North South University

Department of Electrical & Computer Engineering (ECE)

Project Report

Course Code: CSE311.L

Section: 1

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Students Club Management System

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Students Club Management System

Introduction

The Student Management System is a web-based application designed to streamline and automate the management of student-related data for educational institutions. This project integrates SQL for robust database management, HTML for structuring the user interface, and CSS for enhancing the visual appeal and responsiveness of the application. The system aims to provide an efficient, user-friendly platform for administrators, teachers, and students to seamlessly manage and access critical information such as student records, attendance, grades, and course details.

Scope

The Centralized Student Club Management System facilitates student registration, membership recruitment, event organization, member tracking etc. Students register for clubs (one-to-many relationships) and can participate in many club events (many-to-many). Events are linked to clubs and members (ternary relationship) . The system supports composite attributes such as member full name (first, middle, last), multivalued attributes such as member mobile, and derived attributes like age. The club structure follows generalization/specialization, where a user member may be further classified as a club lead or general member. Also, there is a role of leads as executive members Later, we used a ternary relationship between user, club, and recruitment.

Entities

Strong Entities

- Member - login page
- Club - entity representing student clubs
- Club Leads - club lead login page, where leads can oversee things
- General Members - another login page, where they will only be able to see the club tasks
- Club Events - Stores details of scheduled club activities.
- Recruitment - Used in recruiting students
- Club Registration - Tracks registration
- Club Membership - tracks membership details.
- Task- general member can use it to track their tasks

Weak Entities

- Member Records- it records the data of club membership if there member is added

Final ERD
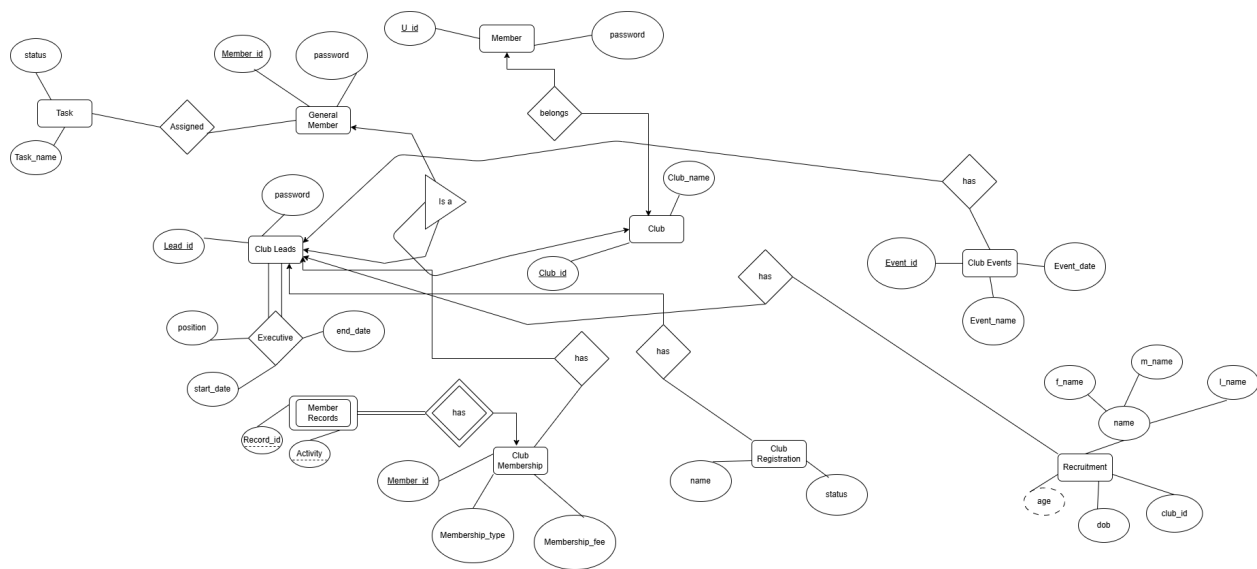
Relationships and ERD Concepts

