

# Project Report

**Project Name: Library Management System**

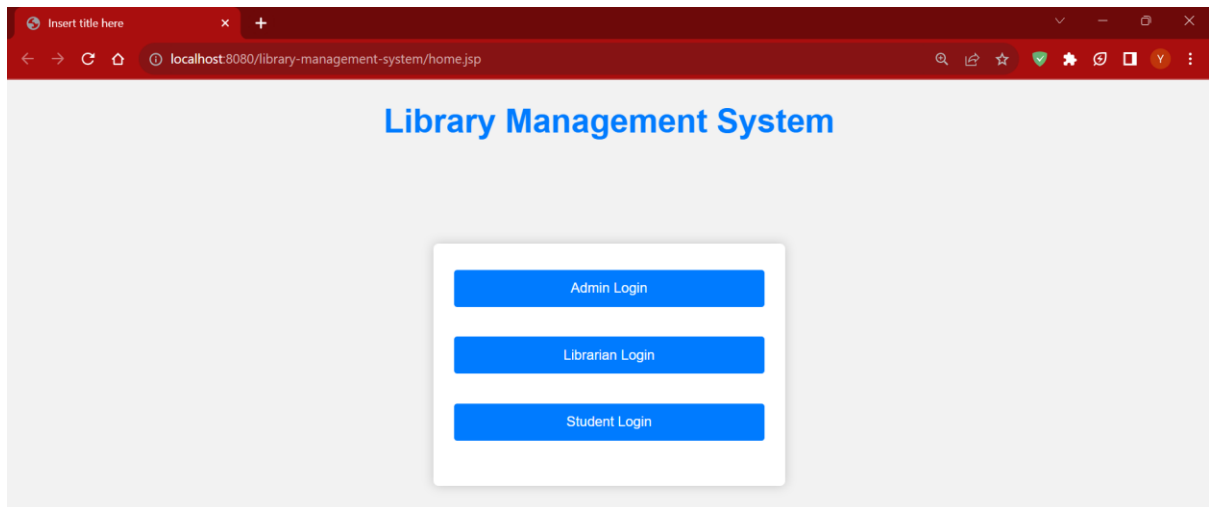
**Technologies used :**

Servlet, Hibernate, JDBC API, JSP(Java Server Pages)

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## **Project Overview :**

### 1. Home Page:

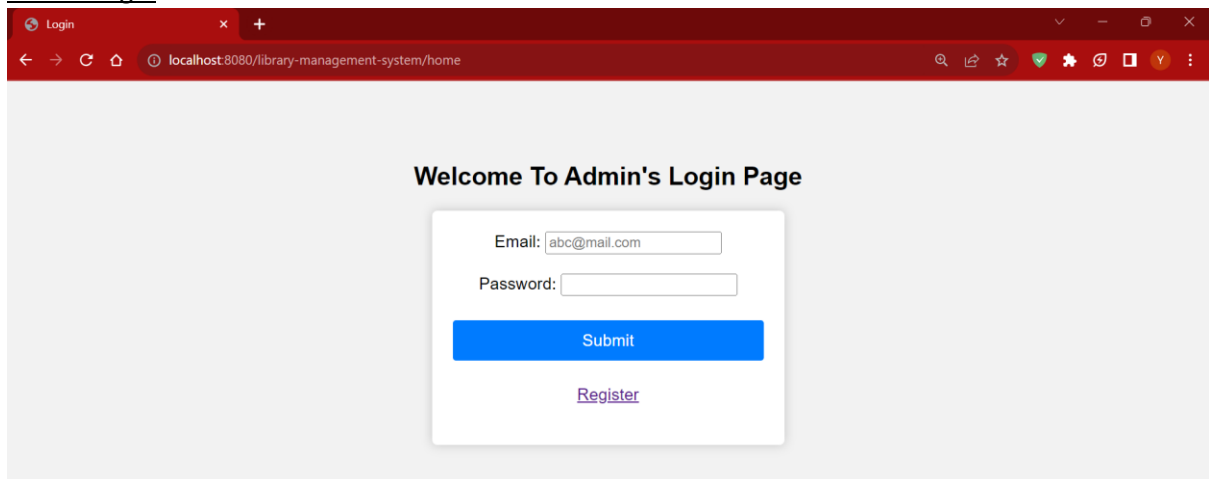


This is the home page of Library Management System. This system has three users:

