

USER GUIDE  
For  
Library Client Server Systems

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## Contents

Installation of Program.....	3
Library Panel .....	4
Administrator.....	5
Insert a book.....	6
Delete a book.....	8
Insert a User.....	10
Delete a user.....	12
User .....	14
Borrow Book .....	15
Return Book .....	17

## Installation of Program

To run the system first you need to execute the 'CreateDataBase'. And you also must change the username and password on database connection. It creates the schema; tables and all the data are inserted to the table.

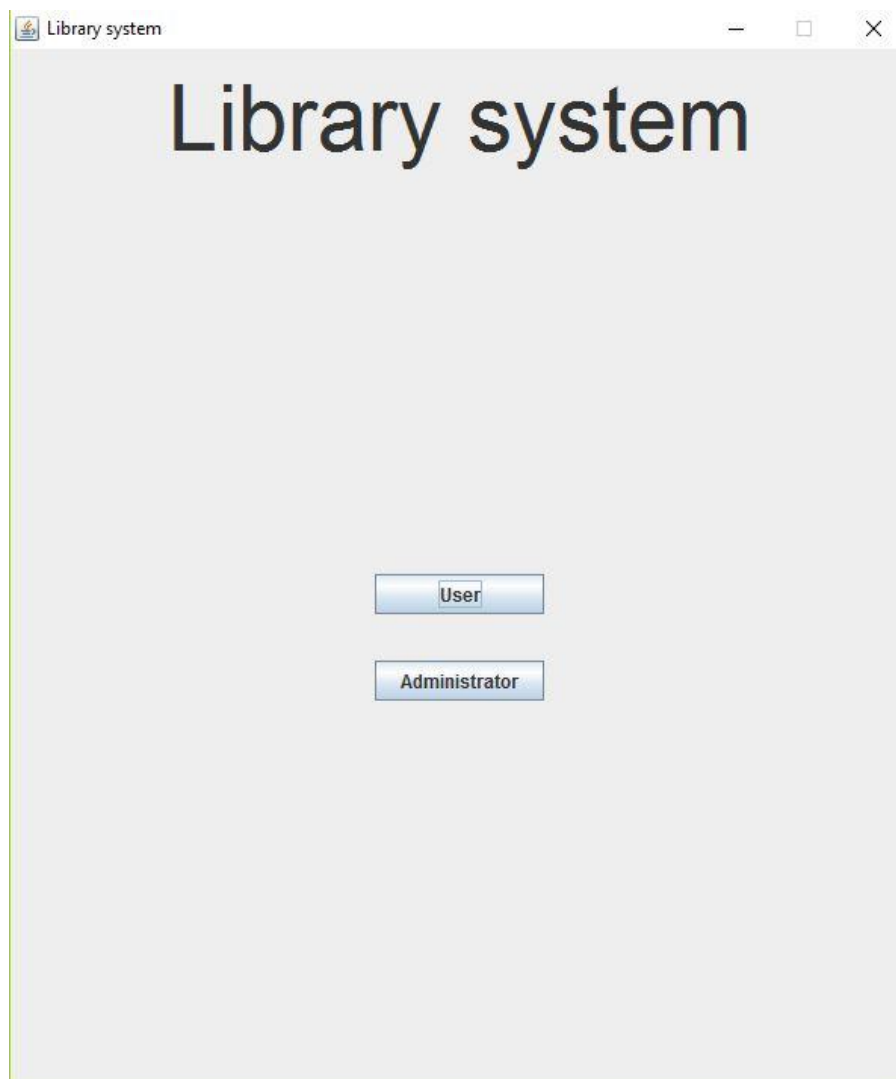
To start the system first we need to run the 'MainServer' class which startup the server. Then we can run the client 'MainClient' class.

## Library Panel

This is the main page of our library system. In this page you can choose the type of the operator. The user is for the reader and the administrator is for the librarian.


If we want to operate the system as Librarian the “Administrator” button should be chosen. When we are in the Administrator panel then we can insert, delete book and see all the book. We can also insert, delete and see all the customers.

If we want to operate the system as Customer the “User” button should be chosen. When we choose to operate as user, then we can borrow book, return book and see the list of books, customer and borrowed books.



## Administrator

This page more focuses on the function for the administrator, on this page you can insert a book, delete a book, insert a user, delete a user and see the list of customer and books.

 Library system—□×

Booklist

Userlist

Book Name

Author

Book ID

Number of Copy

Publish Date

(DD:MM:YY)

Insert book

User Name

Student ID

CPR No

Validate

(DD:MM:YY)

Insert User

Book\_ID

Delete Book

Delete No

Delete User

Back

### Insert a book

To insert books, complete the left field of the desired data, after you finished the field with correct format (please notice the format of Publish Date), Click on “INSERT BOOK” button. After you click on “insert book” Button, the system will show a sentence “Applied Java is now registered in the DataBase” in the text area on the top. It means that a new book has now been inserted in our library system.

Library system

Applied Java is now registered in the DataBase.