1. One to One Relationship-

- Member with Club: Member can sign in for a club only

2. One to Many Relationship-

- Club Leads with Club Membership: One user track about many memberships
- Club Leads with Club Events: A club lead can track many club events
- Club Leads with Recruitment: A club can recruit many.
- Club Leads with Club Registration: Each club has a single registration records

3. Many to Many Relationship-

- General Member with Task: The member can track many kind of tasks

4. Generalization Relationship-

- Club, General Member, Club Leads. There is a specialized connection between the Club and its subclasses.

5. Role-

- Club Leads will also play a role as an executive member

Composite Attributes:

- Recruitment: Name(f_name,m_name,l_name)

Multivalued Attributes:

- Recruitment: Mobile

Derived Attributes:

- Recruitment: Age(Will be derived from dob)

Schema

Member (**U-id**, password)

Club (**Club-id**, Club_name, **U_id**)

Club Leads (**Lead_id**,Password, **Club_id**)

Executive Members (**Club_id,Lead_id,position**,start_date,end_date)

General Member (**Member_id**, password, **Club_id**)

Club Events (**Event_id**, Event_date, Event Name, **Lead_id**)

Participate (**U-id, Event_id**)

Recruitment (**new_club_id**, f_name, m_name, l_name, dob, **Lead_id**)

Recruitment_mobile (**mobile**)

Club Registration (Reg_date, Status, **Lead_id**)

Member Records (**Record_id, Activity, Lead_id**)

Club Membership (**Member_id,** Membership type, Membership Fee, **Lead_id**)

Task(name, status)

Assigned(**member_id**)

SQL DDL

The Centralized Student Club Management System employs a MySQL relational database to manage user authentication, club operations, event scheduling, and membership tracking. The database schema consists of ten tables that support core functionalities, such as user login (member table), club management (club), and event planning (club_events).

- Member: Stores user credentials (U_id, password) for login, integrated with the system's login form.
- Club: Manages club information (club_id, club_name).
- club_events: Schedules events (Event_id, Event_name, Event_date).
- club_leads and general_member: Handle credentials for leaders and members.
- Executive: Tracks leadership roles (Position, Name, Start_date, End_date).
- club_membership, club_registration, member_records, recruitment: Support membership fees, registration status, member activities, and recruitment details.

