Khulna University of Engineering & Technology, Khulna

Department of Electronics and Communication Engineering

Course No: CSE 3100

Course Title: Internet Programming Laboratory

Project Title: E-Library Management

Submitted To:	Submitted By:
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Objectives:

- ❖ To learn *HTML* and *CSS*
- ❖ To learn *C#* and *SQL*
- ❖ Familiarization with *Microsoft Visual Studio* and *Microsoft SQL Server*
- ❖ To aim to design a website using above mentioned language.

Software Requirements:

1. MS Visual Studio
2. MS SQL Server
3. SQL Server Management Studio
4. MS EDGE or Google Chrome

Framework/ Library Requirements:

1. Bootstrap
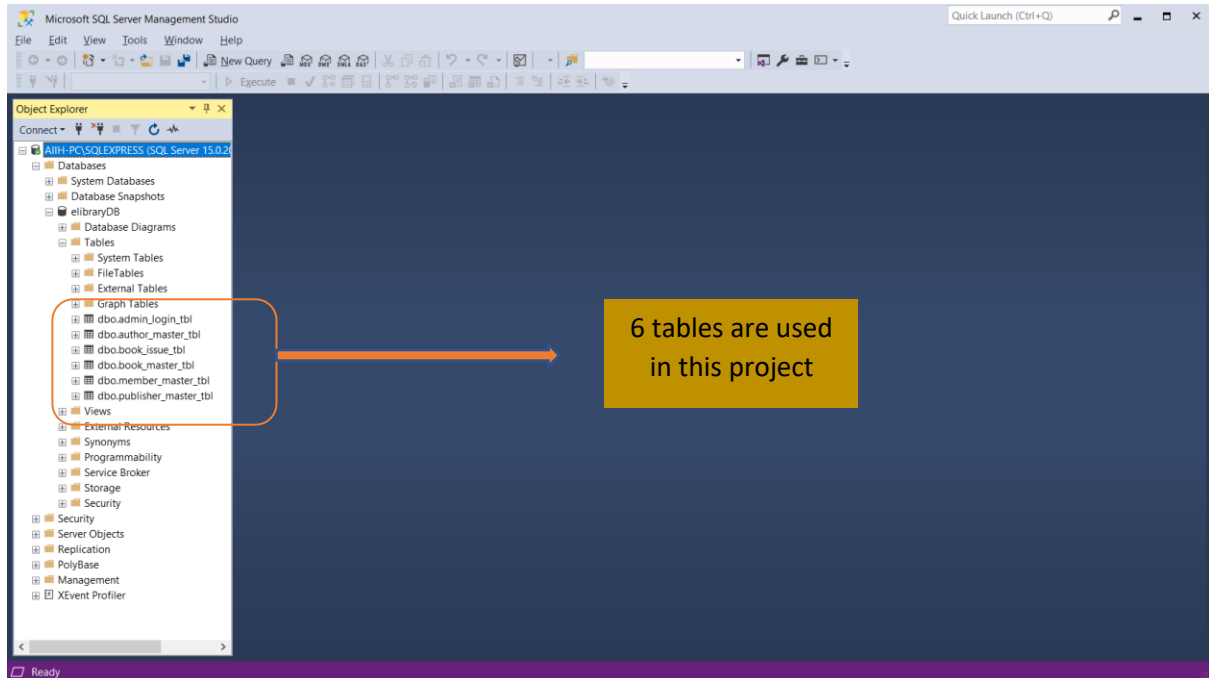2. Font-awesome
3. Data-tables

Features:

A. Users
1. Sign Up
2. Login
3. Sign Out
4. Session
5. Cookie
6. Overdue Date

B. Admin User
1. Admin Login
2. Admin Logout
3. Author Management
4. Publisher Management
5. Book Inventory
6. Book Issuing
7. Member Management

Database:

I have used *MS SQL Server* for this project. I have created 6 tables.

admin_login_tbl (username, password, full_name)

author_master_tbl (author_id, author_name)