**Booklist**

Book Name: Applied Java

Author: Hans

Book ID: 7

Number of Copy: 8

Publish Date: 1 9 2001 (DD:MM:YY)

**Insert book**

**Userlist**

User Name:

Student ID:

CPR No:

Validate: (DD:MM:YY)

**Insert User**

Book\_ID:

**Delete Book**

Delete No:

**Delete User**

**Back**

You can also find the new book which you have inserted in the database.

<input type="checkbox"/>	id integer	book_name character varying (97)	author character varying (90)	publish_date character varying (50)	numberin... integer
<input type="checkbox"/>	1	palpasa cafe	narayan wagle	1/1/2001	5
<input type="checkbox"/>	2	java	mark	1/1/2000	10
<input type="checkbox"/>	3	database	jens	6/5/2003	10
<input type="checkbox"/>	4	karnali blues	buddhi sagar	1/4/2013	5
<input type="checkbox"/>	5	applied java	hans	6/8/2017	6
<input type="checkbox"/>	6	awesome	hahaha	11/1/2009	2
<input type="checkbox"/>	10	putali	nights	5/12/2007	5
<input type="checkbox"/>	11	bhesa	nights	9/12/2009	6
<input type="checkbox"/>	7	Applied Java	Hans	1/9/2009	6

### Delete a book

If you want to delete a book in our system, you need to input the book ID. The ID of the book is the primary key and must be unique. After you enter the book ID, click on the “DELETE BOOK” button. Then, the system will print a sentence “ID :7 has been deleted from the system” in the text area on the top. It means the chosen book having id 7 has been deleted.

The screenshot shows a window titled "Library system" with standard Windows window controls (minimize, maximize, close). At the top, a text area displays the message "ID: 7 has been deleted from the system". Below this, the interface is divided into two main sections: "Booklist" on the left and "Userlist" on the right. The "Booklist" section contains input fields for "Book Name", "Author", "Book ID", "Number of Copy", and "Publish Date" (with a date format "(DD:MM:YY)"). Below these fields is an "Insert book" button. The "Userlist" section contains input fields for "User Name", "Student ID", "CPR No", and "Validate" (with a date format "(DD:MM:YY)"). Below these fields is an "Insert User" button. At the bottom of the window, there are two rows of controls. The first row includes a "Book\_ID" label followed by a text box containing the number "7", a "Delete Book" button, a "Delete No" label followed by an empty text box, and a "Delete User" button. The second row contains a single "Back" button centered at the bottom.

Booklist		Userlist	
Book Name	<input type="text"/>	User Name	<input type="text"/>
Author	<input type="text"/>	Student ID	<input type="text"/>
Book ID	<input type="text"/>	CPR No	<input type="text"/>
Number of Copy	<input type="text"/>	Validate	<input type="text"/> (DD:MM:YY)
Publish Date	<input type="text"/> (DD:MM:YY)		
<input type="button" value="Insert book"/>		<input type="button" value="Insert User"/>	
Book_ID	<input type="text" value="7"/>	Delete No	<input type="text"/>
<input type="button" value="Delete Book"/>		<input type="button" value="Delete User"/>	
<input type="button" value="Back"/>			



You can also find the chosen book has been deleted in database.

<input type="checkbox"/>	id integer	book_name character varying (97)	author character varying (90)	publish_date character varying (50)	numberin... integer
<input type="checkbox"/>	1	palpasa cafe	narayan wagle	1/1/2001	5
<input type="checkbox"/>	2	java	mark	1/1/2000	10
<input type="checkbox"/>	3	database	jens	6/5/2003	10
<input type="checkbox"/>	4	karnali blues	buddhi sagar	1/4/2013	5
<input type="checkbox"/>	5	applied java	hans	6/8/2017	6
<input type="checkbox"/>	6	awesome	hahaha	11/1/2009	2
<input type="checkbox"/>	10	putali	nights	5/12/2007	5
<input type="checkbox"/>	11	bhesa	nights	9/12/2009	6

### Insert a User

Fulfill the right field of the desired data, after you fulfilled the field with correct format (please notice the format of Validate), Click on “INSERT USER” button.

After you click on “INSERT USER” button. The system will show a sentence “Wangshu has now registered in the Database” in the text area on the top. It means the new user has now registered in our library system.

The screenshot shows a window titled "Library system" with a confirmation message at the top: "wangshu is now registered in the DataBase." Below the message are two main sections: "Booklist" and "Userlist".

**Booklist Section:**

- Book Name:
- Author:
- Book ID:
- Number of Copy:
- Publish Date:    (DD:MM:YY)
- Insert book:

**Userlist Section:**

- User Name:
- Student ID:
- CPR No:
- Validate:    (DD:MM:YY)
- Insert User:

**Bottom Section:**

- Book\_ID:  Delete Book:
- Delete No:  Delete User:
- Back:

You can also find the new user has now been registered in our database.