Functionalities

Password for different pages

For Central Login

              Id- 123 and password- 123

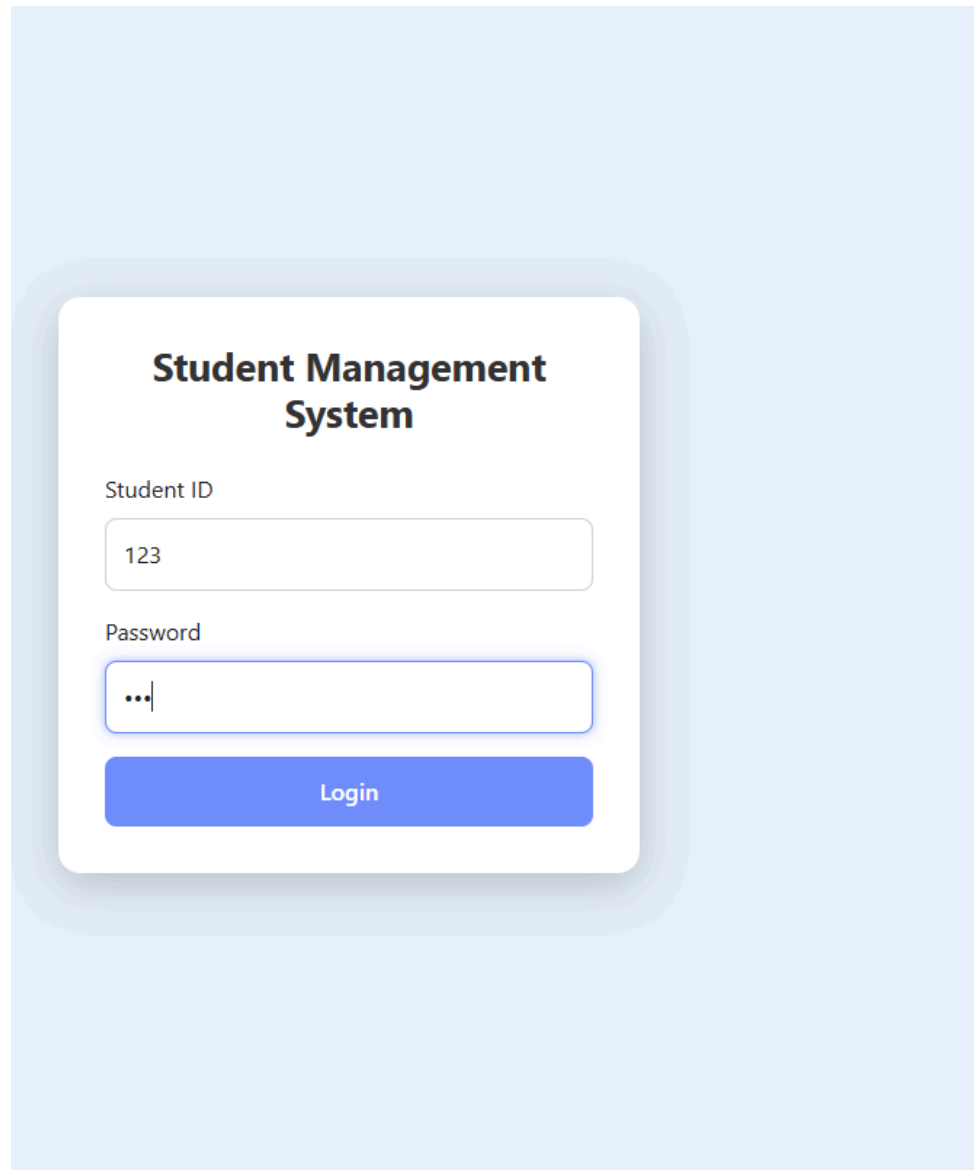For General Member login

              Id- member123 and password- pass456

For Club Leads login

Id- 1 and password- ABC

Procedure

1. At first, you have to log in centrally, where ID and pass are 123. If the password or ID does not match, it shows an error

Student Management System

Invalid Student ID or Password!

Student ID

Please fill out this field.

Password

Login

2. It then logs into another dashboard, where there are club and It's IDs are available. One can also add clubs there

Welcome, Student

Select Your Club

-- Choose a Club --   ⌄

☐ I am a Club Lead

Proceed

Add a New Club

Club Name

[   ]

Add Club

Available Clubs

Club ID	Club Name
1	Robotics Club
2	Social Service Club
3	Game Club

Logout

April 12, 2025 at 12:04:59 PM

Welcome, Student

Select Your Club

-- Choose a Club --   ⌄

☐   I am a Club Lead

Proceed

Add a New Club

Club Name

Add Club

Club 'ACM' added successfully!

Available Clubs

Club ID	Club Name
1	Robotics Club
2	Social Service Club
3	Game Club
4	ACM

Logout

3. A person can log in from this interface as a general member or club lead. If the check box is not clicked, one will log in as a general member, where we will need to log in as a general member by providing a password and ID.Password will be- pass456 and ID will be- member123

Welcome, Student

Select Your Club

4 - ACM ⌄

☐ I am a Club Lead

Proceed

Add a New Club

Club Name

Add Club

Available Clubs

Club ID	Club Name
1	Robotics Club
2	Social Service Club
3	Game Club
4	ACM

Logout

April 12, 2025 at 12:08:16 PM

Member Login

Club: ACM

Member ID

member123

Password

••••••

4. A general member will be able to rack their task only

Task Options

Club: ACM

Task Name

Logistic

Serial Number (SL)

2

Status

Completed ⌄

Add Task

Your Tasks

SL: 1
Task: Data Entry
Status: Pending

Task Options

Club: ACM

Task added successfully!

