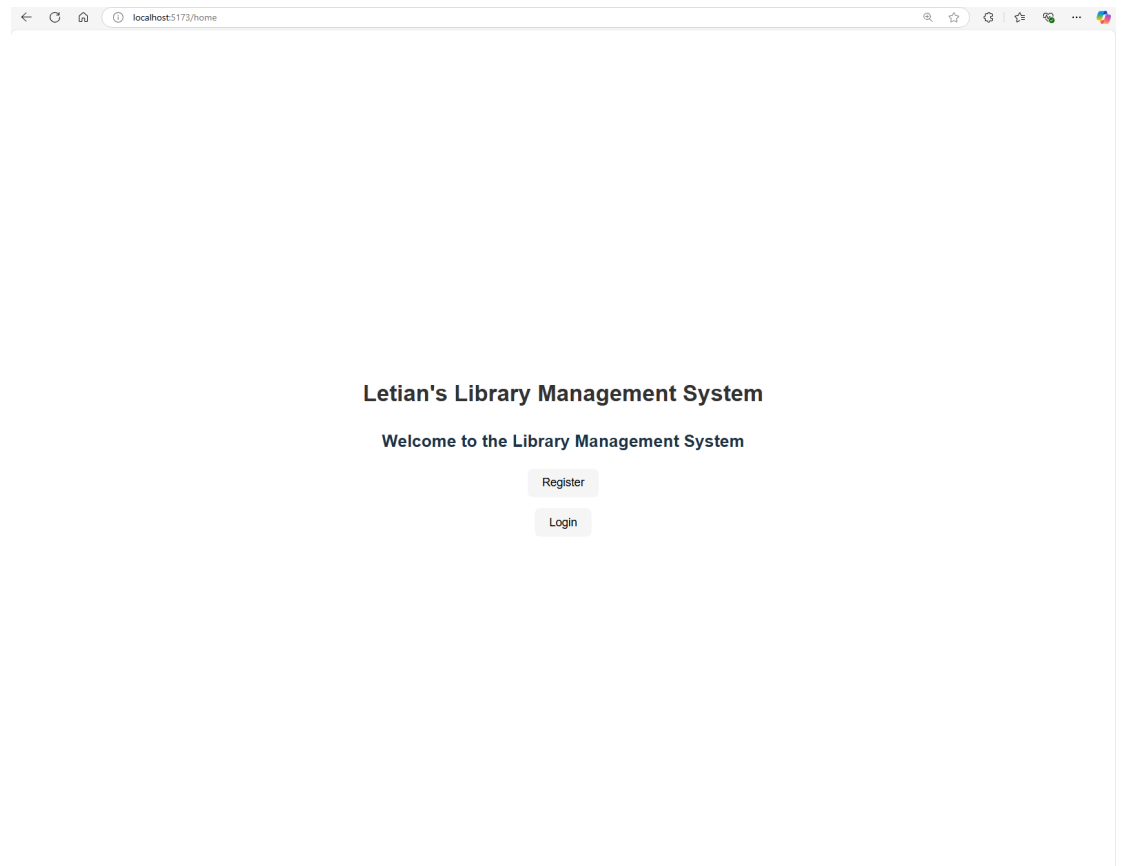


1. Landing Page (Home)

- a. User can visit either the Register or Login Page



b.

2. User Registration:

- a. User Registration: A user registered here can only be a Member (i.e. not admin), admins are registered using the Admin Portal

A screenshot of a web browser showing the registration form of 'Letian's Library Management System'. The browser's address bar shows 'localhost:5173/register'. The form is centered on the page and consists of a light gray box with a white background. Inside the box, the title 'Letian's Library Management System' is at the top. Below it, there are five input fields: 'Full Name', 'Email', 'Password', 'Address', and 'Contact Number'. Each field has a light gray border and a small icon on the right side. At the bottom of the form, there is a prominent blue button labeled 'Register'.

i.

- b. Validation: UserName, Email, and Password are mandatory, Password Length need to be longer than 6, Email format need to contain '@', '.c'

- i. UserName is mandatory

Letian's Library Management System

A registration form titled "Letian's Library Management System". It contains five input fields: "Full Name", "Email", "Password", "Address", and "Contact Number". The "Email" field is highlighted with a blue border, and a tooltip with an orange exclamation mark icon and the text "Please fill out this field." points to it. Below the fields is a blue "Register" button.