- a. Admin
- b. Librarian &
- c. Student

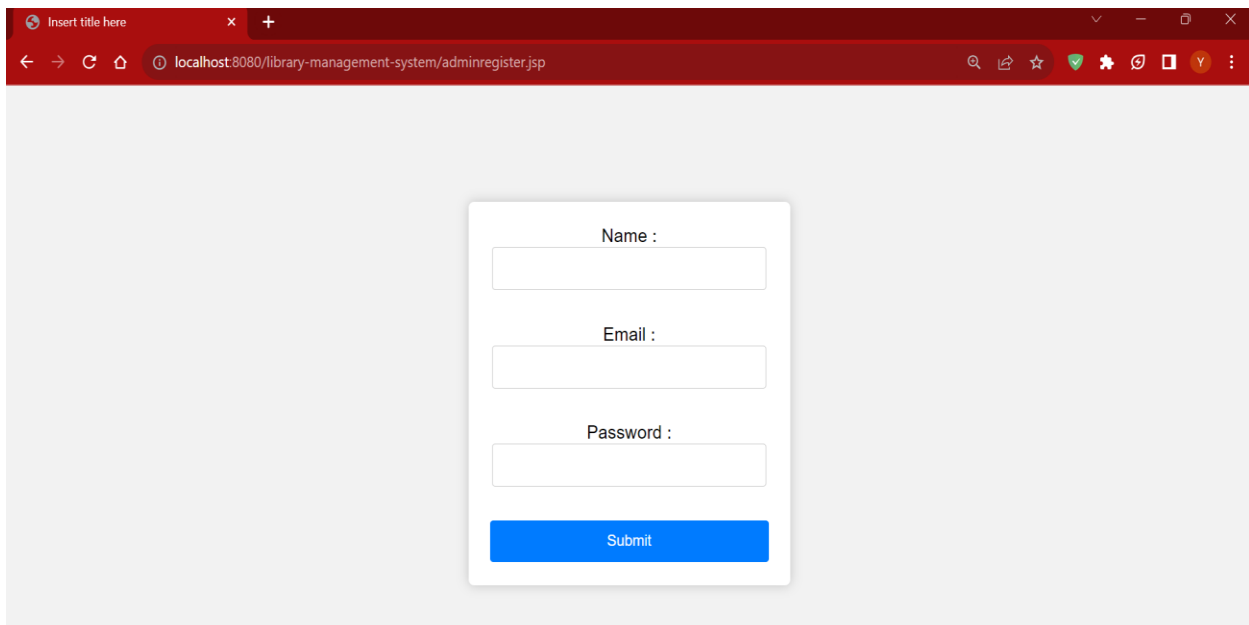
## **Admin Section:**

### Admin Login :



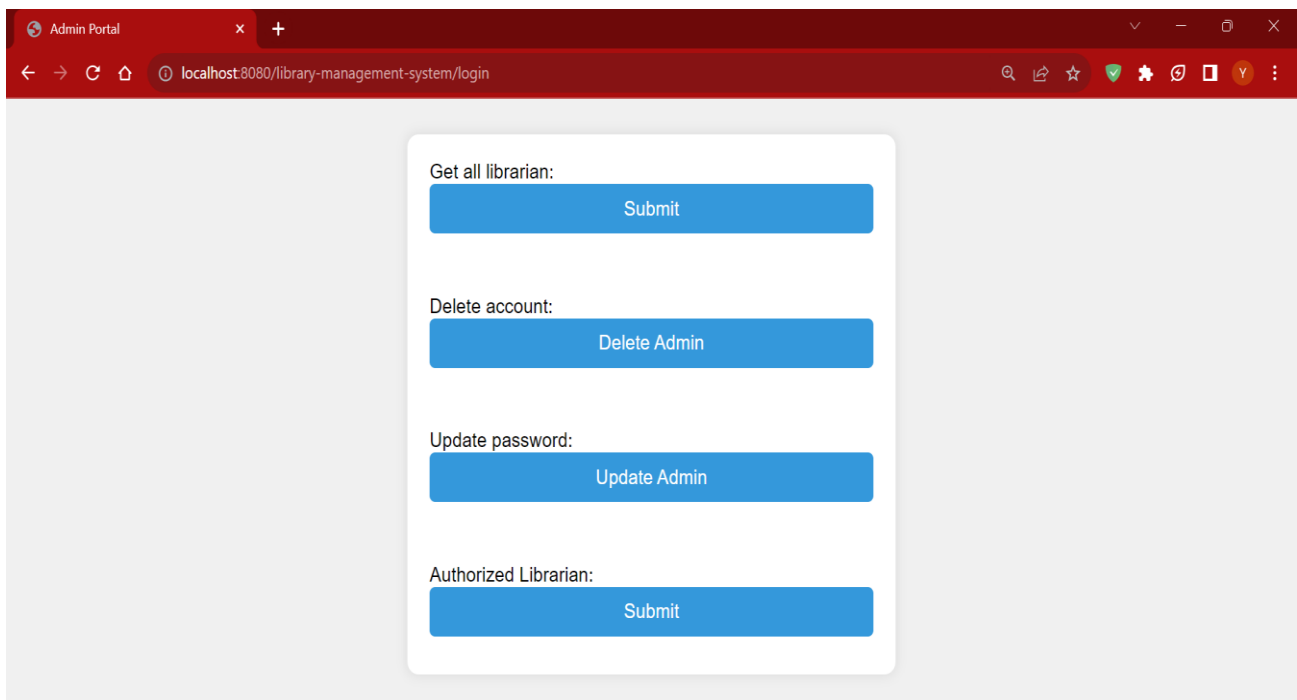
This is admin login page in which admin can login or if admin is new user then admin register himself To access further facilities.

If admin is new user to this system, then should enter the following details and create the account and then login into the portal.



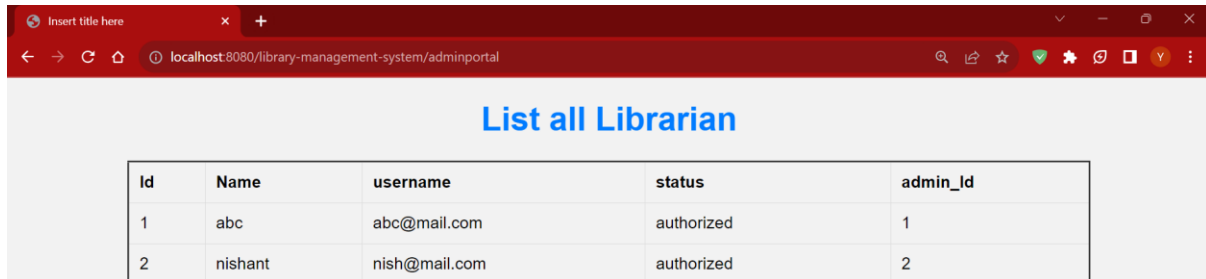
A screenshot of a web browser window showing the admin registration page. The browser's address bar displays 'localhost:8080/library-management-system/adminregister.jsp'. The page features a central white form with a light gray shadow. The form contains three input fields labeled 'Name :', 'Email :', and 'Password :'. Below these fields is a blue 'Submit' button.

After successful login, admin can update his details, also he can view all librarians and their status i.e. whether librarian is authorized or unauthorized and authorize the librarian if it is unauthorized . If admin authorizes the librarian, then only librarian is allowed to login on the portal else not.