Task Name

Serial Number (SL)

Status

Pending ⌄

Add Task

Your Tasks

SL: 1
Task: Data Entry
Status: Pending

SL: 2
Task: Logistic
Status: Completed

5. Club leads will get access to many more features, like general members needing to log in again. ID- 1, password- ABC

Welcome, Student

Select Your Club

4 - ACM ▾

☑ I am a Club Lead

Proceed

Add a New Club

Club Name

Add Club

Available Clubs

Club ID	Club Name
1	Robotics Club
2	Social Service Club
3	Game Club
4	ACM

Logout

April 12, 2025 at 12:12:19 PM

Club Lead Login

Lead ID

1

Password

•••|

Login

April 12, 2025 at 12:13:42 PM

6. They will get access to these features

Club Lead Menu

Executive

Club Registration

Recruitment

Club Membership

Member Record

Club Events

Logout

April 12, 2025 at 12:14:27 PM
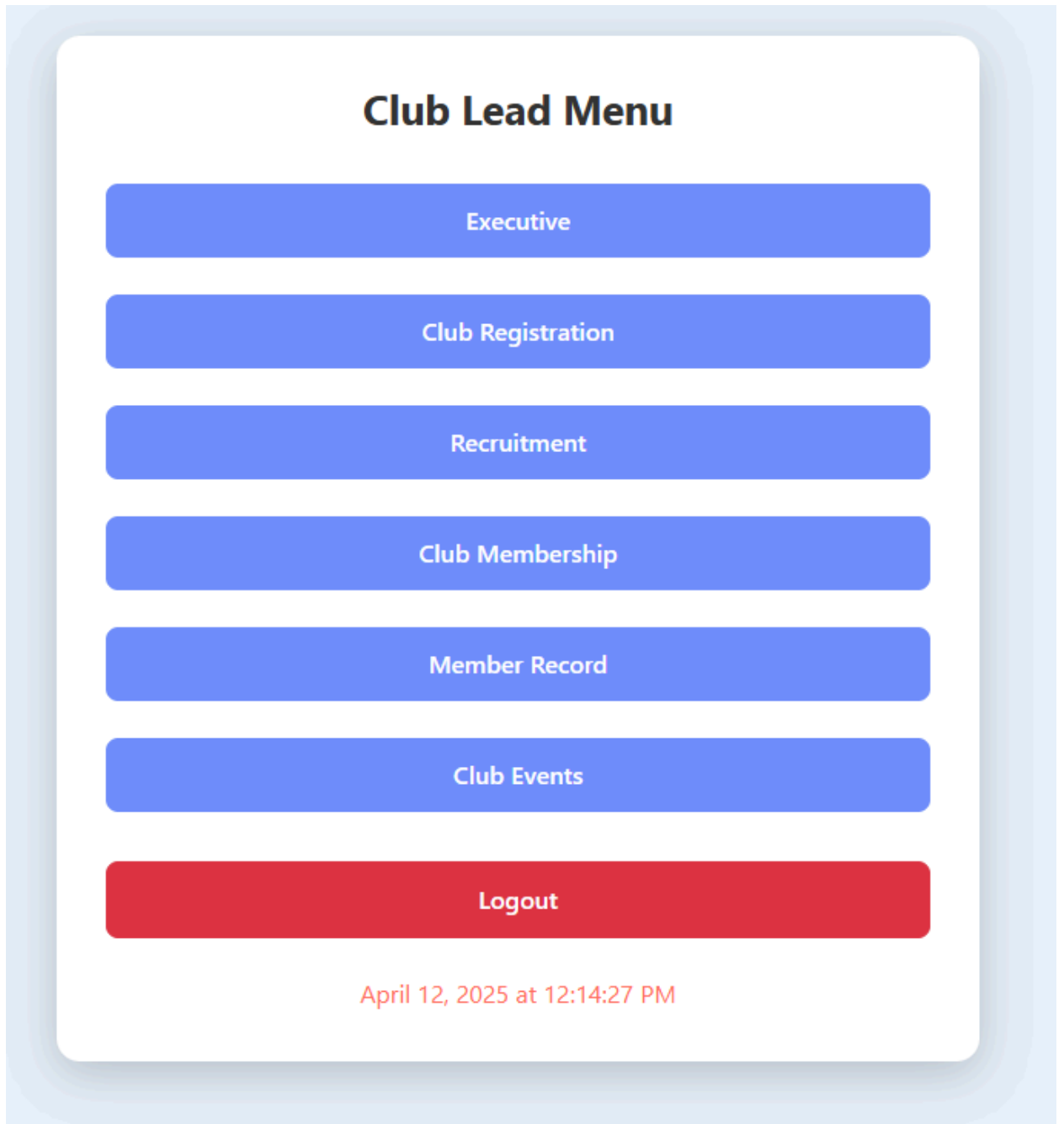
7. Executives are given there, later more executives can also be added