Full Name
Email
Password
Address
Contact Number
Register

- ii. Email is mandatory

Letian's Library Management System

A registration form titled "Letian's Library Management System". It contains five input fields: "Full Name" (containing "abc"), "Email", "Password", "Address", and "Contact Number". The "Password" field is highlighted with a blue border, and a tooltip with an orange exclamation mark icon and the text "Please fill out this field." points to it. Below the fields is a blue "Register" button.

abc
Email
Password
Address
Contact Number
Register

- iii. Emails need to fulfill criteria

Letian's Library Management System

A registration form titled "Letian's Library Management System". It contains five input fields: "Email" (containing "abc"), "Password" (containing "abc"), "Address", "Contact Number", and a blue "Register" button. A validation error message is displayed above the Password field: "Please include an '@' in the email address. 'abc' is missing an '@'." The message is preceded by an orange warning icon.

Letian's Library Management System

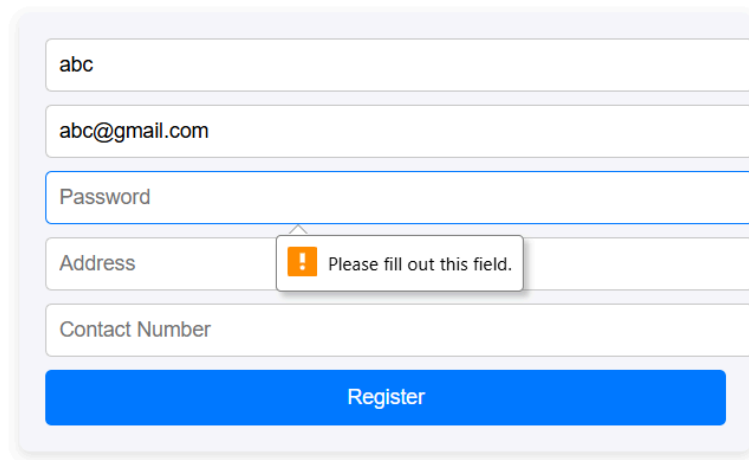
A registration form titled "Letian's Library Management System". It contains five input fields: "Email" (containing "abc"), "Password" (containing "abc@"), "Address", "Contact Number", and a blue "Register" button. A validation error message is displayed above the Password field: "Please enter a part following '@'. 'abc@' is incomplete." The message is preceded by an orange warning icon.

Letian's Library Management System

A registration form titled "Letian's Library Management System". It contains five input fields: "Email" (containing "abc"), "Password" (containing "abc@gmail."), "Address", "Contact Number", and a blue "Register" button. A validation error message is displayed above the Password field: "'.' is used at a wrong position in 'gmail.'" The message is preceded by an orange warning icon.

- iv. Password is mandatory

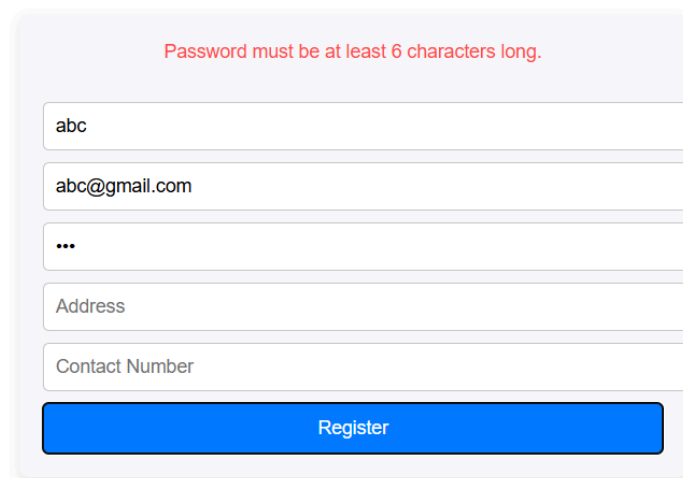
Letian's Library Management System



A registration form titled "Letian's Library Management System". It contains five input fields: "abc" in the first field, "abc@gmail.com" in the second, "Password" in the third, "Address" in the fourth, and "Contact Number" in the fifth. A blue "Register" button is at the bottom. A red error message "Please fill out this field." with an exclamation mark icon is displayed next to the "Address" field.