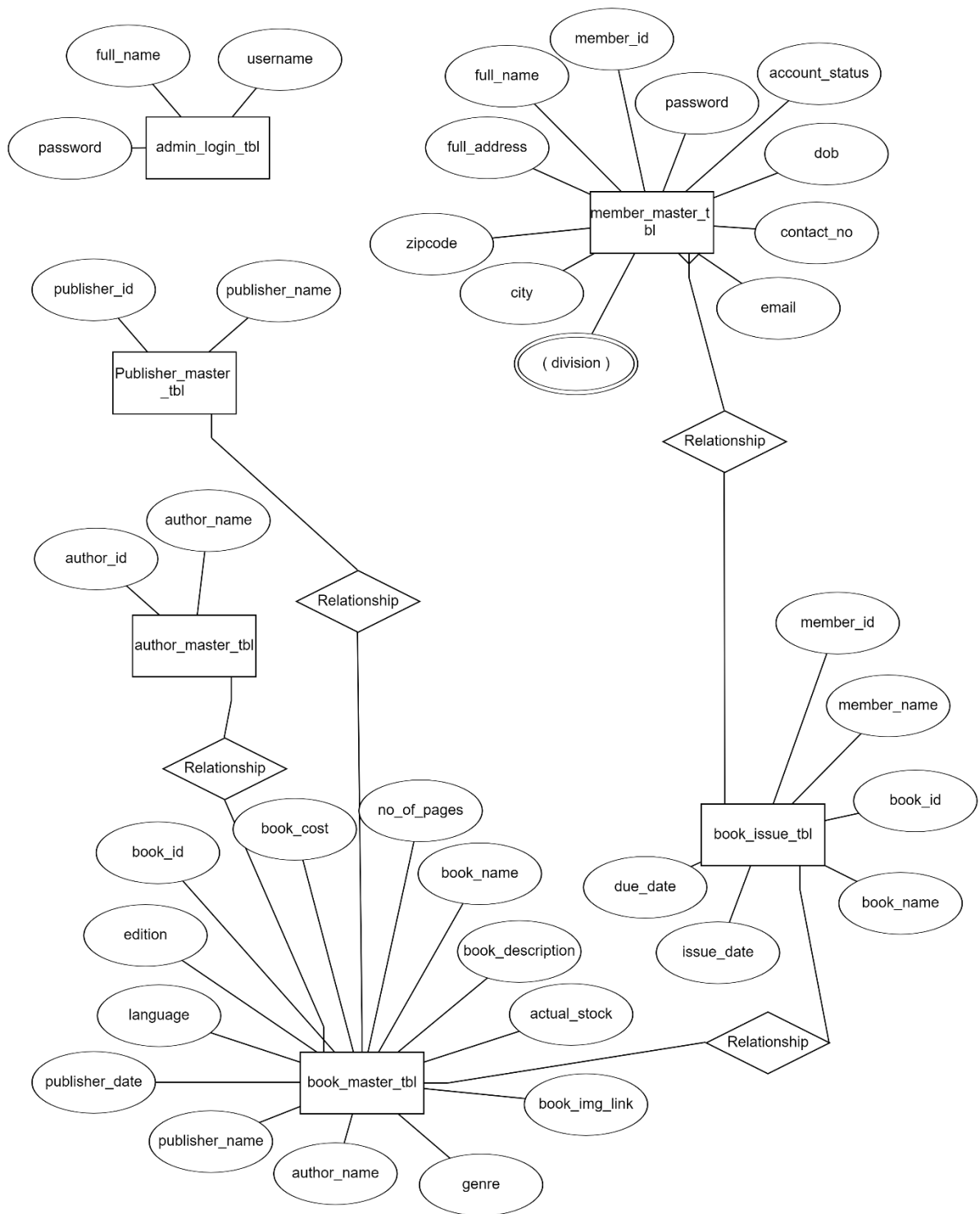**book_issue_tbl** (member_id, member_name, book_id, book_name, issue_date, due_date)

book_master_tbl (book_id, book_name, genre, author_name, publisher_name, publish_date, language, edition, book_cost, no_of_pages, book_description, actual_stock, book_img_link)

member_master_tbl (full_name, dob, contact_no, email, division, city, zipcode, full_address, member_id, password, account_status)

publisher_master_tbl (publisher_id, publisher_name)

ER Diagrams:

admin_login_tbl
- full_name
- username
- password

member_master_tbl
- member_id
- full_name
- password
- account_status
- full_address
- dob
- zipcode
- contact_no
- city
- email
- (division)

