



American International University- Bangladesh

CSC 3215: Web Technologies

CO2 and CO4 Evaluation Finished Project Report Spring 2023-2024

Project Title: Library Management System
Section: F

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Introduction

This project addresses the critical need for an efficient and user-friendly Library Management System Web App. It encompasses functions like cataloging, circulation, acquisition, and user management, enhancing the efficiency of library processes. LMS facilitates tasks such as book tracking, inventory management, and user record maintenance, ultimately providing a cohesive system for librarians to manage resources and offer seamless services to patrons.

Background Study

During the background study, several reference websites were explored to gather insights and ideas for the proposed Library Management System Web App. Key websites include:

1. Library Management Systems:
 - Exploration: Investigated existing library management systems to understand key features such as user login, registration, dashboard, homepage, contact page, and user role management.
 - Reference Website: <https://www.rokomari.com/>
2. Library Resource Platforms and Blogs:
 - Study: Explored platforms providing comprehensive information on library resources, book cataloging, and related topics to enhance the content strategy for the library blog section.
 - Reference Website: <https://www.libraryjournal.com/>
3. User Engagement and Communication Tools:
 - Analysis: Studied websites that facilitate real-time communication between library staff and patrons, drawing inspiration for the implementation of interactive features, such as a chat functionality, to improve user engagement.
 - Reference Website: <https://libraryh3lp.com/>

These reference websites served as valuable sources for understanding system architecture, feature implementation, and user interface design, contributing to the informed development of Library management System.

Requirement Analysis:

1. User Category:

There are 2-types of Users here. They are:

- Admin
- User

2. Feature List:

In this project the “Admin” has the following features:

- Authentication
- Dashboard
- Profile
- Catalogue
- Book Management
- Newly Listed Books
- Trending Books
- Search



- Event
- Send Notification
- Account Settings
- Help & supports

In this project the “User” has the following features:

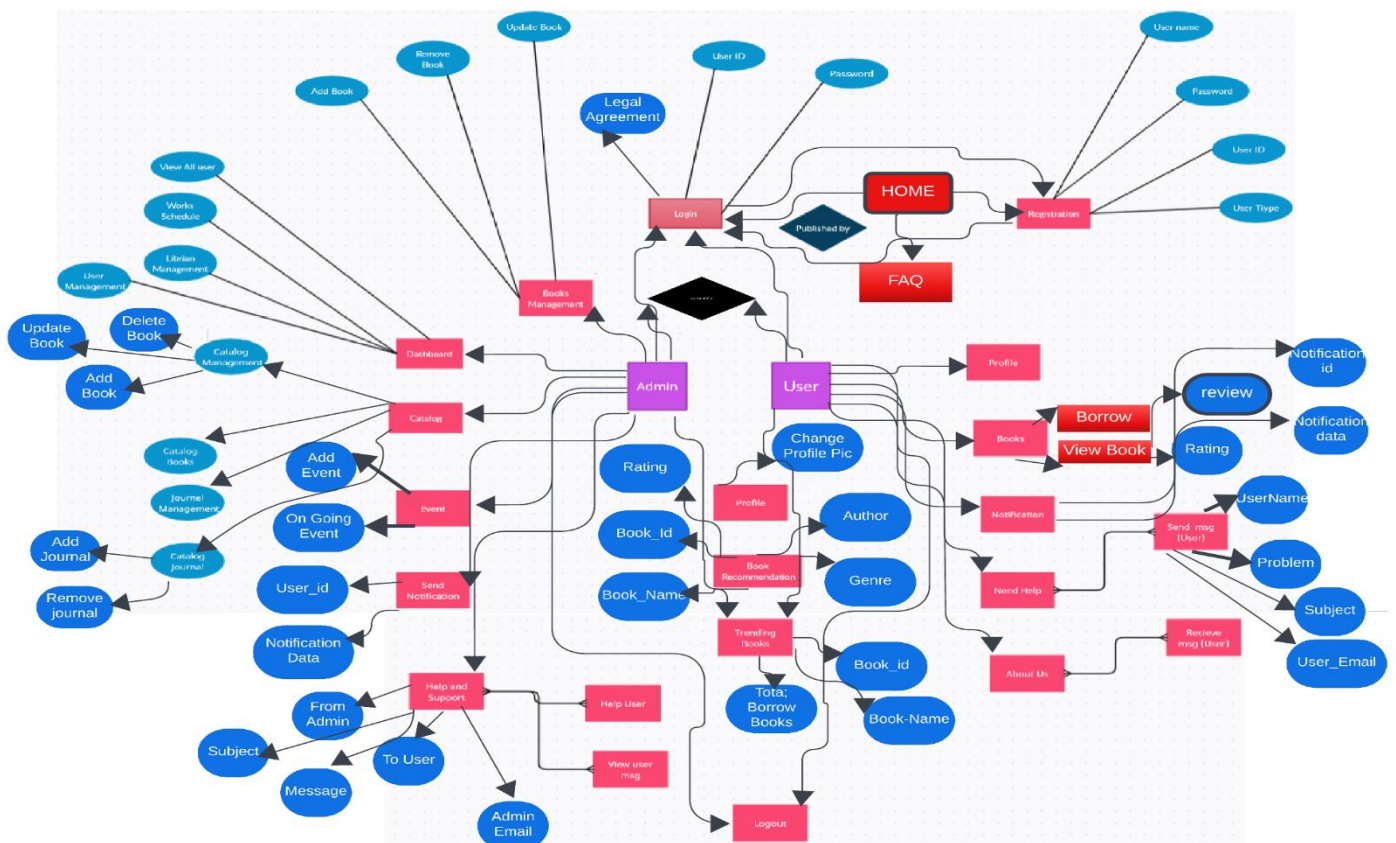
- Profile
- Recommend Books
- Trending Books
- Books
- Notification
- Need help
- Account Setting
- About Us