- v. Password needs to be at least 6 characters long, a prompt will appear upon clicking Register while the condition is not being fulfilled

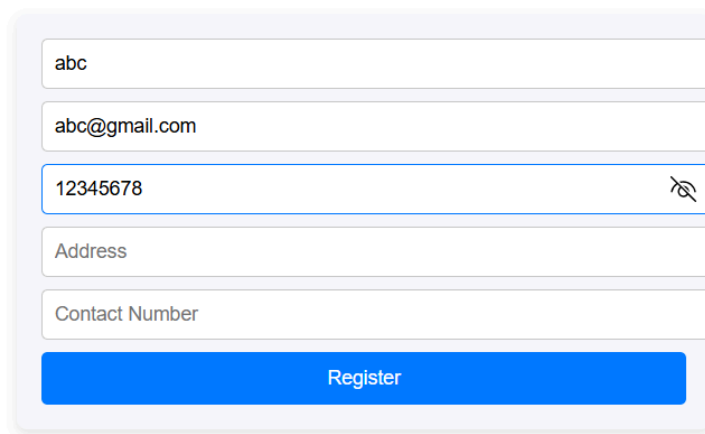
Letian's Library Management System



A registration form titled "Letian's Library Management System". It contains five input fields: "abc" in the first field, "abc@gmail.com" in the second, "..." in the third, "Address" in the fourth, and "Contact Number" in the fifth. A blue "Register" button is at the bottom. A red error message "Password must be at least 6 characters long." is displayed at the top of the form.

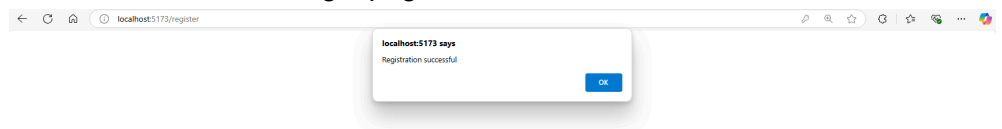
- vi. An example of successful registration condition

Letian's Library Management System

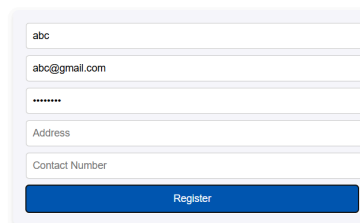


A registration form with the following fields: a text input containing 'abc', an email input containing 'abc@gmail.com', a password input containing '12345678' with a visibility toggle icon, an 'Address' label, a 'Contact Number' label, and a blue 'Register' button.

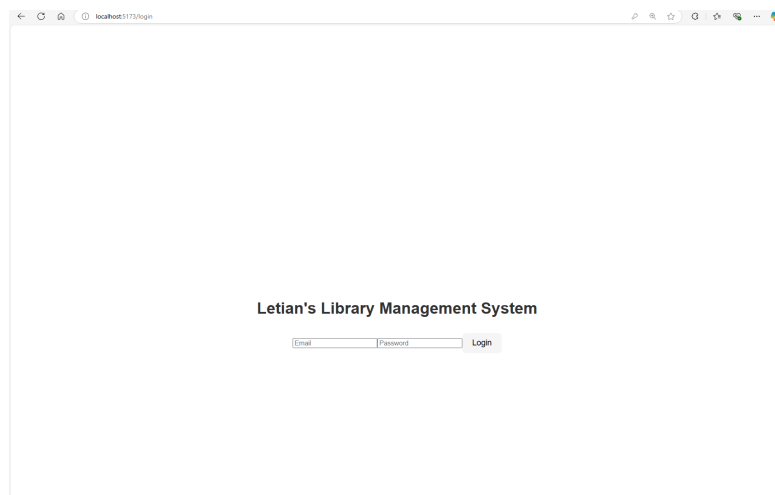
- vii. A prompt will appear when the Registration is successful, and the user will be directed to the Login page



Letian's Library Management System



A registration form with the following fields: a text input containing 'abc', an email input containing 'abc@gmail.com', a password input containing '*****' with a visibility toggle icon, an 'Address' label, a 'Contact Number' label, and a blue 'Register' button.