Publisher_master_tbl
- publisher_id
- publisher_name

author_master_tbl
- author_name
- author_id

book_master_tbl
- no_of_pages
- book_cost
- book_id
- book_name
- edition
- book_description
- language
- actual_stock
- publisher_date
- book_img_link
- publisher_name
- author_name
- genre

book_issue_tbl
- member_id
- member_name
- book_id
- book_name
- due_date
- issue_date

Relationship (member_master_tbl — book_issue_tbl)
Relationship (Publisher_master_tbl — book_master_tbl)
Relationship (author_master_tbl — book_master_tbl)
Relationship (book_issue_tbl — book_master_tbl)

Functionality:

Homepage

The *homepage* has hyperlink for new member to *Sign Up* and registered member to *User Login,* and *Admin Login* for admin user/s. All member can view the library book via *View Books.*
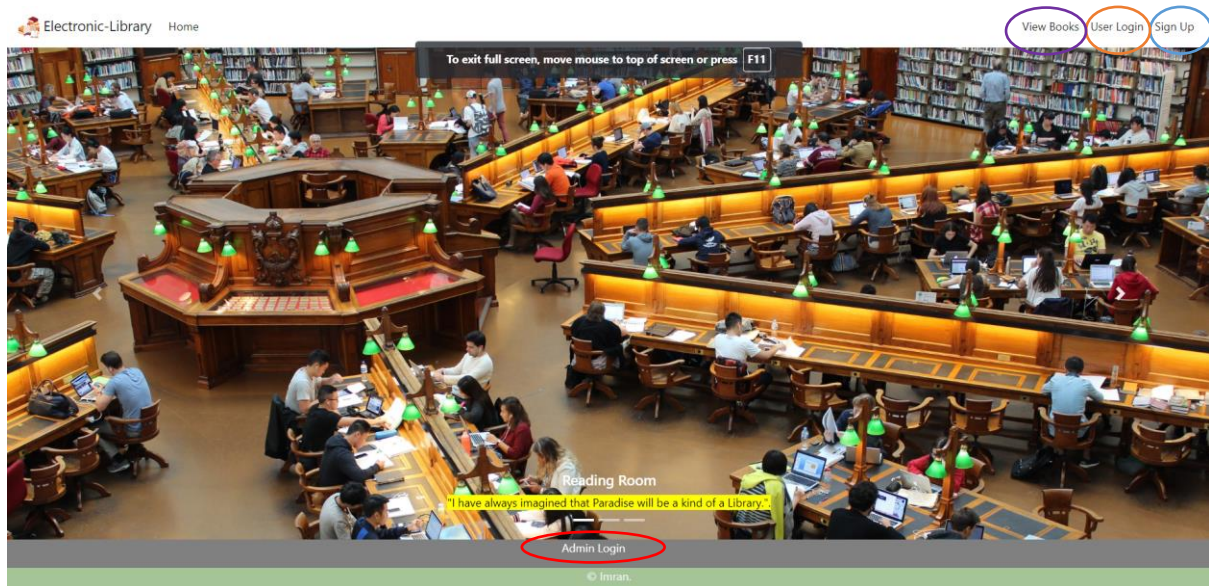
figure 1.1: homepage

Sign Up
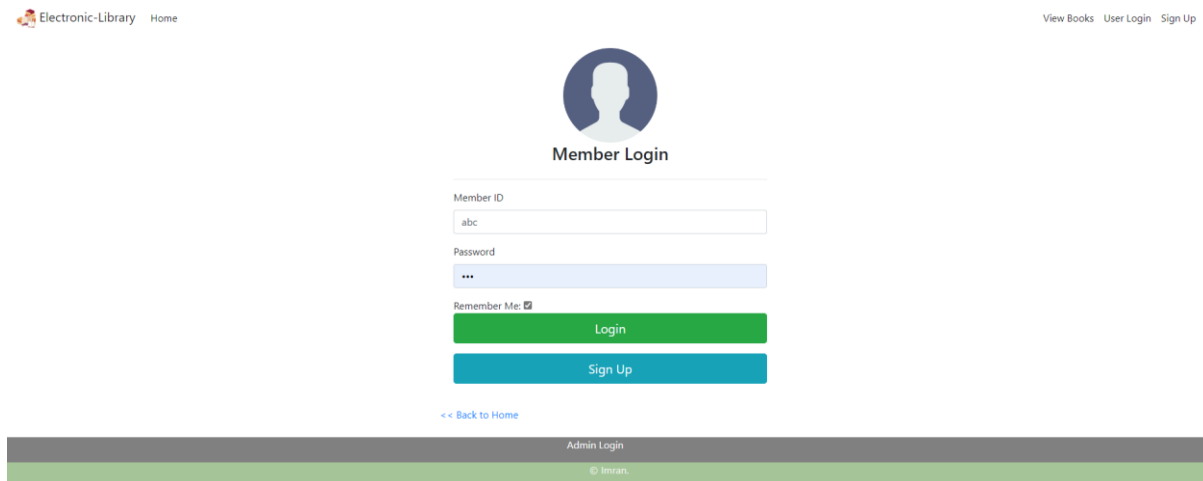
New member must be *signup* for renting the book from the library.

