

**Database Systems
Club Management and Student
Achievement Tracking System(CMSATS)**

Course Project Report

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2 Introduction

Student clubs are an integral part in fostering personal growth, academic achievement and social interaction among students. Clubs at IIITDM cater to a wide range of interests and passions providing students with the opportunities to explore, engage and excel beyond the confines of the classroom. From technical clubs focusing on robotics, aerodynamics, coding and engineering to cultural clubs celebrating diversity and tradition, IIITDM's student organizations offer something for everyone.

The Club Management and Student Achievement tracking system(CMSATS) helps in effective and efficient management of the club system. It is a sophisticated software solution aimed at facilitating seamless organization and tracking of club activities within Institutes. It serves as a valuable tool for both students and professors, offering secure access and transparent communication. The system includes a user-friendly interface with an interactive calendar for efficient planning of club events and robust mechanisms to accurately monitor student participation. It also, emphasizes the generation of comprehensive reports on individual student achievements, contributing to a well-rounded understanding of their extracurricular engagement.

This report provides a detailed description of the CMSATS, its working and implementation. The report also comprises of a detailed Software requirement Specifications(SRS), an Entity-relationship model and a detailed Schema describing the underlying implementation of the CMSATS. **Normalization techniques have been adopted in implementing the underlying database of the CMSATS.** The report also comprises of detailed SQL queries, front-end implementation and source code for implementation.

3 Software Requirement Specifications(SRS)

3.1 Introduction

The **Club Management and Student Achievement Tracking System (CMSATS)** is a sophisticated software solution aimed at facilitating seamless organization and tracking of club activities within Institutes. It serves as a valuable tool for both students and professors, offering secure access and transparent communication. The system includes a user-friendly interface with an interactive calendar for efficient planning of club events and robust mechanisms to accurately monitor student participation. Notably, CMSATS emphasizes the generation of comprehensive reports on individual student achievements, contributing to a well-rounded understanding of their extracurricular engagement. By promoting accountability and transparency, CMSATS is designed to elevate the management of club activities, fostering an environment that recognizes and celebrates student contributions.

3.2 Purpose

The primary objective of the CMSATS is to optimize the administration of club activities by automating the manual tracking of student involvement in diverse club events. Given the varied nature of activities organized by different clubs, CMSATS offers a holistic solution to monitor a student's overall participation across various domains. This comprehensive approach enables the assessment of individual interests and performance relative to peers. Furthermore, CMSATS serves as a valuable tool for students and professors, streamlining the event handling system and enhancing the overall efficiency and effectiveness of club management.

3.3 Intended Audience and Reading Suggestions

This document is intended for requirements engineers, students and professors of an Institute, technical engineers.

3.4 Document Conventions

The document focuses on the high priority requirements which will be implemented for the final deliverable.

3.5 Project Scope

The scope of the project encompasses the development and implementation of the Club Management and Student Achievement Tracking System (CMSATS). This software solution aims to revolutionize the management of diverse club activities within the institute by automating event tracking and providing comprehensive insights into student participation. It includes features for efficient planning, secure communication, and detailed reporting, contributing to a more streamlined and transparent extracurricular management process. It will support integration with existing tools and systems used in the Institute.

3.6 Overall Description

3.6.1 System Perspective

IIITDM Kancheepuram comprises of multiple clubs. Clubs could either be Technical or Cultural. Each club has its own **unique id and name**. All Technical clubs are collectively controlled by the **Technical affairs** and all Cultural Clubs are collectively controlled by the **Cultural affairs** of the Institute. We wish to keep track of the **PIC id, Secretary id, Joint Secretary id of both the Technical and Cultural affairs of the Institute..** Technical clubs are further divided into **Competitive and Non-Competitive clubs**.

Every Student of the Institute has an **unique id**. Every club has an **unique club id and is managed by the club lead**. Every **non-competitive and cultural club has coordinators (or) Joint-cores who work under the guidance of the cores and help in efficient management of the club system**. Every club conducts **one recruitment drive per year and a series of events throughout the semester**.

Competitive clubs are divided into **subsystems** and each **subsystem is managed by a subsystem lead**. Every subsystem has a number of people working under their subsystem lead. Competitive clubs work on a series of **projects throughout the semester**. They conduct **one recruitment drive per year and a handful of events throughout the semester**. We wish to keep track of the **ids and names of all the cores,coordinators (or) joint cores,subsystem leads and subsystem members**. A student can enroll in only one competitive club

and in multiple non-competitive and cultural clubs

Every Project has an **unique name,unique id** . Every project is uniquely controlled by a single competitive club. A person can only work on a project controlled by his (or) her competitive club only.

Students of IIITDM Kancheepuram can participate in multiple events throughout the semester. For every event we keep track the **club id of the club conducting the event, venue of the event, event name, start-time, end-time, start-date, end-date**. Every event has a certain **credit value which is already pre-determined by the PIC and the respective secretaries of each club**. Students will be awarded points based on an already **pre-determined algorithm** which is explained later in the document. Events are further classified as **certifiable (or) non-certifiable which is decided by the respective club core**.