Executive Committee

| Chair | Name: Fahim
Term Start: 2025-01-01
Term End: 2025-12-31 | Remove |

| Vice Chair | Name: Omar
Term Start: 2025-01-01
Term End: 2025-12-31 | Remove |

| Secretary | Name: Sadman
Term Start: 2025-01-01
Term End: 2025-12-31 | Remove |

| Treasurer | Name: Salim
Term Start: 2025-01-01
Term End: 2025-12-31 | Remove |

| Webmaster | Name: Asif
Term Start: 2025-01-01
Term End: 2025-12-31 | Remove |

Add New Executive

Position

e.g., Chair

Term End: 2025-12-31

Add New Executive

Position

e.g., Chair

Name

e.g., John Doe

Term Start Date

mm/dd/yyyy

Term End Date

mm/dd/yyyy

Add Executive

Logout

8. Club registration there are given to members, who are in pending or selected for registration

Club Registration

Name: Karim Rahim Sami

Date of Birth: 1998-05-15

Age: 26

Club ID: 1

[Selected ▾] [Update]

Name: Siam Ahmed Siam

Date of Birth: 2000-09-22

Age: 24

Club ID: 2

[Pending ▾] [Update]

Name: Sakib al Hasan

Date of Birth: 1997-12-03

Age: 27

Club ID: 3

[Pending ▾] [Update]

Name: Md SK Rasel

Date of Birth: 1999-03-10

Age: 26

Club ID: 1

[Pending ▾] [Update]

Name: Md Abdur Rahim

Date of Birth: 2001-07-28

Age: 23

Club ID: 2

[Pending ▾] [Update]

9. Recruitment is used to recruit new member with their personal details, we can recruit new member and save them

Recruitment

SL	First Name	Middle Name	Last Name	Birthday (DOB)	Age	Club ID	Mobile
1	Karim	Rahim	Sami	1998-05-15	26	1	+8801712345678, +8801715938093
2	Siam	Ahmed	Siam	2000-09-22	24	2	+8801812345678
3	New	Member	Test	1995-01-01	30	3	+8801711111111, +8801722222222

Add New Member

First Name

First Name

Middle Name

Middle Name

Last Name

Last Name

Birthday (Date of Birth)

mm/dd/yyyy

Format: YYYY-MM-DD (e.g., 1998-05-15)

Mobile Number 1 (Required)

e.g., +8801234567890

Mobile Number 2 (Optional)

e.g., +8801234567890

Mobile Number 3 (Optional)

e.g., +8801234567890

Club ID

Select Club ID

Recruit Member   Save Member

10. Here we keep track about membership, only updated memberships in club membership are also viewed from member records option. From meber record record we can track his activity as moderate, active, or inactive.