Figure 1.2: signup page

User Login

While login if *Remember Me* checkbox is checked, **member_id** and **password** is saved to your browser for 2 days.

figure 1.4: user login page

User-Signed Homepage

When a member *login* successfully, *sign in* and *sign up* button going to disappear. Profile view i. e. *Hello xyz* and *Logout* button are appeared.
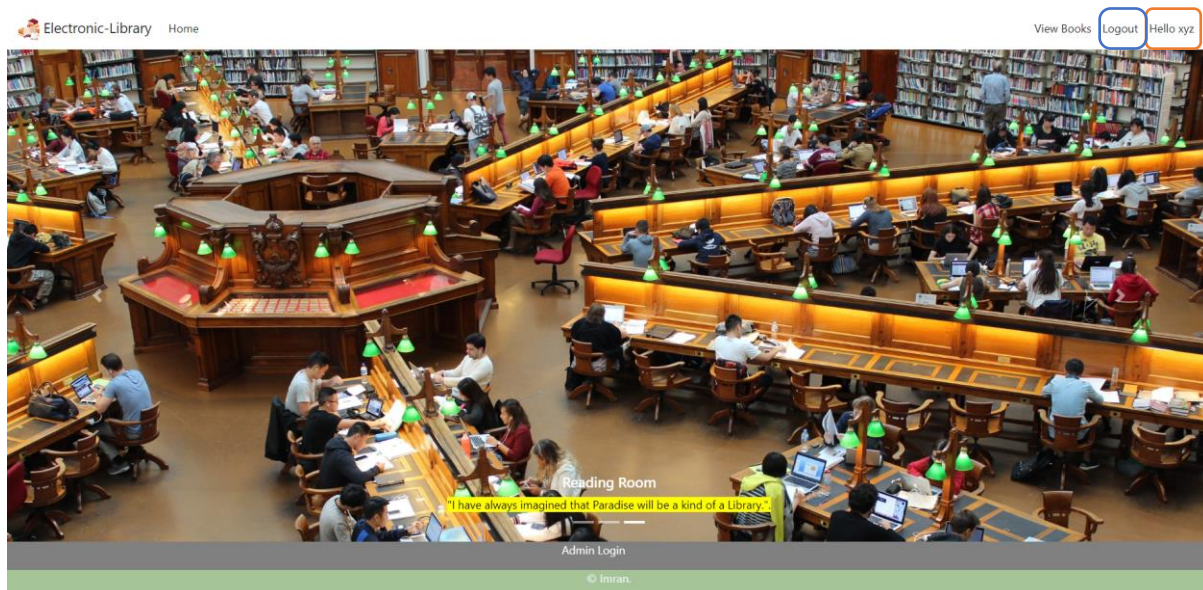
figure 1.5: user signed homepage

User Profile

Profile details can be updated and issued book can be viewed here.

figure 1.6: user profile page

Admin Login

figure 1.7: admin login page

Admin Signed Homepage

When the admin *login* successfully, *Admin Login, sign in* and *sign up* button going to disappear. *Hello Admin* and *Logout* button are appeared.