We keep track of the events every student participates in. We also wish to keep track of the **feedback received for every event and the status of the feedback received**.

3.7 Operating Environment

The CMSATS needs a **MySQL database** to be setup which can be installed from the internet.

3.8 Functional requirements

1. User Management:

- (a) Keeping track of id, password for user authentication.
- (b) Providing different access permissions to different people based on a pre-defined hierarchy.
- (c) Allow administrators to create, edit, and delete student accounts.

2. Club Management:

- (a) Create, update, and delete Technical and Cultural clubs with unique club IDs and names.
- (b) Create, update, and delete accounts of Cores, coordinators (or) Joint Cores.

- (c) Allow access permissions for various club members to manage and manipulate club events.

3. Event Management:

- (a) Create, update, and delete events with information such as club ID, venue, event name, start-time, end-time, start-date, end-date, and credit value.
- (b) Allow club members to classify events as certifiable (or) non-certifiable based on the decision of the cores and generate automatic certificates for certifiable events.
- (c) Automated Student notification about the club events via the official Institute email.
- (d) **Able to schedule events through the software which do not clash with an already scheduled event.**
- (e) **Automated event verification from the PIC of the club**

4. Club Roles Management:

- (a) Define and manage roles within clubs, such as Cores, Joint Cores, Coordinators, Subsystem Leads, and Members

5. Project Management:

- (a) Create, update, and delete projects with unique names and IDs.
- (b) Associate each project with a specific Competitive club.
- (c) Ensure that students can only work on projects controlled by their Competitive club.

6. Club achievement tracking:

- (a) Showcase the various achievements of the club throughout the academic year.
- (b) Highlight the projects of the various competitive clubs and their key performance indicators.
- (c) Compare performance of competitive clubs relative to the previous academic years.

7. Participation Tracking:

- (a) Record students' participation in events, projects, and clubs.

- (b) Associate each participation record with the respective student and club.

8. Performance Tracking:

- (a) Keep track of every student's participation and performance in the various events conducted by the club throughout the semester.
- (b) Create a comprehensive report highlighting absolute performance of a student and his (or) her relative performance in the club events.
- (c) **Normalize the performance to accommodate competitive, non competitive and cultural club performances and thereby avoid any kind of discrepancy.**

9. Feedback management :

- (a) Receive feedback about an event through the software.
- (b) Present the status of the feedback(Implemented/under Processing/valid explanation from the club to the user about the feedback and the action taken by the club to address the feedback).

10. Reporting:

- (a) Generate customizable reports on event status, participation status, participation ratio(year wise/ gender wise) and other key performance indicators.
- (b) Support exporting reports in various formats (e.g., PDF, Excel) for sharing and analysis.

3.9 Non-Functional requirements

1. Performance:

- (a) The system should provide quick response times for user interactions, ensuring that operations are performed promptly.
- (b) Should be efficient and effective.

2. Reliability:

- (a) The system should have a high level of availability, minimizing downtime for maintenance and ensuring reliable access for users.
- (b) The system should be designed to handle unexpected errors or faults gracefully without compromising data integrity.

3. Security:

- (a) Ensure the confidentiality, integrity, and availability of sensitive data within the system.
- (b) Implement role-based access control to restrict user access based on their roles and responsibilities.
- (c) Use secure authentication mechanisms and enforce proper authorization for users.

4. Usability:

- (a) The system should have an intuitive and user-friendly interface to facilitate easy navigation and usage.
- (b) Ensure that the system is accessible to users with disabilities, following accessibility standards.

5. Scalability:

- (a) The database should be scalable to handle a growing amount of data efficiently.
- (b) The system should support an increasing number of users without significant degradation in performance.

6. Compatibility:

- (a) The system should be compatible with major web browsers to ensure a consistent user experience.

- (b) :The system should be accessible and functional across different devices, such as desktops, tablets, and smartphones.

7. Maintainability:

- (a) The system's codebase should be well-documented and modular, facilitating future maintenance and updates.
- (b) Use version control systems and maintain configuration files for easy system configuration changes.

8. Compliance:

- (a) Ensure that the system complies with relevant laws and regulations related to data protection and privacy.

9. Performance Testing:

- (a) Conduct load testing to assess the system's performance under different load conditions.

10. Documentation:

- (a) Provide comprehensive documentation for end-users to understand how to use the system.
- (b) Create detailed technical documentation for system administrators and developers.

3.10 System Constraints

The CMSATS must be developed using technologies and platforms compatible with the Institute's existing infrastructure and IT policies. It should also adhere to relevant industry standards and regulatory requirements governing software development and testing practices

Constraints on server capacity, processing power, and memory based on the available infrastructure within the institute's IT environment should be taken into consideration.

The Internet connection is also a constraint for the application. The CMSATS will be constrained by the capacity of the database. Since the database is shared between both computers and mobiles it may be forced to queue incoming requests and therefore increase the time it takes to fetch data.