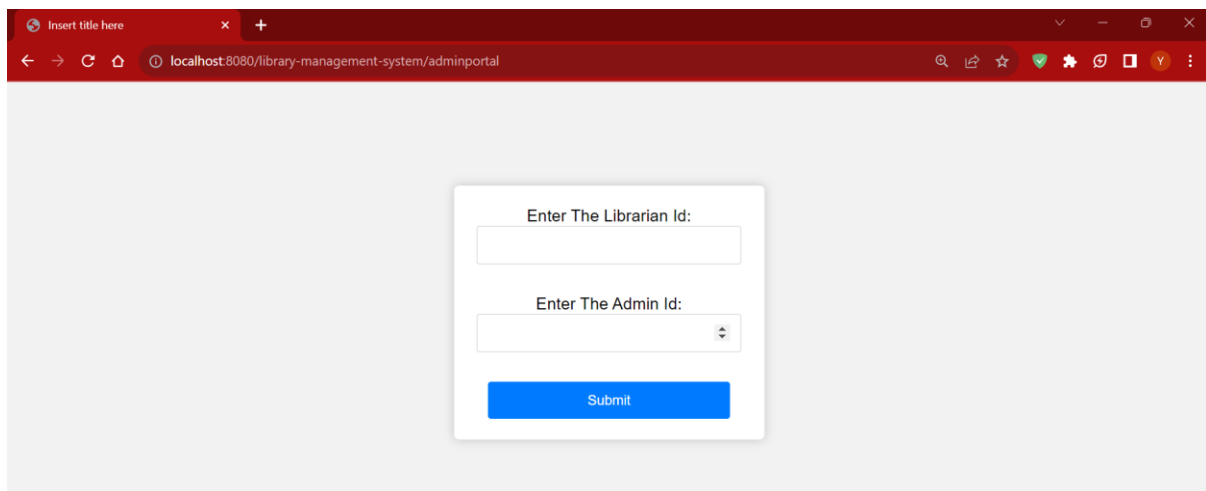
A screenshot of a web browser window showing the Admin Portal. The browser's address bar displays 'localhost:8080/library-management-system/login'. The page features a central white form with a light gray shadow. The form contains four sections, each with a label and a blue button: 'Get all librarian:' with a 'Submit' button, 'Delete account:' with a 'Delete Admin' button, 'Update password:' with an 'Update Admin' button, and 'Authorized Librarian:' with a 'Submit' button.

As given in the image below, if the librarian is registered but not authorized then status will become unauthorized and if admin authorizes the librarian then status changes to authorized and the admin id who authorized that particular librarian.