Tools used:

1. HTML
2. CSS
3. My SQL Server
4. PHP

ER Design:

LIBRARY MANAGEMENT SYSTEM



System Images against the Specification:

[Home](#) | [Login](#) | [Registration](#)

REGISTRATION

Id

:

Password

:

Confirm Password

:

Name

:

Email

:

Gender

☐ Male

☐ Female

☐ Other

Date of Birth

mm/dd/yyyy

User Type

USER

Sign Up

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Registration form

GUI Description: The user-friendly GUI prompts individuals to input personal details, select gender, and choose a user type (Admin or User). It enforces secure password creation and allows users to seamlessly register. The logical design enhances data integrity, ensuring a smooth registration process for the Library Management System Web App.

Logged in as || Jishad

Search Book

[Show All](#)

- [Liabrrarian Dashboard](#)
- [Profile](#)
- [Catalogue](#)
- [Search](#)
- [Event](#)
- [Account Settings](#)
- [Logout](#)

| Book ID | Book Name | Author | Catagory |
|---------|--------------------------------|---------------------|------------------------|
| 1 | To Kill a Mockingbird | Harper Lee | Classic Fiction |
| 2 | The way of bengal | Jishad | Literature |
| 3 | The Great Gatsby | F. Scott Fitzgerald | Classic Literature |
| 4 | 1984 | George Orwell | Dystopian Fiction |
| 5 | The Hitchhiker's Guide to the | Douglas Adams | Science Fiction/Comedy |
| 6 | The Da Vinci Code | Dan Brown | Mystery/Thriller |
| 7 | The Girl with the Dragon Tatto | Stieg Larsson | Crime Fiction |
| 8 | Sapiens: A Brief History of Hu | Yuval Noah Harari | Non-Fiction/History |
| 9 | Educated | Tara Westover | Memoir |
| 10 | The way of bengal | Jishad | Horror |
| 23 | The way of bengal | Jishad | fiction |

Search Page

Gui description: Effortlessly find books on library management system. Enter the Book Name , filter by category or author, and click "Search" or "Filter" for quick, tailored results. Streamlined and user- friendly for efficient book discovery.



View Users Messege

| Name | Email | Subject | Messege |
|----------|----------------------|--------------------|-------------------------------|
| Brinta | brinta22@gmail.com | Payment | Payissue |
| Devdoot | devdoot33@gmail.com | Card | Card issue |
| Kamal | kamal44@gmail.com | GG | PP |
| Menon | menon44@gmail.com | MM | PP |
| Hlaching | hlaching22@gmail.com | Purchase issue | Book purchase problem |
| DB | db22@gmail.com | Registration Issue | I cant register to my account |
| Masum | masum44@gmail.com | Login Issue | I cant log into my account |
| Jishad | jahidu@gmail.com | Faq | i cant see you |
| Jishad | hghh@gmail.com | faqs | i cant see faq page |
| Jishad | jjsjja@gmmal.com | hhdhshd | jjsjsjd |
| Brinta | brinta22@gmail.com | Card | My payment is not worked |
| Qashim | qashim22@gmail.com | Server issue | Server Problem |

Help and Contact User

From (Admin):

To (User):

Admin email:

Subject:

Message:

[Go Home](#)

*****Welcome to Help and Support*****

****NEED HELP!!!****

****Choose what you want****

[Send Messege](#)
[Received Messege](#)

[Go Home](#)

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Help & Support

GUI Description: In the Help and Support Section, a user can send their specific problem to the admin through the "Send Message" section, and the user's messages are displayed in the "View Message from User" table when an admin logs into their profile. The admin also provides support by sending messages, which will be shown in the user's "Received Message" section.