3.11 Assumptions and Dependencies

One assumption about the product is that it will always be used on a device that has enough performance. If the phone does not have enough hardware resources available for the application, for example the users might have allocated them with other applications, there may be scenarios where the application does not work as intended or even at all.

The CMSATS is dependent on the admin database of the Institute to access all the details of the Students, that is the CMSATS should be linked to the admin database of the Institute to access all Student details of the Institute.

3.12 Algorithm to produce normalized results

3.12.1 Competitive Club Performance

Let us consider a student X who works in a competitive club and lets assume he works on N projects throughout the semester.. Let p_i be the i^{th} project the student worked on. Let h_i be the average number of hours spent by X on the i^{th} project. Let H be the average number of hours all students of a competitive club work on their club projects. The number of points awarded to X is $(\sum_{i=1}^N h_i)/H$

3.12.2 Non Competitive and Cultural Club Performance

Let us consider a student X who participates in N events through the semester. The number of points awarded to X is $(\sum_{i=1}^N C_i * n_i)/N$ where C_i is the credit(pre-determined) of the i^{th} event and n_i is the number of events which have a credit C_i .

The algorithm mentioned above produces normalized results which can be used to rank students based on their club performance which incentivizes students to participate in club activities. Certificates and Badges can be awarded based on the Students Performance at the end of the Semester.

3.13 Glossary

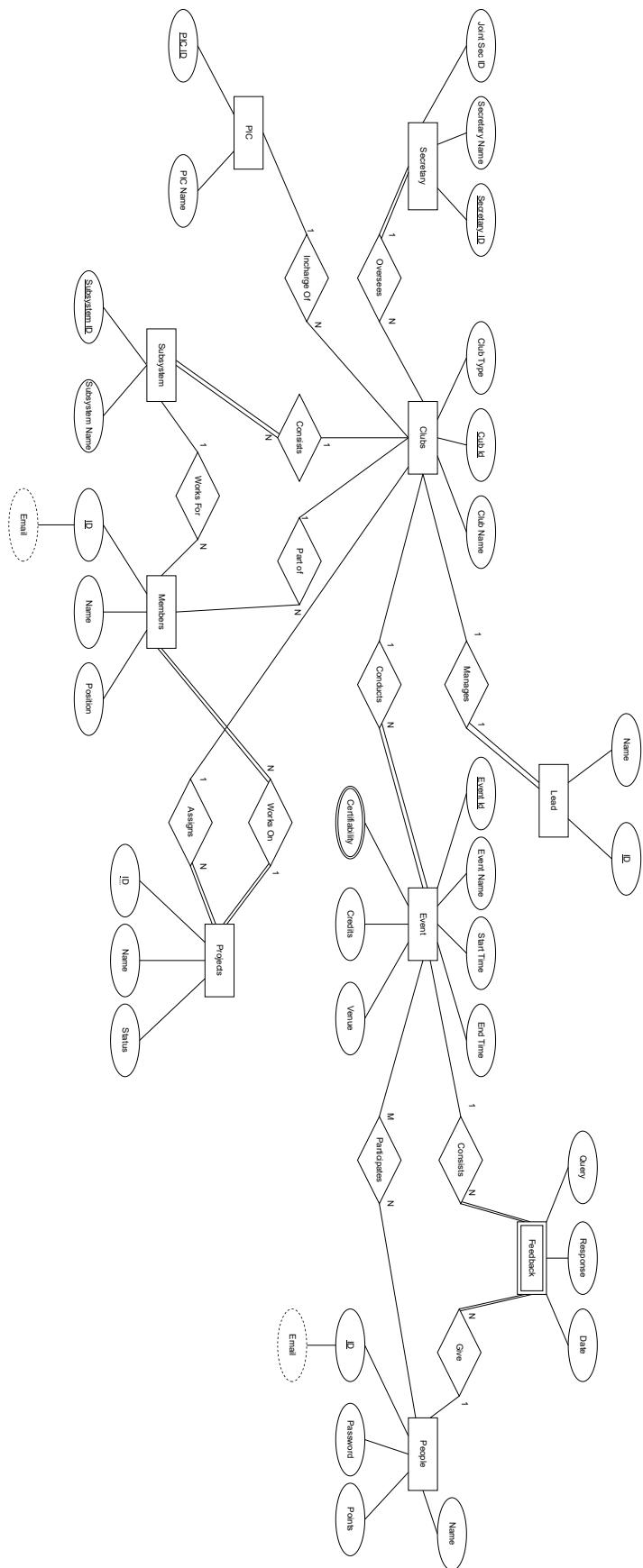
1. CMSATS: Club Management and Student Achievement Tracking System

2. PIC: Professor In Charge
3. SQL: Structured Query Language
4. PDF: Portable Document Format
5. Excel: Microsoft Excel Spreadsheet Format

