

E-Library System

❖ Functional Requirements

Contents

1. Registration Page:	3
2. Login:	4
3. Search Books page:	5
4. About Page:	5
5. Price Card:	6
6. Library Admin User Actions:	6
6.1 Add a New Book:	6
6.2 Search Book	7
6.3 Edit Book:	8
6.4 Delete Book:	8

E-Library:

This project aims to build a e-library system through which user will be able to login and purchase their choice of book.

Users can register themselves to login into the application, users are allowed to search books and purchase the book which they are willing to buy.


Library Admin is only allowed to add new book, edit the entire details of the book & delete the book.

1. Registration Page:

User will be able to register by clicking the register link from login screen. On successful submit, data should be inserted into the database

Below are the fields for Register page.

Fields	Validations	Comments
First Name	Required Alphabets only	
Last Name	Required Alphabets only	
Email	Required Email validation	Email will be a username for login So we have to provide a small instructional message saying – your email will be a username.
Password	Required 10 characters 1 uppercase 1 number 1 special characters	

 [Home](#) [About Library](#) [Rules & Regulations](#) [Price Card](#) [Login](#)

Sign Up

First name

Last name

Email address

Password

[Sign Up](#)

2. Login:

Login page is for user to login into the application:

Fields	Validations	Comments
Email	Required Email validation	
Password	Required	




3. Search Books page:

After login users will be able to search for books. After entering the book title and when we click on search button – search results will be pulled from database based on the book title provided. Data will be displayed in the table.

When select the book to purchase, count of the availability should be reduced.

Book ID	Book Name	Book Description	Author	Number of books available	Purchase


[Home](#)
[About Library](#)
[Rules & Regulations](#)
[Price Card](#)
[Search](#)

Search Book

Book Title:

[Search](#)

Name	Position	Office	Age	Start date	Salary	
Airi Saitou	Accountant	Tokyo	33	2008/11/28	\$162,700	purchase
Angelica Ramos	Chief Executive Officer (CEO)	London	47	2009/10/09	\$1,390,000	purchase
Ashley Cox	Junior Technical Author	San Francisco	66	2009/01/12	\$86,000	purchase
Bradley Greer	Software Engineer	London	41	2012/10/13	\$132,000	purchase
Brenden Wagner	Software Engineer	San Francisco	29	2011/06/07	\$206,850	purchase
Briella Williamson	Integration Specialist	New York	41	2012/12/02	\$372,000	purchase
Bruno Nash	Software Engineer	London	38	2011/05/03	\$163,300	purchase
Caesar Vance	Pre-Sales Support	New York	21	2011/12/12	\$106,450	purchase
Cara Stevens	Sales Assistant	New York	46	2011/12/06	\$145,600	purchase
Cedric Kelly	Senior Javascript Developer	Edinburgh	22	2012/03/29	\$433,060	purchase

Search only visible
after login

Visible only for User for
purchasing the book

4. About Page:

About page is a static page, which will have information about the online library. You can add some content about the organization, what are all the services provided by the organization.

Please list the rules and regulations to be followed in the online library.

[Home](#)[About Library](#)[Rules & Regulations](#)[Price Card](#)[Login](#)

Welcome To Library Management System

Online library management project in spring and hibernate is complete solution for all the manual problem that we face during the library management. Mainly there are 2 main actor of the application that going to operate the application **1)Admin/Librarian and 2) User/Students.**

Book or Digital books is the main module of the library management system. Book are assets that we are storing in the database with some details like name, author name and version and a PDF format. So admin can perform crud operation and issued the booked to users

5. Price Card:

This will be a static page where you have mentioned the charges for lending a book from library. Please mention the pricing in table.


6. Library Admin User Actions:

6.1 Add a New Book:

Library Admin user will have privileges to add a new book by clicking the Add book link; this link will be only visible to admin.

Fields	Validations	Comments
Book ID	Required Numeric	
Book Title	Required Alphanumeric Length - 50	
Book Description	Alphanumeric Length - 150	
Author Name	Required Alphanumeric Length - 50	

Number of book available	Required Numeric	
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[Home](#)
[About Library](#)
[Rules & Regulations](#)
[Price Card](#)
[Search](#)
[Add Book](#)

Add Book

Book ID:

Book Title:

Book Desc:

Author Name:

Number of Book Available:


[Add Book](#)

Only visible for Admin

6.2 Search Book

Book ID	Book Name	Book Description	Author	Number of books available	Purchase





















After login users will be able to search for books. After entering the book title and when we click on search button – search results will be pulled from database based on the book title provided. Data will be displayed in the table.


[Home](#)
[About Library](#)
[Rules & Regulations](#)
[Price Card](#)
[Search](#)
[Add Book](#)

Search Book

Book Title:

[Search](#)


Name	Position	Office	Age	Start date	Salary	
Ari Setiv	Accountant	Tokyo	33	2008/11/28	\$162,700	 
Angelica Ramos	Chief Executive Officer (CEO)	London	47	2009/10/09	\$1,200,000	 
Ashlon Cox	Junior Technical Author	San Francisco	66	2009/01/12	\$86,000	 
Bradley Greer	Software Engineer	London	41	2012/10/13	\$132,000	 
Brenden Wagner	Software Engineer	San Francisco	28	2011/06/07	\$206,850	 
Brille Williamson	Integration Specialist	New York	61	2012/12/02	\$372,000	 
Bruno Nash	Software Engineer	London	38	2011/05/03	\$163,500	 
Caesar Vance	Pre-Sales Support	New York	21	2011/12/12	\$106,430	 
Cara Stevens	Sales Assistant	New York	46	2011/12/06	\$145,600	 
Cedric Kelly	Senior Javascript Developer	Edinburgh	22	2012/03/29	\$433,060	 

Rows per page: 10 25 50 100 1-10 of 57

Visible only for Admin

6.3 Edit Book:





















When admin click on the edit link will be redirected to edit book page where admin will be able to edit the book information and save the changes. Edit page design is same as Add book page design.


[Home](#)
[About Library](#)
[Rules & Regulations](#)
[Price Card](#)
[Search](#)
[Add Book](#)

Search Book

Book Title:

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Rows per page: 10 25 50 100 1-10 of 57

Edit Book only visible for Admin

6.4 Delete Book:

Delete action is used to delete the book record from the system. For deleting there record, only admin user will have delete privileges. When user click deletes, a popup should appear to confirm the deletion.

The screenshot displays the 'Search Book' page of a library management system. At the top, there is a navigation bar with links: Home, About Library, Rules & Regulations, Price Card, Search, and Add Book. Below the navigation bar, the 'Search Book' section features a 'Book Title:' input field and a 'Search' button. A 'Confirmation' popup is centered on the screen, asking 'Are you Sure to delete this item?' with 'Close' and 'Delete' buttons. The background shows a table of book records. A red box highlights the 'Delete' icons (trash can) in the table, with a red arrow pointing to them and the text 'Delete Book only for Admin'.

Name ID	Book Title	Author	Year	Price
1	Book 1	Author 1	2010	\$100.00
2	Book 2	Author 2	2011	\$150.00
3	Book 3	Author 3	2012	\$200.00
4	Book 4	Author 4	2013	\$250.00
5	Book 5	Author 5	2014	\$300.00