American International University-Bangladesh (AIUB)

| Librian Details | | | | | |
|-----------------|--------------|----------------------|----------------|---------------|---|
| Librian ID | Librian Name | Librian Email | Contact Number | Assigned Role | |
| 1 | Kamal | kamal@gmail.com | 1884647332 | Senior | Update Remove Add Librian |
| 2 | Morgan | morgan33@gmail.com | 1884647332 | junior | Update Remove Add Librian |
| 3 | Rashed | rashed2@gmail.com | 1889754875 | Junior | Update Remove Add Librian |
| 4 | Samia | samia22@gmail.com | 1882345623 | Junior | Update Remove Add Librian |
| 5 | Sumanta | sumanta@gmail.com | 1634256200 | Senior | Update Remove Add Librian |
| 6 | Tasin | Tasin@gmail.com | 1785987633 | Junior | Update Remove Add Librian |
| 7 | Faria | faria88@gmail.com | 1827363461 | Junior | Update Remove Add Librian |
| 8 | Toyabur | toyabur19@gmail.com | 1883954565 | Senior | Update Remove Add Librian |
| 9 | Mojumdar | mojumdar29@gmail.com | 1889764512 | Junior | Update Remove Add Librian |
| 10 | Pritam | pritam87@gmail.com | 1711264595 | Junior | Update Remove Add Librian |
| 15 | sadasdd | asdsad@gmail.com | 17728383 | Junior | Update Remove Add Librian |
| 16 | sadasdd | asdsad@gmail.com | 17728383 | Junior | Update Remove Add Librian |
| 17 | GG | gg32@gmail.com | 1883456323 | Junior | Update Remove Add Librian |
| 18 | seccs | sfsd@gmail.com | 1889456575 | Senior | Update Remove Add Librian |
| 19 | edf | dfdfdf@gmail.com | 2147483647 | Junior | Update Remove Add Librian |
| 20 | Marma | seccs@gmail.com | 177123453 | Junior | Update Remove Add Librian |
| 21 | Tirho | tirho47@gmail.com | 1773253634 | Junior | Update Remove Add Librian |
| 29 | jijhghg | fgfggfg@gmail.com | 2147483647 | Junior | Update Remove Add Librian |

Crud Operation

GUI Description: Librarian details are essentially the CRUD operations of library management, where a librarian can be read, added, viewed, or deleted from the table. The table describes the librarian's ID, librarian name, email, contact number, and assigned role.





Book Name :-Shah_Sujar_Guptodon

Author :--Saumen_Saha

Genre :-history

RATING & REVIEW

Book_ID :

User_Name :

Rating

Write a review

Review & Ratings

GUI Description: Book review and rating section for library management system, user enter book ID , user name and rating and write a review description for the specific book.



Notification Alert!

| User_ID | User Name | Due Date | Status | Action |
|---------|--------------|------------|------------|-------------------------|
| user003 | Punam Das | 2023-11-09 | Not Return | ALERT ! |
| user034 | Avishak saha | 2023-11-08 | Not Return | ALERT ! |
| user046 | Marma | 2023-11-23 | Borrowed | ALERT ! |
| user080 | Adityo Das | 2023-11-08 | Returned | ALERT ! |
| user088 | Alok dhor | 2023-11-10 | Not Return | ALERT ! |

User_ID :
Notification_DATA :

SEND

Notification

GUI Description: In alert notification, admin send alert notification to the user if any user return the book or not returned. admin input as user ID and notification data and send it to the specific user.

Impact of this Project

The Library Management System Web Tech Project introduces a transformative shift in library operations, significantly improving accessibility and efficiency for both staff and patrons. Through the seamless integration of user-friendly interfaces, the project streamlines book search and borrowing processes, offering a more satisfying experience for library users. Automation of manual tasks such as cataloging and transaction management not only reduces the workload on library staff but also minimizes errors. Administrators benefit from data-driven decision-making, gaining insights through detailed reports and analytics. This empowerment extends to librarians who enjoy enhanced control over inventory management. Ultimately, the project fosters a user-centric approach, contributing to improved patron services, community engagement, and the overall modernization of library management systems.



Limitations and Possible Future Improvements:

The Library Management System Web Tech Project, while promising, may encounter limitations in certain areas that warrant consideration for future enhancements. One potential constraint lies in the depth of analytical capabilities, prompting the need for advanced analytics features to gain deeper insights into library usage patterns and resource popularity. Additionally, integration with external systems, such as educational institutions or community databases, could enhance the system's scope and utility.

Future improvements for the project may involve the implementation of predictive analytics to optimize book inventory management, allowing libraries to anticipate user demands more effectively. Integration with emerging technologies like artificial intelligence could provide valuable insights into reading trends and user preferences, contributing to a more tailored and responsive library experience. Furthermore, the introduction of features that allow users to personalize their interface settings can contribute to a more individualized and enjoyable interaction with the library system.

| CO2 and CO4 Evaluation: Project Report Evaluation | | | | | |
|---|-------------------|----------------------------------|---------------------------------|-------------------|---------------|
| Completeness (5) | Validation (5) | Feature Implementation (5) | Concept Understanding (5) | Promptness (5) | Total (25) |
| | | | | | |