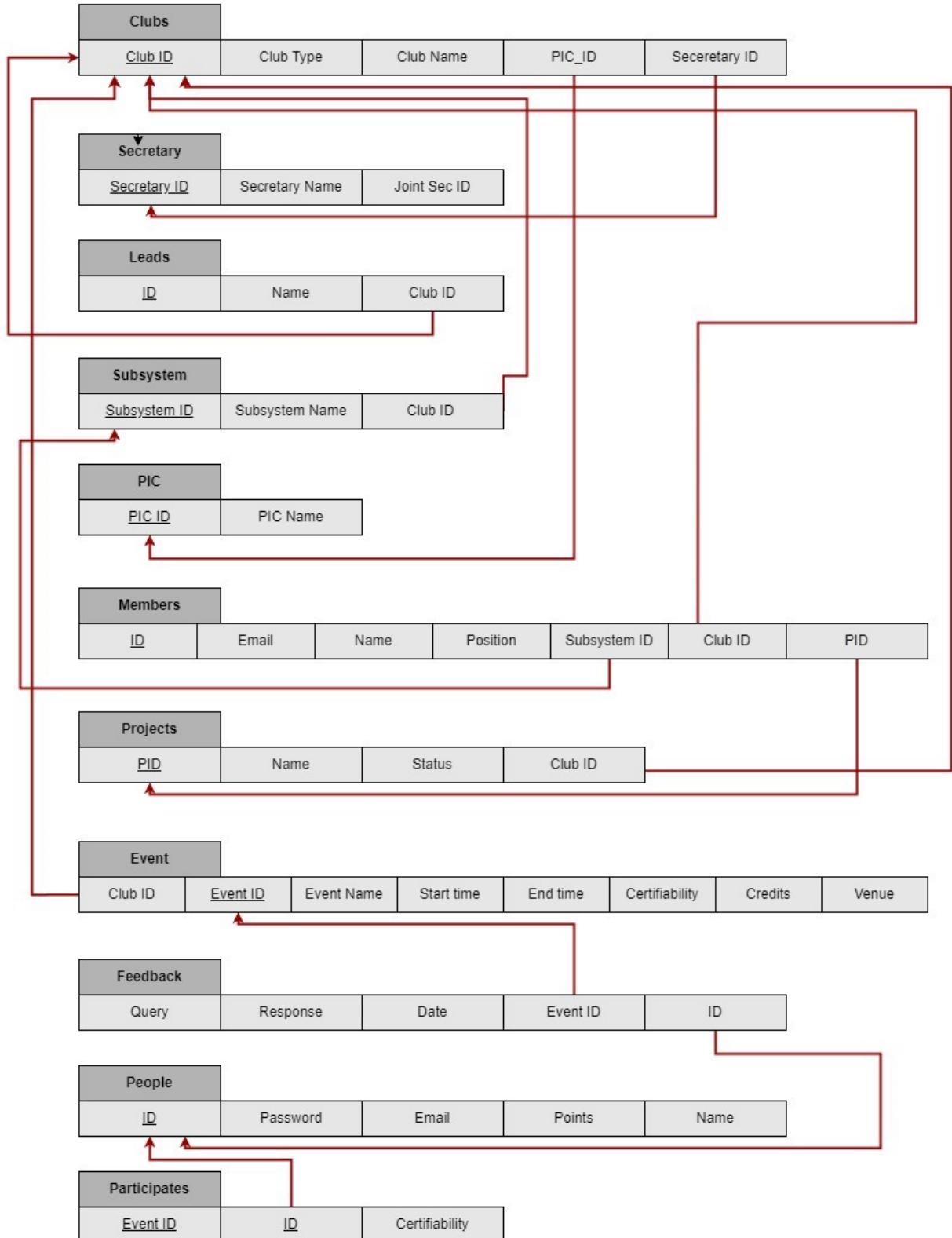
3.14 Conclusion

In conclusion, the Club Management and Student Achievement Tracking System implemented at IIITDM Kancheepuram (CMSATS) is designed to efficiently organize, coordinate, and track the diverse activities within the institute's clubs. The system encompasses a comprehensive set of functionalities, including the management of Technical and Cultural clubs, Competitive and Non-Competitive clubs, events, projects, tracking of Student Participation , and event management making the club management system more effective.

4 Entity relationship diagram(ER)



5 Schema mapping



6 Technology Stack

1. **Operating System:** The CMSATS functions on any operating system. The CMSATS was developed in Linux Systems.
2. **Database:** MySQL(SQL database)
3. **Framework:**
 - Frontend: HTML, CSS, Javascript
 - Backend: PHP, Node JS, Express JS,XAMPP
4. **Web Server:** Apache HTTP
5. **Programming Languages:** Python

7 Implementation and Methodology:

The CMSATS has the following functionalities:

1. **User authentication:** A vibrant login portal which authenticates the users **based on their roles** and provides specific **access privileges** based on the user's role. Each user has a password which must be correctly entered in the password field of the login page to enter the CMSATS Portal.
Technologies used for implementation: HTML, CSS, Javascript
2. **Centralised club website:** A centralised club website page that has hyperlinks for every club's personalised website made by the team. It also provides an opportunity for the students to join clubs through the CMSATS web portal
Technologies used for implementation: HTML,CSS
3. **Providing different access privileges:** A PIC(Professor in charge) of the club has access to all the events and its details the club has conducted throughout the academic year. Similarly secretaries,cores and joint-cores have **specific access privileges** that let them view and manipulate data of other users in their respective clubs.
Technologies used for implementation: HTML,CSS,Javascript,Node JS,Express JS

4. Scheduling events: The CMSATS also allows club cores to schedule events dynamically. The CMSATS has an **event scheduler** that allows club cores to schedule events which do not clash with other events already scheduled at the same venue or at the same time. This allows a seamless integration of event management and dynamicity of event scheduling.

