

PROJECT REPORT

On

CLUB MANAGEMENT SYSTEM

**Presented in partial fulfillment of the requirements
for the completion of the Database Management
System (2CS505) project**



at

Institute of Technology, Nirma University

I. Introduction

Project Overview

This project aims to develop a Club Management System which manages all the clubs. The Club Management System is a web-based application designed to streamline and automate various administrative tasks related to managing clubs and organizations within a institution. It provides a centralized platform for club administrators, members, and interested individuals to interact, organize events, and manage club-related activities efficiently.

II. Technologies Used

Frontend Technologies

JAVASCRIPT :

- Adds interactivity to the system.
- Performs form validation and dynamic content loading.
- Handles asynchronous requests with AJAX.
- Manipulates the DOM for dynamic updates.
- Enhances user experience with animations and effects.

HTML and CSS :

- HTML Provides structure to web pages.
- Utilizes Uses semantic elements for accessibility and SEO.
- Hyperlinks for navigation.
- CSS Embeds multimedia content for visual appeal.
- Styles HTML elements for visual presentation.
- Implements responsive design for different devices.
- Utilizes Flexbox and Grid for layout control.
- Adds animations and transitions for user engagement.



Backend Technologies

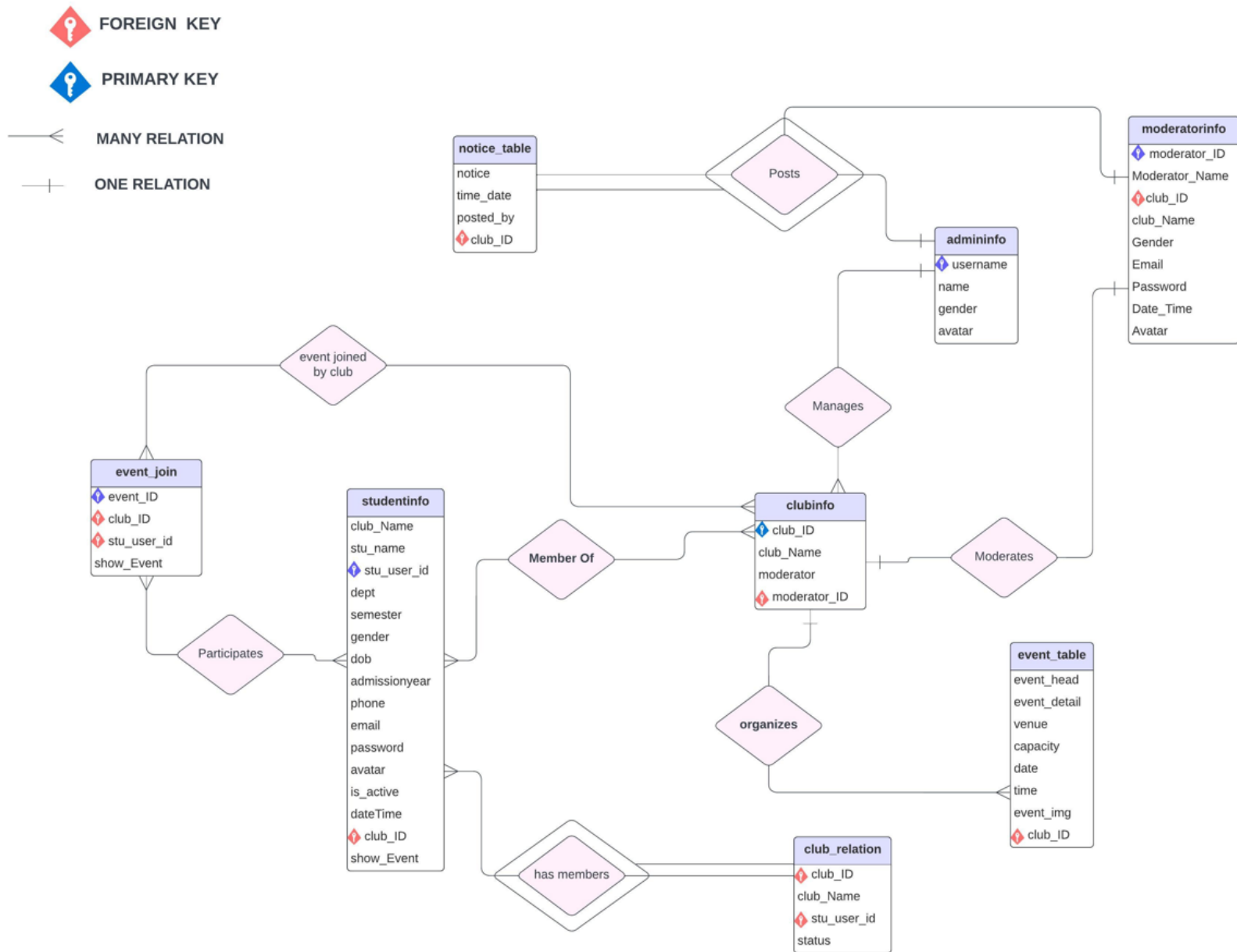
PHP

- **Logic Handling:** PHP manages server-side logic.
- **Authentication:** Handles user login and registration securely.
- **Database Operations:** Performs CRUD on club data.
- **Session Management:** Maintains user sessions.
- **Form Processing:** Secures form submissions.
- **Dynamic Content:** Generates HTML content dynamically.

III. Database

We have used MySQL database for our project.

ER DIAGRAM:



- Tables:

1. admininfo (username, name ,gender, avatar)

2. club_table (club_id, club_name, moderator, moderator_id, stu_user_id, status, moderator_name, gender, email, password, date, time, avatar)