A login page with the title 'Letian's Library Management System' and a form with 'Email' and 'Password' input fields and a 'Login' button.

3. User Login: Logged-in users can visit one of the two portals: Admin Portal and Member Portal.
- a. Need to fill in both fields

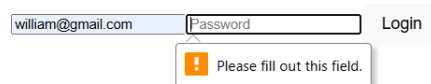
Letian's Library Management System



A screenshot of the login form for 'Letian's Library Management System'. It features two input fields: 'Email' and 'Password'. The 'Email' field is currently empty. Below the 'Email' field, there is a red error message that says 'Please fill out this field.' To the right of the 'Password' field is a 'Login' button.

i.

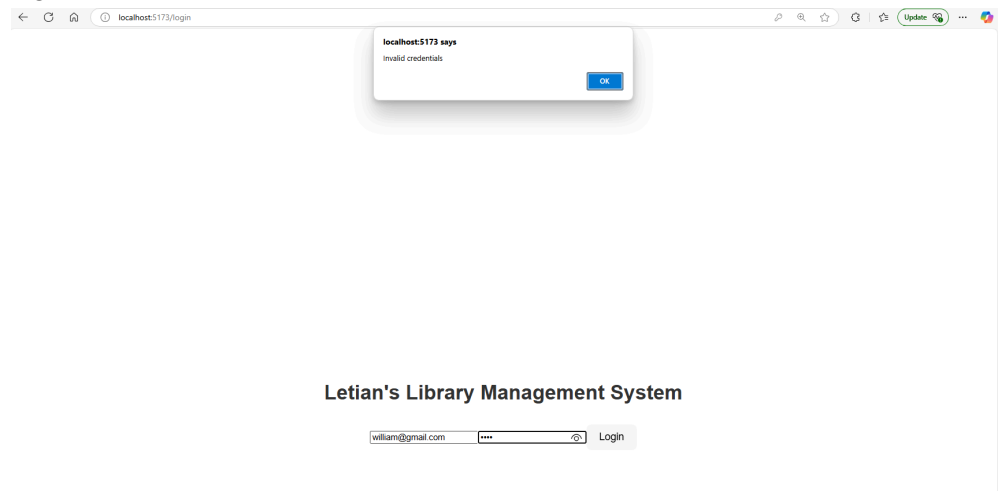
Letian's Library Management System



A screenshot of the login form. The 'Email' field now contains the text 'william@gmail.com'. The 'Password' field remains empty. The red error message 'Please fill out this field.' is still present below the email field. The 'Login' button is to the right of the password field.

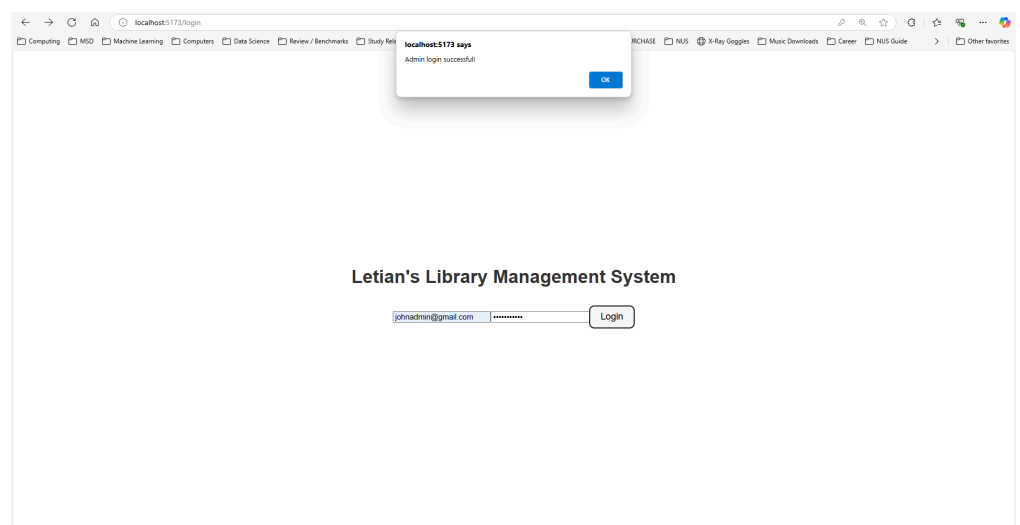
ii.