The other admin features are appeared i.e. *Author Management*, *Publisher Management*, *Book Inventory*, *Book Issuing*, *Member Management.*
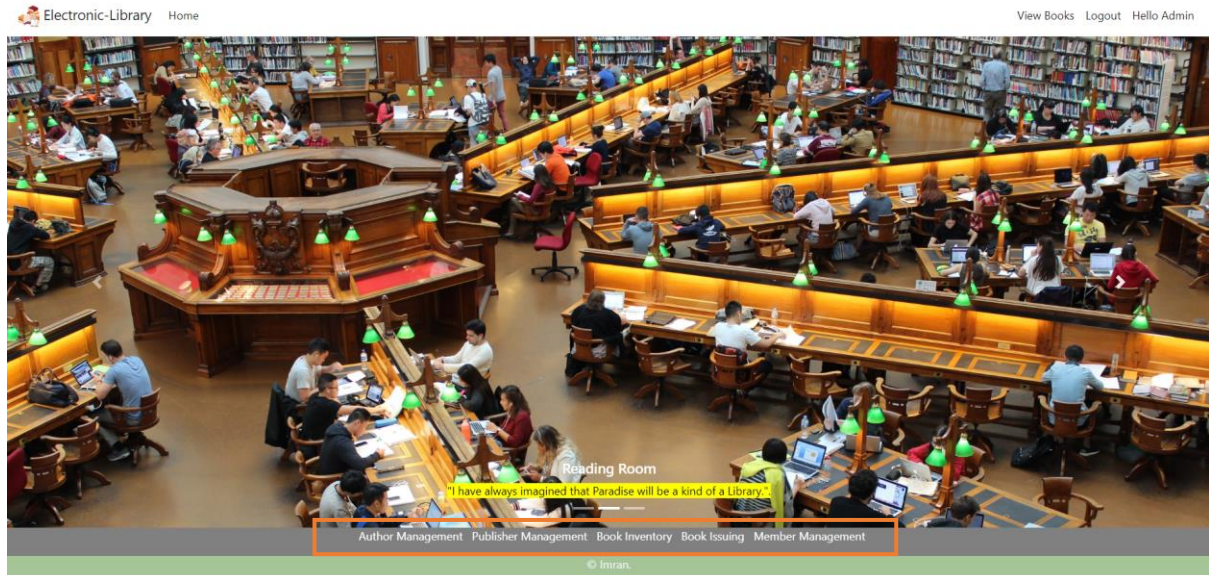
figure 1.8: admin signed homepage

Author Management

The author's name can be added, updated or removed.
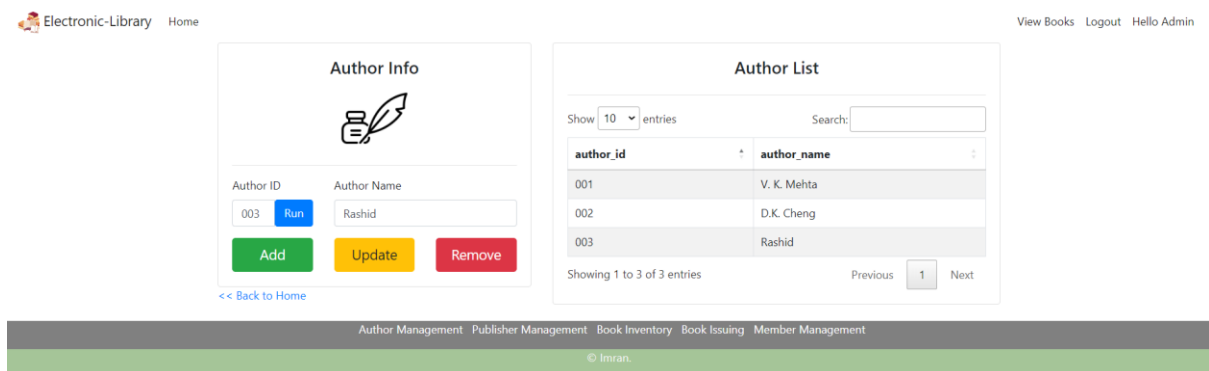
figure 1.9: author management page

Publisher Management

The book publisher name can be added, updated or removed.

figure 1.10: publisher management page

Book Inventory

Book's details can be added, updated or removed.

figure 1.11: book inventory page

Book Issuing

To issue a book, member id and book id needed.

figure 1.12: book issuing page

Member Management

Member status can be updated to (pending, active, disable) or member can be removed permanently from database.

figure 1.13: member management page

Conclusion:

I have designed the website this way.

Reference:

1. ASP Tutorial (w3schools.com)
2. ASP.NET Tutorial for Beginners: Learn .NET Basics in 3 Days (guru99.com)
3. C# Tutorial for Beginners: Learn C Sharp Programming in 7 Days (guru99.com)
4. (16) Coder Baba - YouTube