3. eventjoin (event_id, club_id, joined_member_id, show_event)

4. eventtable (eventhead, eventdetail, venue, capacity, date, time, event_img, club_id)

5. noticetable (notice, time_date, posted_by, club_id)

6. studentinfo (club_name, stu_name, stu_user_id, dept, gender, semester, dob, admissionyear, phone, email, password, avatar, is_active, date_time, club_id, show_event)

- Functinal Dependencies:

Admininfo:

- Functional Dependencies:
username \rightarrow name, gender, avatar
- Candidate Key:
{username}

Club_table:

- Functional Dependencies:
moderator_id \rightarrow moderator_name, club_id, club_name, gender, email, password, date, time, avatar
club_id \rightarrow club_name, moderator, moderator_id, stu_user_id, status
- Candidate Keys:
{club_id, moderator_id}

Event_join:

- Functional Dependencies:
 {event_id, club_id, joined_member_id} → show_event
- Candidate Keys:
 {event_id, club_id, joined_member_id}

Event_table:

- Functional Dependencies:
 club_id → eventhead, eventdetail, venue, capacity, date, time, event_img
- Candidate Keys:
 {club_id}

Noticetable:

- Functional Dependencies:
 {time_date, posted_by, club_id} → notice
- Candidate Keys:
 {time_date, posted_by, club_id}

Studentinfo:

- Functional Dependencies:
 {stu_user_id, club_id} → club_name, stu_name, dept, gender, semester, dob, admissionyear, phone, email, password, avatar, is_active, date_time, show_event
- Candidate Keys:
 {stu_user_id, club_id}

➤ Normalization:

All the tables are normalized upto BCNF except the Club_table which is normalized upto 1NF.

Club_table

- Functional Dependencies:
 $\text{moderator_id} \rightarrow \text{moderator_name, club_id, club_name, gender, email, password, date, time, avatar}$
 $\text{club_id} \rightarrow \text{club_name, moderator, moderator_id, stu_user_id, status}$
- Candidate Keys:
 {club_id, moderator_id}

Here, it is clearly visible that there are partial dependencies in the above functional dependency, to remove that we need to decompose the table further into other tables.