- b. Failed Login:

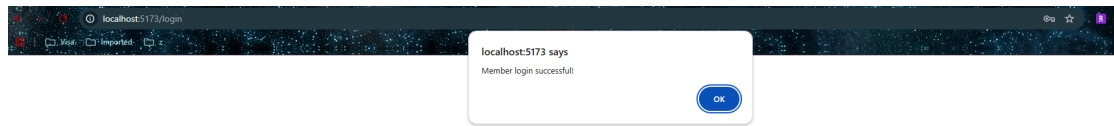


i.

- c. The first screenshot shows the confirmation



i.



Letian's Library Management System

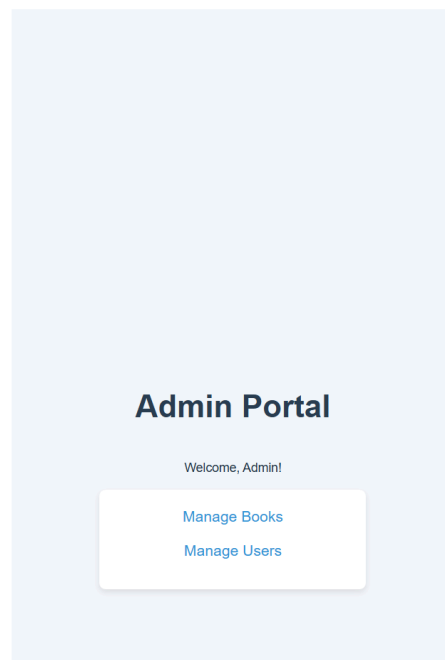
ii.

4. Admin Portal:

- a. The Admins will see this screen upon log in. The Admin can visit 2 different systems. The first one is the Book Management System, and the second is the User Management System.



Letian's Library Management System



5. Book Management System:

- a. The admin can search a book, add a book, edit, or delete a book

← ↻ 🏠 localhost:5173/book-management 🔍 ⭐ ⌂ Update 🔄 ⋮

Letian's Library Management System

Book Management

Book Title

Alice's Adventures in Wonderland by Lewis Carroll
ISBN: 978-1503222687 | Category ID: 2
Published: 2020 | Copies Available:

How to Win Friends and Influence People by Dale Carnegie
ISBN: 978-0671027032 | Category ID: 2
Published: 1998 | Copies Available:

The Great Gatsby by F. Scott Fitzgerald
ISBN: 978-8351145013 | Category ID: 3
Published: 2022 | Copies Available:

i.

b. Search a Book:

Letian's Library Management System

Book Management

Book Title:

Alice's Adventures in Wonderland by Lewis Carroll
ISBN: 978-1503222687 | Category ID: 2
Published: 2020

i.

c. Add Book: All fields must be filled to successfully add a book

Letian's Library Management System

Book Management

Book Title:

All fields must be filled.

Add Book

Alice's Adventures in Wonderland by Lewis Carroll
ISBN: 978-1503222687 | Category ID: 2
Published: 2020
Edit Delete

How to Win Friends and Influence People by Dale Carnegie
ISBN: 978-0671027032 | Category ID: 2
Published: 1998
Edit Delete

- i.
- d. Update a Book: The existing data will be populated and the admin can click on Update Book to update the book info:

Letian's Library Management System

Book Management

Book Title:

abc

bcd

1234

1

2015

Update Book

Cancel

Alice's Adventures in Wonderland by Lewis Carroll

ISBN: 978-1503222687 | Category ID: 2

Published: 2020

EditDelete

How to Win Friends and Influence People by Dale Carnegie

ISBN: 978-0671027032 | Category ID: 2

Published: 1998

EditDelete

The Great Gatsby by F. Scott Fitzgerald

ISBN: 979-8351145013 | Category ID: 3

Published: 2022

EditDelete

abc by bcd

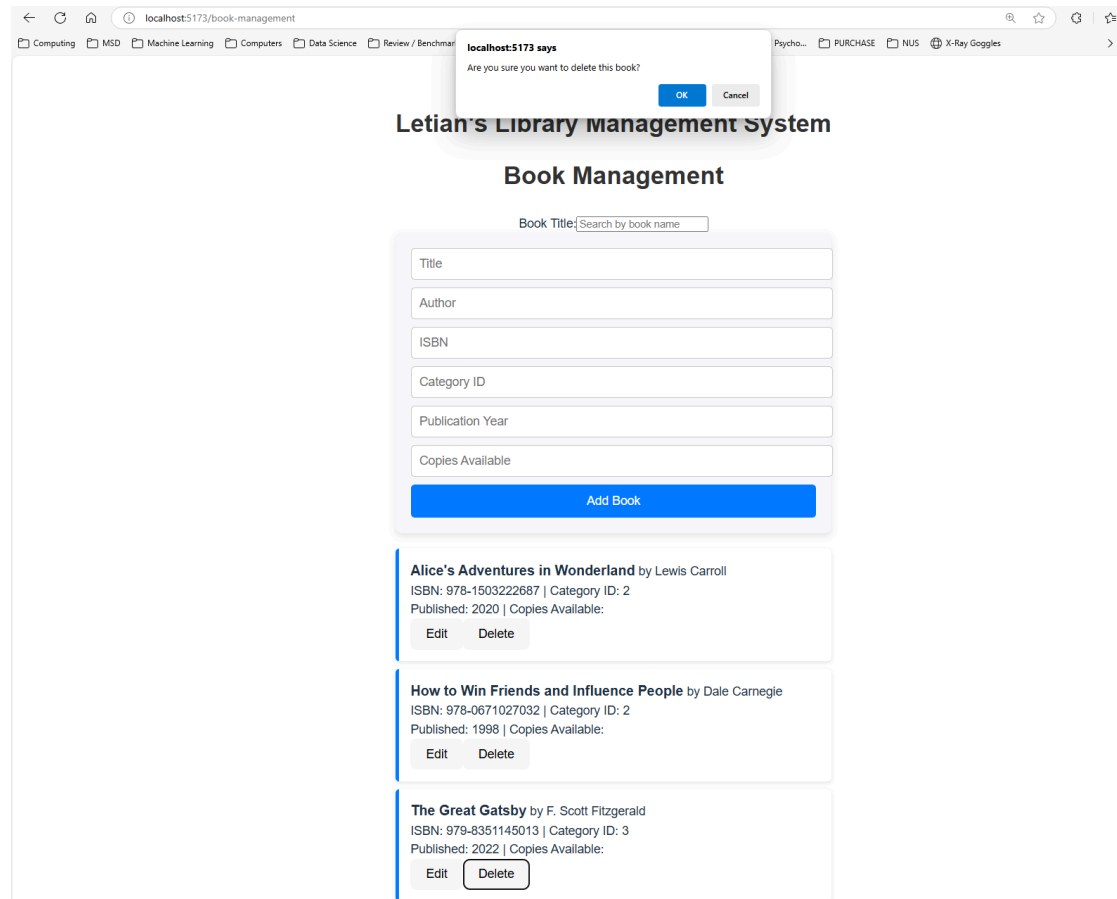
ISBN: 1234 | Category ID: 1

Published: 2015

EditDelete

- i.
- e. Delete Book: A confirmation prompt will be given before a Book is deleted

i.



1. When the delete button is clicked, a confirmation dialog appears.
 2. If the user clicks "OK," the deletion proceeds.
 3. If the user clicks "Cancel," the deletion is aborted.
6. User Management: The admin can search the user by Name, Email, or Roles. The admin can also edit or delete a user.