Technologies used for implementation: HTML,CSS,Javascript,Node JS,Express JS

5. Automated notification enabling system: The CMSATS has an automatic notification enabler that sends an email to the respective club core every time a new user wants to join the club or when a user wants to join an event scheduled by a club. It also sends a reminder email to the users regarding events they have registered for.

Technologies used for implementation: GMAIL STMP(PHP Library)

6. Student achievement tracking system:

- **Personalized dashboard:** Every student has his/her own personal dashboard which tracks events he/she has participated throughout the academic year.
- **Performance analysis system:** The CMSATS used **Power BI** to automatically generate **certificates of participation**, **certificates of victory in events**. The CMSATS also generates a **relative performance report** of students based on their extracurricular engagement throughout the academic year

Technologies used for implementation: Power BI,PHP+Inbuilt Latex + Javascript

8 Data Population in SQL

```
mysql> insert into people(ID,password,email,points,name) values
-> ('CS22B2031','Saatvik101123$$abc','CS22B2031@iiitdm.ac.in',80,'Saatvik'),
-> ('CS22B1099','1210@$abcd','CS22B1099@iiitdm.ac.in',75,'aditya krishna'),
-> ('ME22B2013','9012@Iyapan','ME22B2013@iiitdm.ac.in',50,'iyappan'),
-> ('EC22B1098','Avengers123$$','EC22B1098@iiitdm.ac.in',50,'Aryan Bhardwaj'),
-> ('ME22B1099','2004121$1','ME22B1099@iiitdm.ac.in',45,'Mrithunjay '),
-> ('EC22B1011','Karthi11@2004','EC22B1011@iiitdm.ac.in',40,'Kaarthick Natesan'),
-> ('ME22B2019','121@$_$2004','ME22B2019@iiitdm.ac.in',30,'ezhil'),
-> ('CS22B1078','9810$_$123','CS22B1078@iiitdm.ac.in',25,'Keerthi Rekha'),
-> ('CS22B1046','1019@$aj_123','CS22B1046@iiitdm.ac.in',105,'ajitha arvindh'),
-> ('CS22B1019','191$_$121ks','CS22B1019@iiitdm.ac.in',105,'keerthana'),
-> ('CS22B1042','jy@121$11','CS22B1042@iiitdm.ac.in',105,'jyostna'),
-> ('ME22B1011','Rd1019#','ME22B1011@iiitdm.ac.in',100,'radha'),
-> ('EC22B1019','Rk11$$','EC22B1019@iiitdm.ac.in',100,'ravi krishnan');
Query OK, 13 rows affected (0.05 sec)
Records: 13  Duplicates: 0  Warnings: 0
```

```
mysql> insert into clubs
-> values
-> ('competitive','Cp1002','AUV','P1002','S1002'),
-> ('non-competitive','NCP1000','CP','P1000','S1003'),
-> ('non-competitive','NCP1001','PRIT','P1001','S1004'),
-> ('cultural','Cl1000','music','P1005','S1000'),
-> ('cultural','Cl1001','dance','P1006','S1001'),
-> ('cultural','Cl1002','art','P1007','S1002'),
-> ('cultural','Cl1003','literary society','P1008','S1003');
Query OK, 7 rows affected (0.10 sec)
Records: 7  Duplicates: 0  Warnings: 0
```

```
mysql> insert into leads
-> values
-> ('ME22B1079','Narendran.V','Cp1000'),
-> ('EC22B1098','Aryan Bhardwaj','Cp1001'),
-> ('EC22B1011','Kaarthick Natesan','Cp1002'),
-> ('CS22B1064','Avinaash.A','NCP1000'),
-> ('CS22B1063','Aditya Pillai','NCP1001'),
-> ('CS22B1021','Nivedh Biju','Cl1000'),
-> ('CS22B1078','Keerthi Rekha Penugonda','Cl1001'),
-> ('CS22B1079','Shaam Karn','Cl1002'),
-> ('CS22B1046','Jyotsna','Cl1003');
Query OK, 9 rows affected (0.04 sec)
Records: 9  Duplicates: 0  Warnings: 0
```

```
mysql> insert into subsystems
-> values
-> ('CS1000','Simulation and Automation','Cp1000'),
-> ('EC1000','Power Electronics','Cp1000'),
-> ('ME1000','Design and Prototyping','Cp1000'),
-> ('CS1001','Obstacle detection and data analytics','Cp1001'),
-> ('EC1001','Microelectronics and control sensors','Cp1001'),
-> ('ME1001','Design and Prototyping','Cp1001'),
-> ('CS1002','Computer vision and automated underwater tracking','CP1002'),
-> ('EC1002','Obstacle detection and sensing','CP1002'),
-> ('ME1002','Design and Prototyping','CP1002');
Query OK, 9 rows affected (0.04 sec)
Records: 9  Duplicates: 0  Warnings: 0

mysql> commit;
Query OK, 0 rows affected (0.04 sec)
```

```

mysql> insert into pic
    -> values
    -> ('P1000', 'Santhanam Raghavan'),
    -> ('P1001', 'Jaishree Mayank'),
    -> ('P1002', 'Preeth Raguraman'),
    -> ('P1003', 'Debolina Misra');
Query OK, 4 rows affected (0.04 sec)
Records: 4 Duplicates: 0 Warnings: 0