1. Moderatorinfo:

- Functional Dependencies:
 $\text{moderator_id} \rightarrow \text{moderator_name, club_id, club_name, gender, email, password, date, time, avatar}$
- Candidate Keys:
 {moderator_id}

2. clubinfo:

- Functional Dependencies:
 $\text{clubid} \rightarrow \text{clubname, moderator, moderatorid}$
- Candidate Keys:
 {clubid}

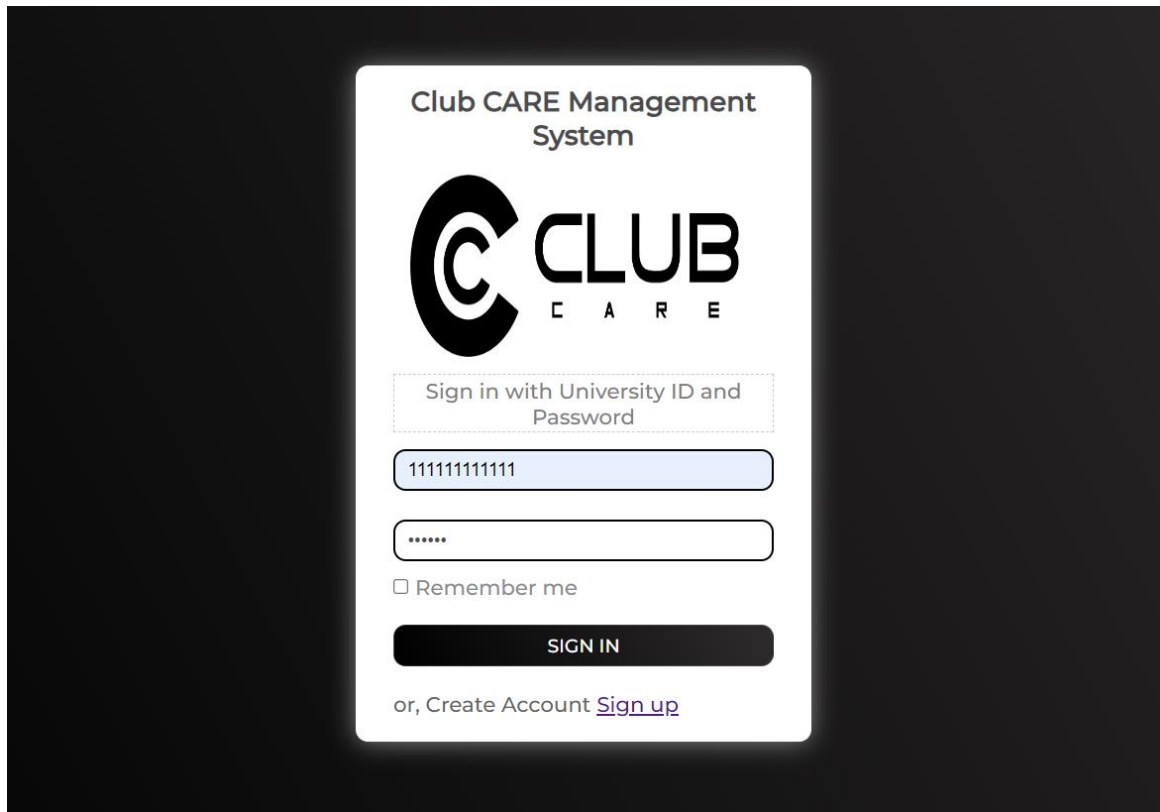
3. clubrelation:

- Functional Dependencies:
 $\{\text{clubid}, \text{studentuserid}\} \rightarrow \text{clubname}, \text{status}$
- Candidate Keys:
 $\{\text{clubid}, \text{studentuserid}\}$

All the above tables are normalized upto BCNF and after normalizing our database contains 8 tables in total.


IV. Functionality of the website

Login and Signup:




The screenshot displays the login and signup interface for the Club CARE Management System. The interface is centered on a dark background. At the top, the text "Club CARE Management System" is displayed. Below this is the logo, which consists of a large stylized "C" followed by the word "CLUB" in a bold, sans-serif font, and "CARE" in a smaller, spaced-out font below it. A dashed box contains the text "Sign in with University ID and Password". Below this are two input fields: the first contains the text "1111111111" and the second contains "*****". Below the input fields is a checkbox labeled "Remember me". A dark button with the text "SIGN IN" is positioned below the checkbox. At the bottom, the text "or, Create Account" is followed by a blue link labeled "Sign up".

