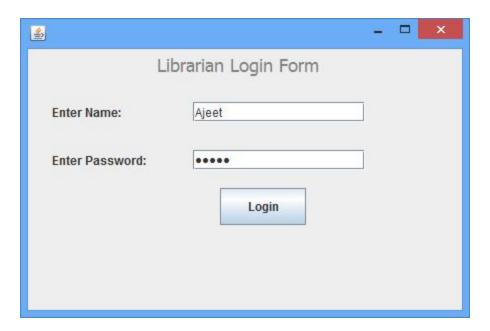






(Table without the deleted record)

• Librarian Login



• Librarian Section

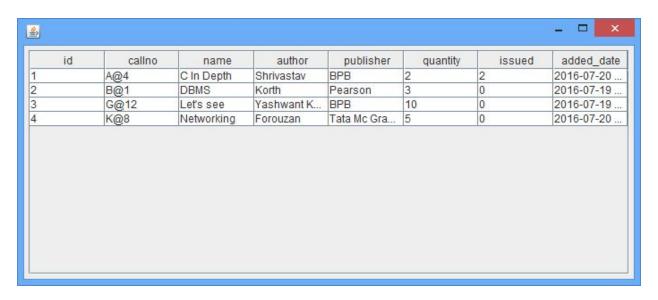


• Adding books

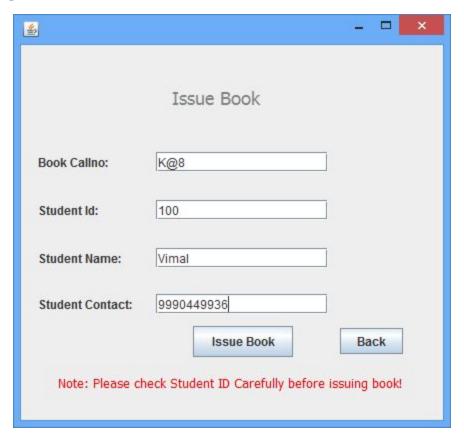


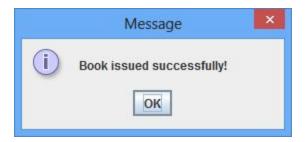


Viewing Books

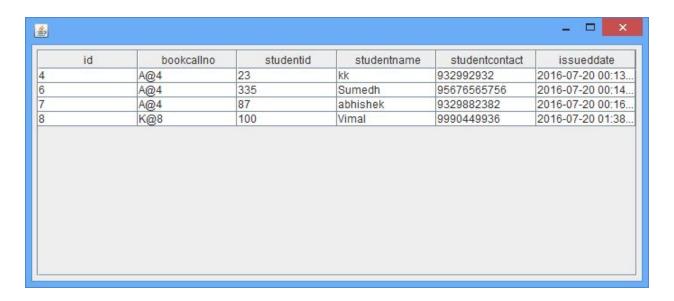


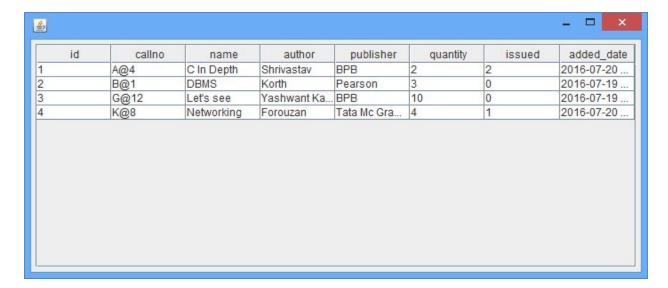
Issuing Books





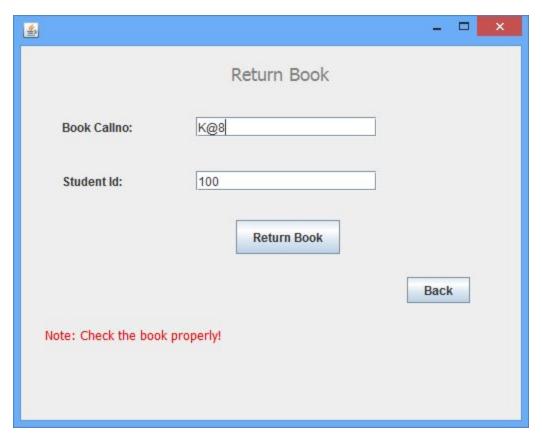
View Issued Books



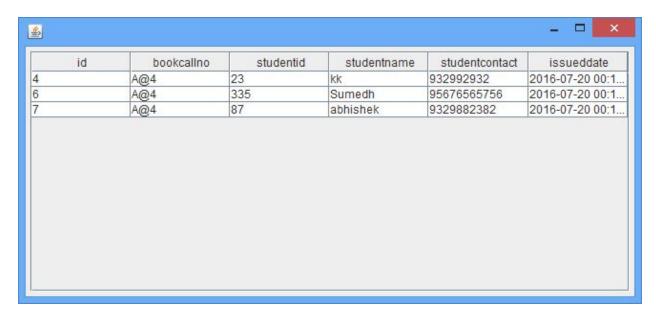


(Click on the View Books and see quantity is decremented and issued is incremented)

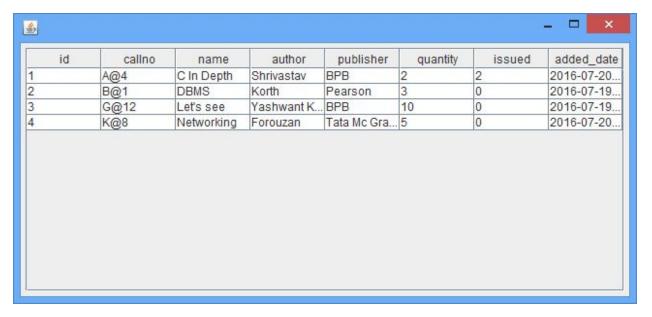
• Returning a book







(Again click on the view issued book button, record is deleted)



(Click on the View Books button. You can see that quantity is incremented and issued is decremented)

How to run this project?

- 1. Import SQL files to create tables in MySQL.
- 2. Import the project on the Java IDE and run it.