Club Membership

Record ID: 1
Club ID: 1
Membership Amount: 500

Half Yearly ▾ | Update

Record ID: 2
Club ID: 4
Membership Amount: 500

Yearly ▾ | Update

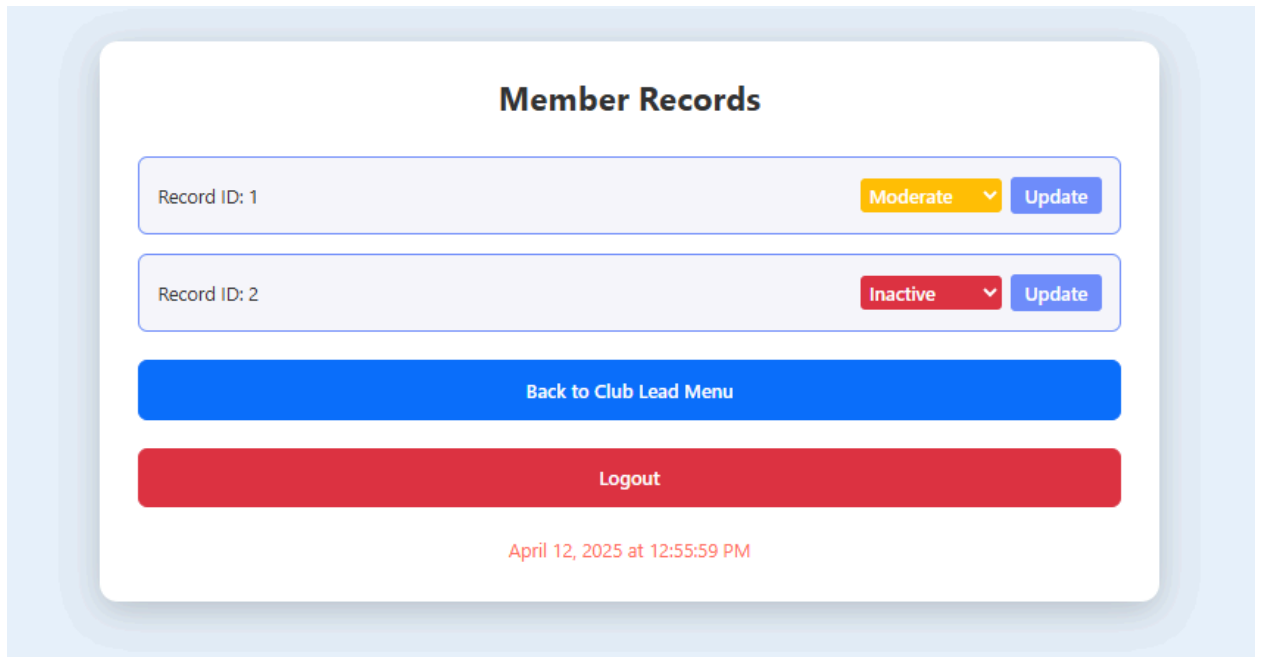Enter SL | Yearly ▾ | 500 ▾ | Add Member

Total Members: 2

Total Money: 1000

View Member Records

Back to Club Lead Menu

Logout

April 12, 2025 at 12:55:01 PM

Technology Used-

1.Html

2.CSS

3. Bootstrap

4.Php

5.Sql

11. Lastly, we can add or delete any club event from this interface

Hosting Information

We have hosted it in our local host with http://localhost/Project/Index.php on our computer

Conclusion

By guaranteeing smooth club registration, event planning, and financial monitoring, the Centralized Student Club Management System streamlines the administration of student organizations. The system guarantees flexibility and scalability by utilizing database design principles, including relationships, strong and weak entities, and role-based specialization. Students will have a more structured and welcoming club experience due to future integration, which will improve engagement and operational efficiency.