User Profile:



[Home](#) [Profile](#) [Club Details](#) [Go To The Clubs](#) [Logout](#)

Het Kalaria



No file chosen

ID :

Joined Club(s) :

Department :

Joined Semester :

Admission Year :

Gender :

DOB :

Phone :

Email :

You can post any events here: (can be posted by admin as well as moderator):

EVENTS:

Select Image : No file chosen

Date :

Day

Month

Year

Time :

01:00



Clubs requests and status of members who joined that club:

CLUB REQUEST:			
New club join request(s)!			
CLUB NAME	ID	STATE	ACCEPT/REJECT
Nature Club	180470116038	N	✓ ✕
Nature Club	121212121212	N	✓ ✕

MEMBER LIST :				
CLUB NAME	ID	NAME	REQUEST DATE	STATE
Nature Club	180470116038	Heli Naik	2024-04-9 22:07:07	Y
Nature Club	180470116026	Akshat Makwana	2024-04-9 22:08:36	Y
Nature Club	180470116024	Vishad Lunagariya	2022-04-9 22:12:00	Y
Nature Club	180470116041	Khushi Makwana	2022-04-9 22:14:52	Y

Posted events, notices and list of members who joined that event:

NOTICE :			
NOTICE	TIME/DATE	POSTED BY	DELETE
Hello Everyone ! Wishing You All the Best for Upcoming Events. Participate, Win and Make us Proud.	2024-04-3 03:42:06	Admin	✕
Good Morning from Music Club !	2024-04-3 03:42:06	Moderator One	✕

EVENT LIST							
EVENT IMAGE	NAME	DETAIL	VENUE	DATE	TIME	CAPACITY	DELETE
	Music Masala	Blockbuster event for all the members of music club. Take part in Music War and win cash prizes !	Music Department	11-03-2024	10:00	20	✕
	Youth Run	'Youth' is indeed energy personified. They are equipped with a perfect balance of time at their disposal, and exuberance to deal with any task at hand. These strong Willed and Passionate group of people can definitely be the difference between a 'Developed' and a 'Developing' nation. ClubCare, encourages the youth to use these resources to their best benefit and aims to use this tremendous potential of the Indian youth to help and shape a strong future for the country.	Sports Ground	13-03-2024	07:00	1000	✕

In admin login, he/she can access every join or club requests and can all see the recently joined members:

CLUB REQUEST:			
New club join request(s):			
CLUB NAME	ID	STATE	ACCEPT/REJECT
Rotary Club	180470116024	N	✓ ✕
Rotary Club	180470116048	N	✓ ✕
Photography Club	180470116041	N	✓ ✕
Event Management Club	180470116019	N	✓ ✕
Fine Arts Club	180470116038	N	✓ ✕
Literature Club	180470116038	N	✓ ✕
ISTE Club	121212121212	N	✓ ✕
Nature Club	180470116038	N	✓ ✕
Nature Club	121212121212	N	✓ ✕

RECENTLY JOINED MEMBERS:					
DELETE ALL					
CLUB NAME	ID	NAME	REQUEST DATE	STATE	DELETE
Dance Club	121212121212	Het Kalaria	2024-04-9 09:03:27	Y	✕
Photography Club	180470116019	Rajdeep Khachar	2022-04-9 22:26:16	Y	✕
Theatre Club	180470116004	Jay Bhatt	2022-04-9 22:21:08	Y	✕
Nature Club	180470116041	Khushi Makwana	2022-04-9 22:14:52	Y	✕
Fine Arts Club	180470116024	Vishad Lunagariya	2022-04-9 22:12:00	Y	✕
SEE ALL					

Admin can create a new club as well as is capable of managing the moderators:

CREATE CLUB

WRITE CLUB NAME

WRITE Club ID (ID MUST BE UNIQUE)