```

```

mysql> create table events(club_id varchar(255) ,event_id varchar(255) primary key,event_name varchar(255) , start_time time,end_time time,certifiability varchar(2),credits int,venue varchar(255));
Query OK, 0 rows affected (0.04 sec)

mysql> insert into events
    -> values
    -> ('Cp1000', 'E1000', 'Introduction to Electric Vehicles', '18:00:00', '20:00:00', 'N', 1, 'H15'),
    -> ('Cp1001', 'E1001', 'ROS Programming', '20:30:00', '22:00:00', 'Y', 3, 'H42'),
    -> ('Cp1002', 'E1002', 'Introduction to Underwater Vehicles', '14:05:00', '15:30:00', 'N', 1, 'H02'),
    -> ('NCP1000', 'E1003', 'Competitive Programming Practise', '18:30:00', '20:30:00', 'Y', 3, 'H15'),
    -> ('NCP1001', 'E1004', 'Introduction to Git and Github', '14:30:00', '17:30:00', 'Y', 2, 'H05'),
    -> ('CL1000', 'E1005', 'Open stage-1', '19:00:00', '22:00:00', 'Y', 2, 'H05'),
    -> ('CL1001', 'E1006', 'Dance Practice-1', '20:00:00', '21:00:00', 'Y', 2, 'H05'),
    -> ('CL1002', 'E1007', 'Art made easy', '21:00:00', '22:00:00', 'Y', 2, 'H05'),
    -> ('CL1003', 'E1008', 'Book reading session', '19:30:00', '21:30:00', 'Y', 2, 'H15'),
    -> ('Cp1000', 'E1009', 'Bridge Building', '14:30:00', '18:30:00', 'Y', 4, 'H42'),
    -> ('Cp1001', 'E1010', 'Rover racing', '19:30:00', '21:45:00', 'Y', 4, 'H15'),
    -> ('Cp1002', 'E1011', 'Shell Scripting', '19:30:00', '22:00:00', 'Y', 4, 'H42'),
    -> ('NCP1000', 'E1012', 'Best programming practice', '20:30:00', '21:30:00', 'N', 2, 'H42'),
    -> ('NCP1001', 'E1013', 'Bug Hunt practice', '20:00:00', '22:00:00', 'Y', 3, 'H15'),
    -> ('CL1000', 'EC1014', 'Open stage-2', '19:00:00', '21:00:00', 'N', 1, 'H24'),
    -> ('CL1001', 'EC1015', 'Dance practise-2', '16:30:00', '18:00:00', 'N', 1, 'H15'),
    -> ('CL1002', 'EC1016', 'Imaginary art', '19:00:00', '21:00:00', 'Y', 2, 'H34'),
    -> ('CL1003', 'EC1017', 'Debate competition', '19:00:00', '21:00:00', 'Y', 4, 'H15'),
    -> ('Cp1000', 'EC1018', 'Prototyping workshop', '12:00:00', '16:00:00', 'Y', 3, 'H05'),
    -> ('Cp1001', 'EC1019', 'Mastering the terminal-Ubuntu', '19:00:00', '21:45:00', 'Y', 4, 'H15'),
    -> ('Cp1002', 'EC1020', 'Controlling Underwater Vehicles', '12:00:00', '14:00:00', 'Y', 2, 'H31'),
    -> ('NCP1000', 'EC1021', 'Web development Session-1', '13:00:00', '15:00:00', 'N', 2, 'H01'),
    -> ('NCP1001', 'EC1022', 'Introduction to Ethical Hacking', '19:00:00', '21:45:00', 'N', 3, 'H01'),
    -> ('CL1000', 'EC1023', 'Music practise', '12:00:00', '14:00:00', 'Y', 2, 'H01'),
    -> ('CL1001', 'EC1024', 'Flash Mob', '13:00:00', '16:00:00', 'Y', 3, 'H01'),
    -> ('CL1002', 'EC1025', 'Painting competition', '20:00:00', '21:00:00', 'Y', 2, 'H11'),
    -> ('CL1003', 'EC1026', 'Writing Poem Competition', '19:00:00', '20:00:00', 'Y', 2, 'H01');

Query OK, 27 rows affected (0.04 sec)
Records: 27 Duplicates: 0 Warnings: 0