← ↻ 🏠 localhost:5173/user-management 🔍 ☆ ⚙️ ☆ Update 🔄

Users List

All Roles ▾

John Admin - johnadmin@gmail.com (librarian)	Edit Delete
Member Doe - memberdoe@outlook.com (member)	Edit Delete
William - william@gmail.com (member)	Edit Delete
Letian - letian@gmail.com (librarian)	Edit Delete
Ma Letian - maletian@outlook.com (member)	Edit Delete
abc - abc@gmail.com (member)	Edit Delete
qwe - qwe@gmail.com (member)	Edit Delete

Add User

Member ▾

- a.
- b. Search:
- i. Search by Name

Letian's Library Management System

Users List

All Roles ▾

William - william@gmail.com (member)	Edit Delete
qwe - qwe@gmail.com (member)	Edit Delete

Add User

Member ▾

ii. Search by Email:

Letian's Library Management System

Users List

All Roles

Ma Letian - maletian@outlook.com (member)

EditDelete

Add User

Member

Add User

iii. Search by Roles:

Letian's Library Management System

Users List

Librarian

John Admin - johnadmin@gmail.com (librarian)

EditDelete

Letian - letian@gmail.com (librarian)

EditDelete

Add User

Member

Add User

c. Add a User:

Add User

zxc

zxc@gmail.com

.....

Address

Contact Number

Member

Add User

i.

ii. A user can be added as a member (zxc):

John Admin - johnadmin@gmail.com (librarian) Edit Delete

Member Doe - memberdoe@outlook.com (member) Edit Delete

William - william@gmail.com (member) Edit Delete

Letian - letian@gmail.com (librarian) Edit Delete

Ma Letian - maletian@outlook.com (member) Edit Delete

abc - abc@gmail.com (member) Edit Delete

qwe - qwe@gmail.com (member) Edit Delete

zxc - zxc@gmail.com (member) Edit Delete

Add User

Name

Email

Password

Address

Contact Number

Member

Add User

iii. A user can also be added as a librarian (zxc123):

John Admin - johnadmin@gmail.com (librarian)	Edit	Delete
Member Doe - memberdoe@outlook.com (member)	Edit	Delete
William - william@gmail.com (member)	Edit	Delete
Letian - letian@gmail.com (librarian)	Edit	Delete
Ma Letian - maletian@outlook.com (member)	Edit	Delete
abc - abc@gmail.com (member)	Edit	Delete
qwe - qwe@gmail.com (member)	Edit	Delete
zxc123 - zxc123@gmail.com (librarian)	Edit	Delete

Add User

Name
Email
Password
Address
Contact Number
Member

Add User

d. Edit User:

- Similar to Book Management, the existing data will be populated and the admin can click on Update User to update the user info:

John Admin - johnadmin@gmail.com (librarian) Edit Delete

Member Doe - memberdoe@outlook.com (member) Edit Delete

William - william@gmail.com (member) Edit Delete

Letian - letian@gmail.com (librarian) Edit Delete

Ma Letian - maletian@outlook.com (member) Edit Delete

abc - abc@gmail.com (member) Edit Delete

qwe - qwe@gmail.com (member) Edit Delete

zxc - zxc@gmail.com (member) Edit Delete

Edit User

zxc

zxc@gmail.com

.....