SUBMIT

EXISTING CLUBS

CLUB ID	CLUB NAME	TOTAL MEMBERS	DELETE
1	Music Club	4	<input type="checkbox"/>
2	Dance Club	5	<input type="checkbox"/>
3	Sports Club	4	<input type="checkbox"/>
4	Literature Club	3	<input type="checkbox"/>
5	Fine Arts Club	2	<input type="checkbox"/>
6	Nature Club	4	<input type="checkbox"/>
7	Theatre Club	6	<input type="checkbox"/>
8	Photography Club	3	<input type="checkbox"/>
9	Rotary Club	4	<input type="checkbox"/>
10	Event Management Club	5	<input type="checkbox"/>
11	ISTE Club	0	<input type="checkbox"/>

DELETE

ADD MODERATOR

FULL NAME OF MODERATOR

ID OF MODERATOR

GENDER ☒ Male ☐ Female ☐ Other

ASSIGN TO A CLUB

EMAIL

PASSWORD

CONFIRM PASSWORD

SUBMIT

MANAGE MODERATOR(S)

EXISTING MODERATORS							
NAME	ID	CLUB NAME	GENDER	EMAIL	ACTIVATION DATE		DELETE
Moderator One	1111111111	Music Club	male	Moderator1@clubcare.com	2024-04-1 21:32:02		<input type="checkbox"/>
Moderator Two	2222222222	Dance Club	male	Moderator2@clubcare.com	2024-04-1 21:32:02		<input type="checkbox"/>
Moderator Three	3333333333	Sports Club	male	Moderator3@clubcare.com	2024-04-1 21:32:02		<input type="checkbox"/>
Moderator Four	4444444444	Literature Club	male	Moderator4@clubcare.com	2024-04-1 21:32:02		<input type="checkbox"/>
Moderator Five	5555555555	Fine Arts Club	male	Moderator5@clubcare.com	2024-04-1 21:32:02		<input type="checkbox"/>
Moderator Six	6666666666	Nature Club	male	Moderator6@clubcare.com	2024-04-1 21:32:02		<input type="checkbox"/>
Moderator Seven	7777777777	Theatre Club	male	Moderator7@clubcare.com	2024-04-1 21:32:02		<input type="checkbox"/>
Moderator Eight	8888888888	Photography Club	male	Moderator8@clubcare.com	2024-04-1 21:32:02		<input type="checkbox"/>
Moderator Nine	9999999999	Rotary Club	male	Moderator9@clubcare.com	2024-04-1 21:32:02		<input type="checkbox"/>
Moderator Ten	1010101010	Event Management Club	male	Moderator10@gmail.com	2024-04-1 21:32:02		<input type="checkbox"/>
moderator eleven	1101101101	ISTE Club	male	moderator11@clubcare.com	2024-04-1 21:32:02		<input type="checkbox"/>

DELETE

CLUB INFO TABLE			
Club ID	Club NAME	ASSIGNED MODERATOR	MODERATOR ID
1	Music Club	Moderator One	1111111111
2	Dance Club	Moderator Two	2222222222
3	Sports Club	Moderator Three	3333333333
4	Literature Club	Moderator Four	4444444444
5	Fine Arts Club	Moderator Five	5555555555
6	Nature Club	Moderator Six	6666666666
7	Theatre Club	Moderator Seven	7777777777
8	Photography Club	Moderator Eight	8888888888
9	Rotary Club	Moderator Nine	9999999999
10	Event Management Club	Moderator Ten	1010101010
11	ISTE Club	moderator eleven	1101101101

V. Conclusion

In conclusion, the club management system, fueled by JavaScript, HTML, CSS, PHP, and the robust MySQL database, reaches new heights of efficiency and reliability. It ensures that our club information stays secure and organized, while also allowing us to handle large amounts of data smoothly. MySQL's strength lies in its ability to scale effortlessly, providing quick access to all the data we need. It's like the solid foundation that keeps our system running smoothly, making sure everything stays stable and secure.