```

```

mysql> insert into projects
    -> values
    -> ('P0000', 'E-Baha', 'Done', 'Cp1000'),
    -> ('P0001', 'M-Baha', 'Ongoing', 'Cp1000'),
    -> ('P0002', 'Electric Scooter', 'Ongoing', 'Cp1000'),
    -> ('P0100', 'Project Shunya', 'Done', 'Cp1001'),
    -> ('P0101', 'Project Mangal', 'Ongoing', 'Cp1001'),
    -> ('P0102', 'Retrover', 'Ongoing', 'Cp1001'),
    -> ('P0200', 'Aqua gladiator', 'Done', 'Cp1002'),
    -> ('P0201', 'Ultra Submarine', 'Ongoing', 'Cp1002'),
    -> ('P0202', 'Project Neer', 'Ongoing', 'Cp1002');

Query OK, 9 rows affected (0.08 sec)
Records: 9 Duplicates: 0 Warnings: 0

```

```

mysql> insert into members
-> values
-> ('CS22B1066', 'CS22B1066@iitdm.ac.in', 'yugaash sridhar', 'Subsystem Lead', 'CS1000', 'Cp1000', 'P0000'),
-> ('EC22B1019', 'EC22B1019@iitdm.ac.in', 'ravi krishnan', 'Subsystem Lead', 'EC1000', 'Cp1000', 'P0000'),
-> ('ME22B1011', 'ME22B1011@iitdm.ac.in', 'radha', 'Subsystem Lead', 'ME1000', 'Cp1000', 'P0001'),
-> ('CS22B1021', 'CS22B1021@iitdm.ac.in', 'nivedh biju', 'Member', 'CS1000', 'Cp1000', 'P0001'),
-> ('CS22B1099', 'CS22B1099@iitdm.ac.in', 'aditya krishna', 'Member', 'EC1000', 'Cp1000', 'P0002'),
-> ('ME22B2013', 'ME22B2013@iitdm.ac.in', 'iyappan', 'Member', 'ME1000', 'Cp1000', 'P0002'),
-> ('CS22B1063', 'CS22B1063@iitdm.ac.in', 'aditya pillai', 'Subsystem Lead', 'CS1001', 'Cp1001', 'P0100'),
-> ('CS22B1079', 'CS22B1079@iitdm.ac.in', 'shaam karn', 'Subsystem Lead', 'EC1001', 'Cp1001', 'P0100'),
-> ('ME22B1099', 'ME22B1099@iitdm.ac.in', 'Mrithunjay Ganesh', 'Subsystem Lead', 'ME1001', 'Cp1001', 'P0101'),
-> ('EC22B1089', 'EC22B1089@iitdm.ac.in', 'abhinav', 'Member', 'CS1001', 'Cp1001', 'P0101'),
-> ('CS22B1019', 'CS22B1019@iitdm.ac.in', 'keerthana', 'Member', 'EC1001', 'Cp1001', 'P0102'),
-> ('CS22B1078', 'CS22B1078@iitdm.ac.in', 'Keerthi Rekha', 'Member', 'CS1002', 'Cp1002', 'P0200'),
-> ('CS22B1064', 'CS22B1064@iitdm.ac.in', 'avinasha.s.', 'Subsystem Lead', 'CS1002', 'Cp1002', 'P0200'),
-> ('EC22B1011', 'EC22B1011@iitdm.ac.in', 'Kaarthick Natesan', 'Subsystem Lead', 'EC1002', 'Cp1002', 'P0201'),
-> ('CS22B1046', 'CS22B1046@iitdm.ac.in', 'ajitha arvindh', 'Member', 'EC1002', 'Cp1002', 'P0202'),
-> ('CS22B2031', 'CS22B2031@iitdm.ac.in', 'saatvik', 'Joint Core', NULL, 'NCP1001', NULL),
-> ('EC22B1100', 'EC22B1100@iitdm.ac.in', 'akash', 'Coordinator', NULL, 'CL1001', NULL),
-> ('ME22B1019', 'ME22B1019@iitdm.ac.in', 'ezhil', 'Coordinator', NULL, 'CL1002', NULL),
-> ('EC22B1019', 'EC22B1019@iitdm.ac.in', 'ravi krishnan', 'Coordinator', NULL, 'CL1003', NULL),
-> ('CS22B1064', 'CS22B1064@iitdm.ac.in', 'avinasha.s.', 'Coordinator', NULL, 'CL1003', NULL),
-> ('CS22B1063', 'CS22B1063@iitdm.ac.in', 'aditya pillai', 'Joint Core', NULL, 'NCP1000', NULL),
-> ('CS22B1021', 'CS22B1021@iitdm.ac.in', 'nivedh biju', 'Joint Core', NULL, 'NCP1000', NULL),
-> ('ME22B2013', 'ME22B2013@iitdm.ac.in', 'iyappan', 'Joint Core', NULL, 'NCP1001', NULL),
-> ('CS22B1066', 'CS22B1066@iitdm.ac.in', 'yugaash sridhar', 'Coordinator', NULL, 'CL1000', NULL),
-> ('CS22B1079', 'CS22B1079@iitdm.ac.in', 'shaam karn', 'Coordinator', NULL, 'CL1000', NULL),
-> ('ME22B1099', 'ME22B1099@iitdm.ac.in', 'Mrithunjay Ganesh', 'Coordinator', NULL, 'CL1001', NULL),
-> ('CS22B1099', 'CS22B1099@iitdm.ac.in', 'aditya krishna', 'Coordinator', NULL, 'CL1002', NULL);

Query OK, 27 rows affected (0.11 sec)
Records: 27 Duplicates: 0 Warnings: 0