Address

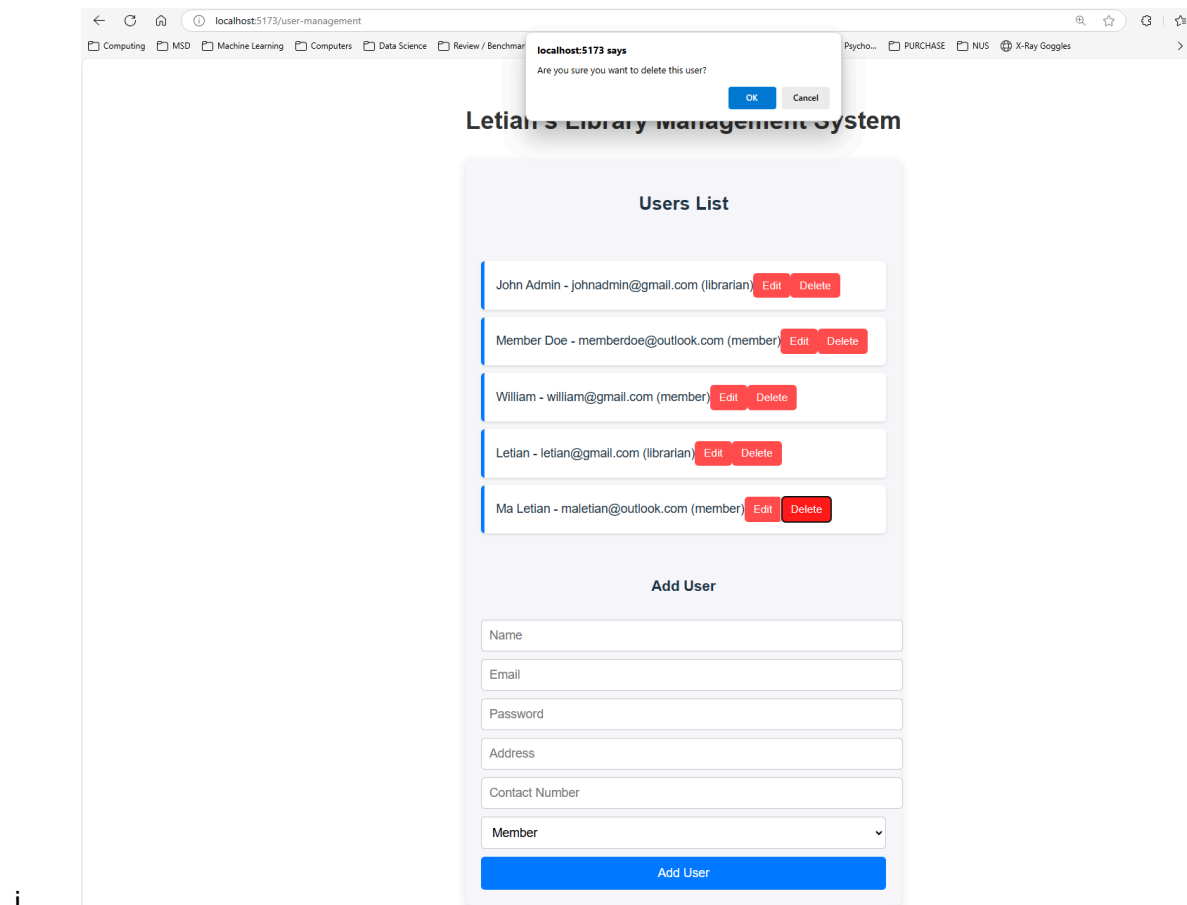
Contact Number

Member

Update User

ii.

e. Confirmation before an user is deleted:



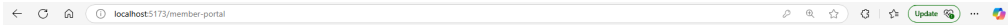
i.

1. When the delete button is clicked, a confirmation dialog appears.
2. If the user clicks "OK," the deletion proceeds.
3. If the user clicks "Cancel," the deletion is aborted.

f.

7. Member Portal:

- a. Member can borrow and view any books that the user has borrowed. Only the Members can log in to this portal.



Letian's Library Management System

Welcome to the Member Portal

Available Books

Alice's Adventures in Wonderland by Lewis Carroll

ISBN: 978-1503222687 | Copies Available:

Status: Available

Borrow

How to Win Friends and Influence People by Dale Carnegie

ISBN: 978-0671027032 | Copies Available:

Status: Available

Borrow

The Great Gatsby by F. Scott Fitzgerald

ISBN: 979-8351145013 | Copies Available:

Status: Available

Borrow

Your Borrowed Books

You have not borrowed any books.

8. Due date are automatically set to 14 days

The screenshot shows a database management interface with a table named 'tbl_loans'. The table has the following columns: loan_id, user_id, book_id, borrowed_date, due_date, return_date, status, and renewal_count. The data is as follows:

loan_id	user_id	book_id	borrowed_date	due_date	return_date	status	renewal_count
1	2	3	2025-03-15	2025-03-28	NULL	BORROWED	0
2	3	2	2025-03-15	2025-03-28	NULL	BORROWED	0
3	3	3	2025-03-21	2025-04-04	NULL	BORROWED	1
4	3	1	2025-03-21	2025-04-04	NULL	BORROWED	NULL
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

- a.