<input type="checkbox"/>	full_name character varying (100)	student_no character varying (50)	cpr integer	validity character varying (15)
<input type="checkbox"/>	COCACOLA	A2600	123456780	1/1/2021
<input type="checkbox"/>	shishir sharma	S123	112345678	1/2/2018
<input type="checkbox"/>	prakash gandharba	pg123	987654321	1/6/2020
<input type="checkbox"/>	jensen	j123	213456789	1/7/2019
<input type="checkbox"/>	a	b120	234565432	1/2/2019
<input type="checkbox"/>	sacar	s238	122334455	1/6/2022
<input type="checkbox"/>	wangshu	w123	111222333	1/7/2023

### Delete a user

If you want to delete a user in our system, you need to input the CPR No. after you entered the CPR No, click on the “Delete User” button. Then, the system will show “CPR :111222333 has been deleted from the system” in the text area on the top. It means the chosen user has been deleted from our system.

The screenshot displays the 'Library system' window. At the top, a message box states: 'CPR :111222333 has been deleted from the system'. Below this, the interface is divided into two main sections: 'Booklist' and 'Userlist'.

**Booklist Section:**

- Book Name:
- Author:
- Book ID:
- Number of Copy:
- Publish Date:    (DD:MM:YY)
- 

**Userlist Section:**

- User Name:
- Student ID:
- CPR No:
- Validate:    (DD:MM:YY)
- 

Below these sections, there are two rows of controls:

- Row 1:
- Row 2:

A blue arrow points from the 'Delete User' button in the second row to the 'Delete User' button in the first row.

You can also find the user has now been deleted from our database.

<input type="checkbox"/>	full_name character varying (100)	student_no character varying (50)	cpr integer	validity character varying (15)
<input type="checkbox"/>	COCACOLA	A2600	123456780	1/1/2021
<input type="checkbox"/>	shishir sharma	S123	112345678	1/2/2018
<input type="checkbox"/>	prakash gandharba	pg123	987654321	1/6/2020
<input type="checkbox"/>	jensen	j123	213456789	1/7/2019
<input type="checkbox"/>	a	b120	234565432	1/2/2019
<input type="checkbox"/>	sacar	s238	122334455	1/6/2022

## User

This page more focuses on the function for the user or the customers, on this page you can borrow a book, return a book and see the list of customer, books and customers who have borrowed book. We can see list of books by clicking “Book List” button and we can see list of customers by clicking “Customers List” button.

The screenshot shows a window titled "Library system" with standard Windows window controls (minimize, maximize, close). The interface is divided into several sections:

- Top Section:** A large empty rectangular area, likely a placeholder for a header or image.
- Navigation Buttons:** Two buttons are positioned below the top section: "Book List" on the left and "Customers List" on the right.
- Form Panels:** Two side-by-side panels are located below the navigation buttons.
  - Left Panel:** Contains two input fields labeled "Book\_ID" and "C.P.R", followed by a "Borrow" button.
  - Right Panel:** Contains two input fields labeled "Book ID" and "CPR", followed by a "Return" button.
- Bottom Section:** Two buttons are centered at the bottom: "Borrow List" and "Back".

## Borrow Book

To borrow books, complete the left field of the desired data, after you finished the field, click on “Borrow” button. After you click on “Borrow” button, the system will show a sentence “Book ID: ‘id’ has been borrowed by CPR: ‘cpr’.” in the text area on the top. It means that a book has now been borrowed by a customer in our library system.

The screenshot displays a window titled "Library system" with standard Windows window controls (minimize, maximize, close). The main content area is light gray. At the top, a white text box contains the message: "Book ID : 2 has been burrowed by CPR 222222222". Below this, there are two buttons: "Book List" and "Customers List". The interface is divided into two main panels. The left panel contains a "Book\_ID" label next to a text input field with the value "2", a "C.P.R" label next to a text input field with the value "222222222", and a "Borrow" button below them. The right panel contains a "Book ID" label next to an empty text input field, a "CPR" label next to an empty text input field, and a "Return" button below them. At the bottom center, there are two buttons: "Borrow List" and "Back".

You can also find the user borrowing book has been registered in our database.

id integer	cpr integer
1	1908991234
4	1009981234
5	1234567890
2	22222222



## Return Book

To return books, complete the right field of the desired data, after you finished the field, click on “Return” button. After you click on “Return” button, the system will show a sentence “Book ID: ‘id’ has been returned by CPR: ‘cpr’.” in the text area on the top. It means that a book has now been returned by a customer in our library system.

The screenshot shows a window titled "Library system" with standard Windows window controls (minimize, maximize, close). At the top, a text area displays the message: "Book ID : 2 has been returned by CPR 22222222". Below this, there are two buttons: "Book List" and "Customers List". The main area is divided into two panels. The left panel contains a "Book\_ID" field with the value "2", a "C.P.R" field with the value "22222222", and a "Borrow" button. The right panel contains a "Book ID" field with the value "2", a "CPR" field with the value "22222222", and a "Return" button. At the bottom of the window, there are two buttons: "Borrow List" and "Back".

You can also find the user returning book has been registered in our database.

id integer	cpr integer
1	1908991234
4	1009981234
5	1234567890