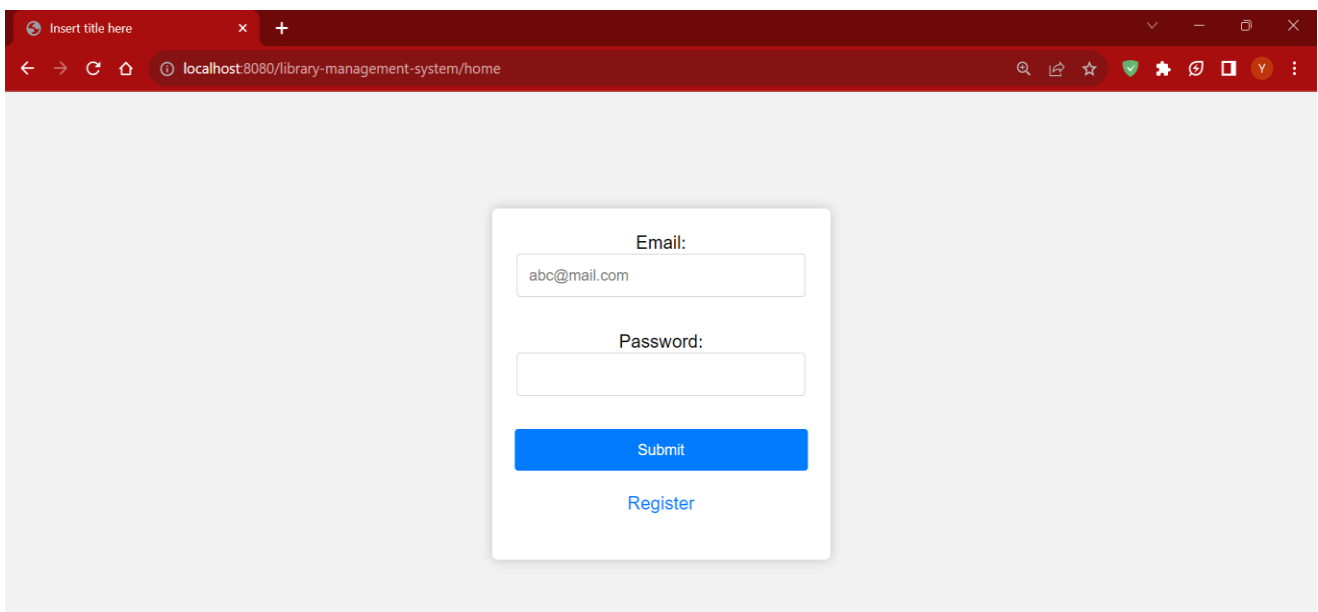


Id	Name	username	status	admin_id
1	abc	abc@mail.com	authorized	1
2	nishant	nish@mail.com	authorized	2

To authorize the librarian by the admin, admin has to enter librarian id to authorize that particular librarian .



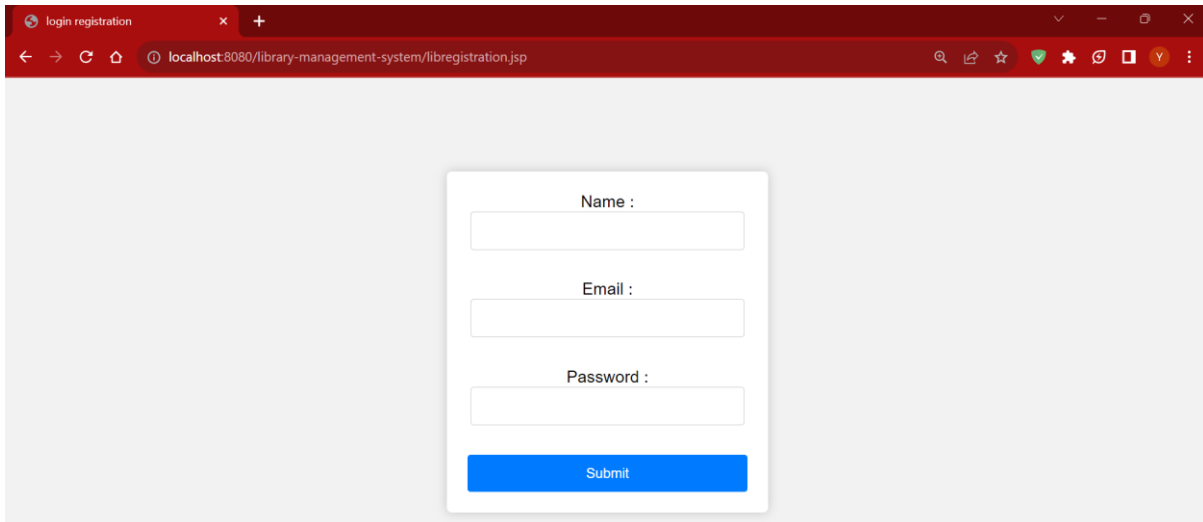
## b. Librarian Section:



This is Librarian's login page. After login into the system, librarian can able to access the facilities provided the librarian

