**Book Issue and Return System**

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**Problem Statement:**

The online book issue and return system project is to implement a computer-based online book issuing system which helps the user to issue and return the books available in a Library.

The Librarian (administrator) is the only person that has the privilege to add the books to the existing Library.

User has a login/register portal where it can login/register itself. The password should be at least 8 characters long. If in case the user forgets the password, there is a facility to reset the password with the help of Security pin the user has entered during the registration process.

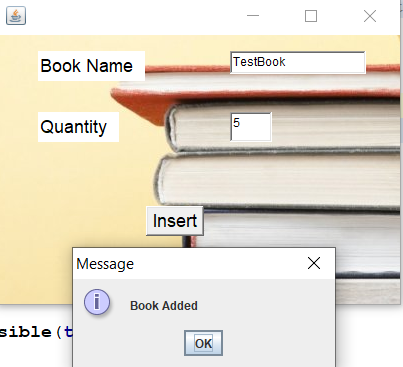
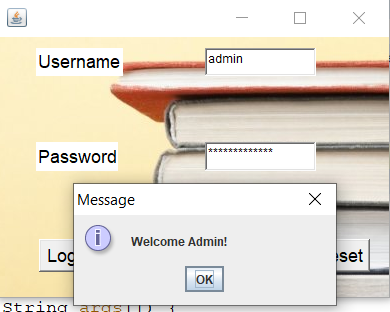
After logging into the system, the user is redirected to a Home Page, where the options of Issuing and Returning a book has been provided. Based on the option selected, the process will be further carried on.

While issuing a book, the user is displayed the books available as well as unavailable in the Library. Out of the available books, the user can select one of them. The book is then issued and a record is created in the Database.

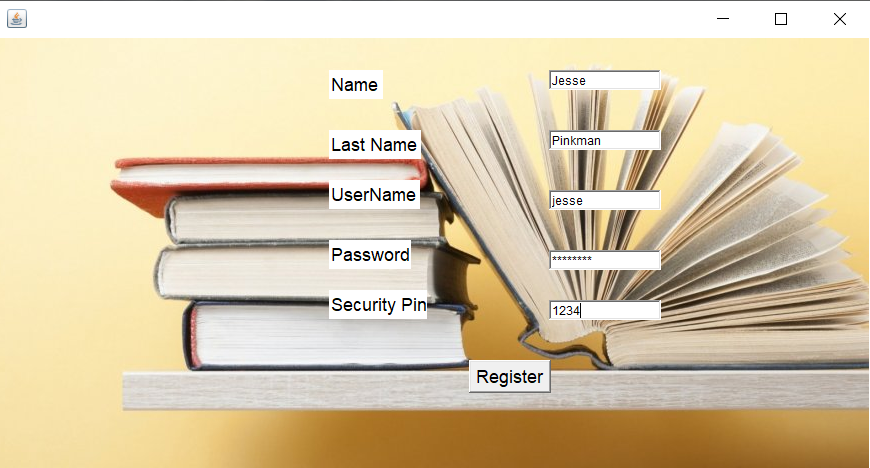
While returning a book, the user is shown only those which he has been issued and not returned to the Library. Returning the book will add the stock up in the Database.

**Screenshots**

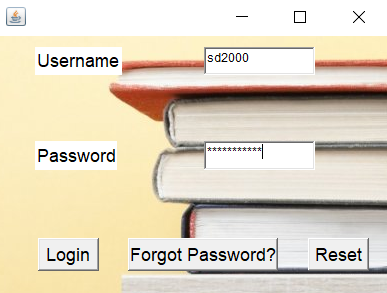
Add New Book Admin Login

** **

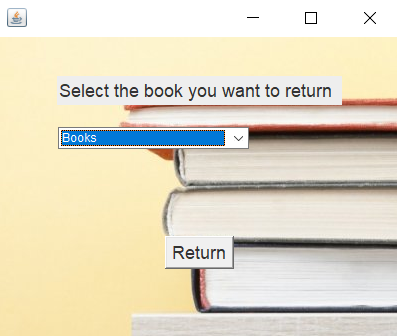
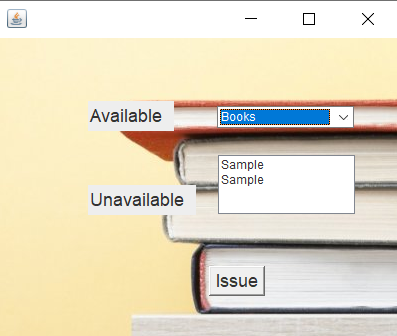
Register



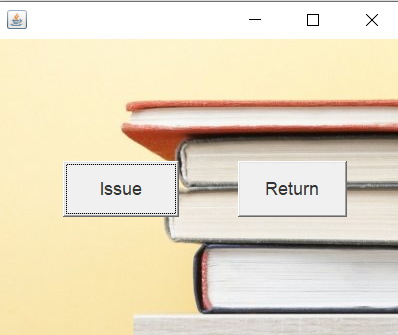
Login

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Issue Return

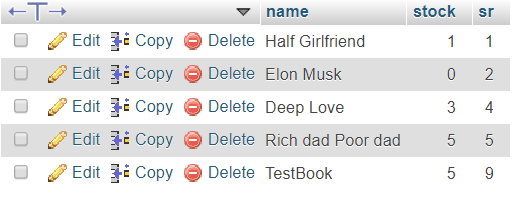
** **

Home

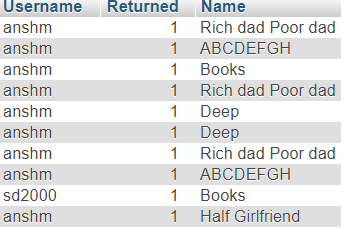
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**Database Tables:**

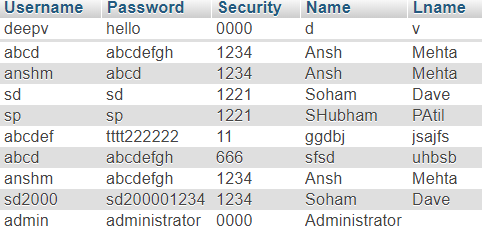
Books



Record



Username



**Program code to implement an event and JDBC Connection:**

private void loginActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

String user\_name = user\_name\_data.getText();

String password = password\_data.getText();

if(password.length() < 8) {

JOptionPane.showMessageDialog(null, "Password should be atleast than 8 characters.");

}

else {

try{

Class.forName("com.mysql.jdbc.Driver");

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/login", "root", "");

String query = "SELECT \* FROM `username` WHERE `Username` =? AND `Password` =?";

Statement stmt = con.createStatement();

PreparedStatement ps = con.prepareStatement(query);

ps.setString(1, user\_name);

ps.setString(2, password);

ResultSet rs = ps.executeQuery();

if(user\_name.equals("admin") && password.equals("administrator")) {

JOptionPane.showMessageDialog(null,"Welcome Admin!");

Add a = new Add();

setVisible(false);

a.setVisible(true);

}

else if(rs.next())

{

JOptionPane.showMessageDialog(null,"Login Successfull");

setVisible(false);

Home i = new Home(user\_name,rs.getString("Name"));

i.setVisible(true);

}

Else {

JOptionPane.showMessageDialog(null,"Login Unsuccessfull");

user\_name\_data.setText("");

password\_data.setText("");

}

}

catch(Exception e){ }

}

}