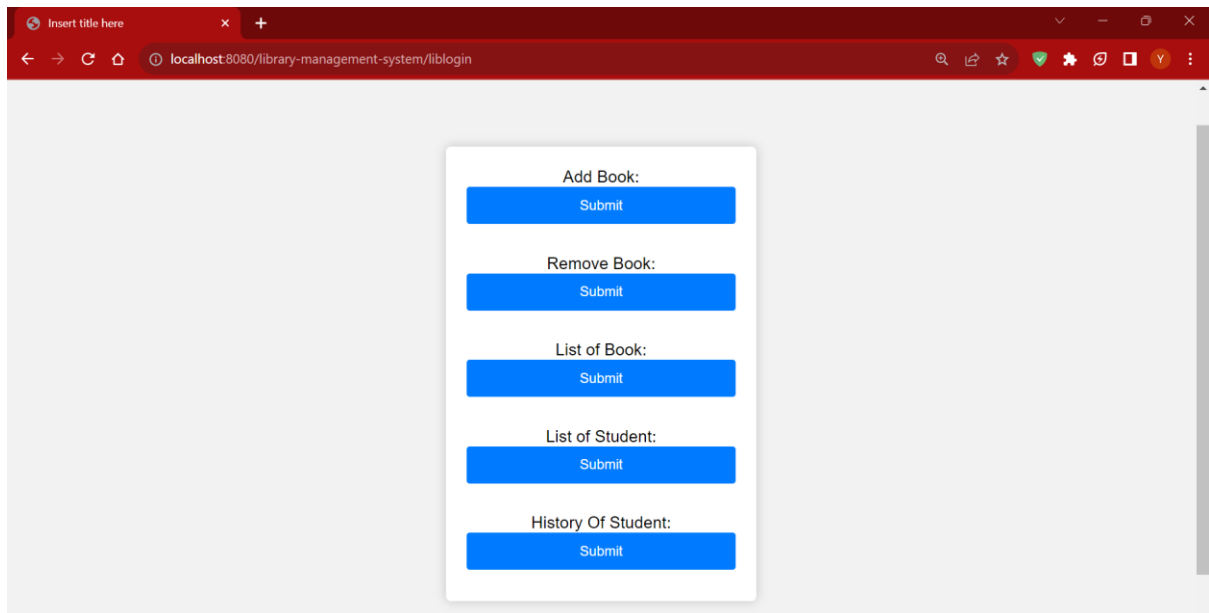
### Librarian Registration Page:

For new librarian registration, it should be registered by entering following details and register it. Unless and until admin authorized that librarian , he/she should not be able to login and enter into the system.



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/library-management-system/libregistration.jsp'. The page features a central white registration form with a blue 'Submit' button. The form contains three input fields labeled 'Name :', 'Email :', and 'Password :'. The browser's address bar also shows the page title 'login registration'.

### Librarian Facilities:



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/library-management-system/liblogin'. The page features a central white menu with five blue buttons, each preceded by a label: 'Add Book:', 'Remove Book:', 'List of Book:', 'List of Student:', and 'History Of Student:'. The browser's address bar also shows the page title 'Insert title here'.

After successful authorization , librarian can login and access the following facilities.

1. Add a new book
2. View List of books
3. List of students
4. All the history of issuing and returning book of every student

Add Book:

Insert title here

localhost:8080/library-management-system/libportal

Book name:

Author name:

Submit

List Of Books:

Insert title here

localhost:8080/library-management-system/libportal

List of Books

Id	Author	Book name	Issue date	Status	Librarian id	Student Id	Issue book
1	Joseph Murphy	The Power of your subconscious mind	2023-10-17	Issued	2	1	<a href="#">Issue</a>
2	Dr APJ ABDUL KALAM	Agnipankh	null	Avaliable			<a href="#">Issue</a>
3	Dr APJ ABDUL KALAM	Turning Points: A Journey Through Challenges	null	Avaliable			<a href="#">Issue</a>

List Of students:

Insert title here

localhost:8080/library-management-system/libportal

List Of Student

student id	student name	Degree	Stream	Year	Delete	Update
1	Devesh	BE	EXTC	2022	<a href="#">Delete</a>	<a href="#">Update</a>

History of book issued and returned:



History Table

Id	Student Id	librarian Id	Book Id	Issue Date	Return Date
1	1	2	1	2023-10-17	2023-10-17

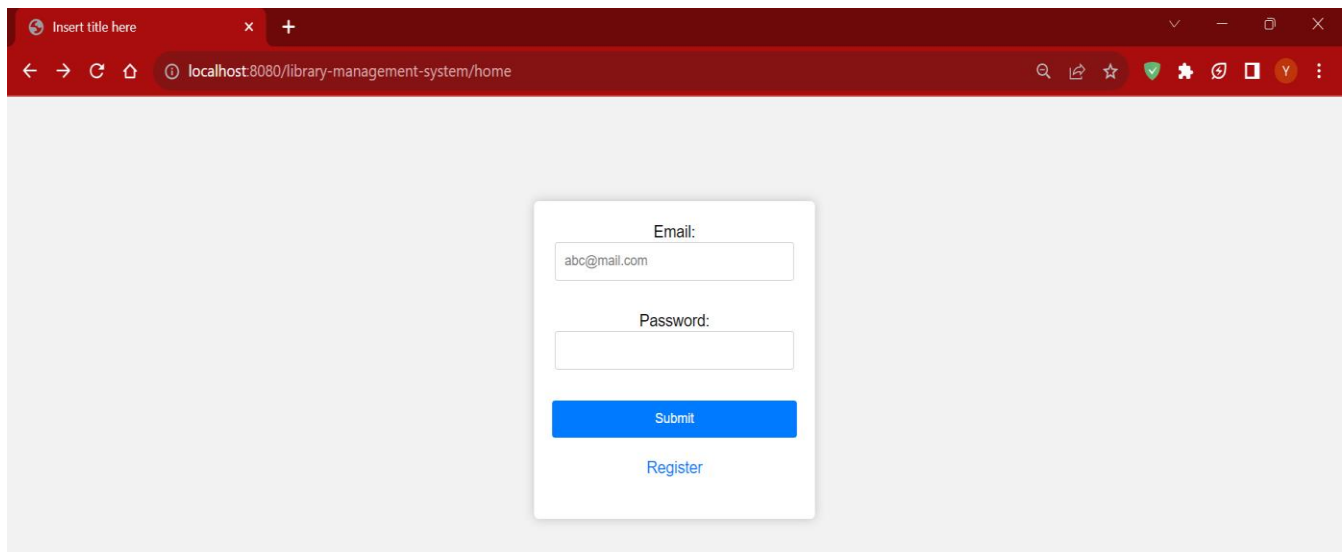
c. Student Section:

1. Student Registration:

A screenshot of a web browser window showing a student registration form. The browser address bar shows 'localhost:8080/library-management-system/addstudent.jsp'. The form is a white box with a blue 'Submit' button at the bottom. It contains six input fields with labels: 'Student's name:', 'Student's degree:', 'Student's stream:', 'Student's year:', 'Username:', and 'Password :'. The 'Password :' label has a colon at the end.

If a student is a new user , then need to enter following details and complete the registration then only a particular student can login into the system.

## Student Login:



The screenshot shows a web browser window with a red header bar. The address bar displays 'localhost:8080/library-management-system/home'. The main content area is light gray and contains a white login form. The form has two input fields: 'Email:' with the value 'abc@mail.com' and 'Password:'. Below the password field is a blue 'Submit' button and a blue 'Register' link.

After successful registration , student can login and access the portal , where he can issue the book , return the book . If a particular student issues a book then Status will change from **Available** to **Issued**. Again when student return the book then status will be changed from Issued to Available.

All the history of issue date and return date will be maintained by the librarian to keep track of records.