```

```

mysql> INSERT INTO feedback (query, response, date, event_id, id) VALUES
-> ('Having difficulty finding charging stations for electric vehicles near the venue.', 'We''ve arranged for additional charging stations near the even t venue. You can find them at the parking lot entrance.', '2024-05-12', 'E1000', 'CS22B1064'),
-> ('Encountered a ROS node crash while testing. Unable to identify the cause.', 'Check your launch files for any incorrect node names or topics. Also, verify that your nodes are correctly subscribing and publishing to the required topics.', '2024-05-12', 'E1001', 'CS22B1063'),
-> ('Got stuck in a Git merge conflict. Not sure how to proceed.', 'Open the conflicted file and manually resolve the conflicts. Then, stage the changes and commit them. If you''re unsure, use `git mergetool` for assistance.', '2024-05-12', 'E1002', 'CS22B1021'),
-> ('Facing difficulty learning the choreography for Dance Practise-1.', 'No worries! We''ll have an extra practice session after the main rehearsal today. Feel free to join, and we''ll help you catch up.', '2024-05-12', 'E1006', 'CS22B1066'),
-> ('Struggling with a complex programming problem for Competitive Programming.', 'Let''s break down the problem together. First, identify the inputs and outputs. Then, try solving a simplified version of the problem before tackling the main challenge.', '2024-05-12', 'E1003', 'CS22B1079'),
-> ('Unable to fix a bug in Python code. Code keeps throwing errors.', 'Share your code with us, and we''ll debug it together. Sometimes, a fresh pair o f eyes can spot the issue more easily.', '2024-05-12', 'E1013', 'CS22B1079'),
-> ('Finding it hard to remember Ubuntu terminal commands.', 'Consider creating cheat sheets or flashcards for commonly used commands. Practice using th e terminal daily for tasks like file navigation and package management.', '2024-05-12', 'EC1019', 'EC22B1100'),
-> ('Unsure about the schedule for Open stage-2 event.', 'The Open stage-2 event starts at 6:00 PM sharp in the main auditorium. Make sure to arrive ear ly to secure a good seat!', '2024-05-12', 'EC1014', 'CS22B2031'),
-> ('Confused about the rules for rover racing competition.', 'Don''t worry! We''ll have a briefing session before the race starts to explain the rules and regulations in detail.', '2024-05-12', 'E1018', 'CS22B1099'),
-> ('Need help refining the design of my bridge for the competition.', 'Let''s review your design together. We''ll provide feedback on structural integr ity, material selection, and load distribution to help you improve.', '2024-05-12', 'E1009', 'ME22B2013'),
-> ('Struggling to follow coding best practices.', 'We''ll conduct a coding standards workshop next week. In the meantime, focus on modularizing your co de, writing meaningful comments, and adhering to naming conventions.', '2024-05-12', 'E1012', 'EC22B1098'),
-> ('Having trouble controlling underwater vehicles during simulations.', 'Join our hands-on session tomorrow where we''ll cover basic controls and mane uvers for underwater vehicles. You''ll get a chance to practice in our simulation environment.', '2024-05-12', 'EC1020', 'ME22B1099'),
-> ('Unsure about the start time for the music session.', 'The music session starts at 4:00 PM in the music room. Bring your instruments, and let''s mak e some beautiful music together!', '2024-05-12', 'EC1023', 'EC22B1011'),
-> ('Need more information on participating in the Flash Mob.', 'We''ll be holding auditions for the Flash Mob next week. Keep an eye on our social medi a channels for updates on audition dates and requirements.', '2024-05-12', 'EC1024', 'ME22B2019'),
-> ('Finding it challenging to learn advanced painting techniques.', 'Join our painting workshop this weekend, where we''ll cover advanced techniques li ke color blending, texture creation, and composition. You''ll receive personalized guidance from experienced artists.', '2024-05-12', 'EC1025', 'CS22B1078')

'-> ('Unsure about the theme for the Writing Poem Competition.', 'The theme for the competition is "Reflections of Nature". Let nature inspire your creat ivity as you compose your masterpiece!', '2024-05-12', 'EC1026', 'CS22B1040'),
-> ('Having trouble setting up the development environment for web development.', 'We''ll have a hands-on workshop on web development setup next Monday. Bring your laptops, and we''ll guide you through the installation and configuration process step by step.', '2024-05-12', 'EC1021', 'CS22B1024'),
-> ('Need more information about the Book reading session.', 'The Book reading session is happening tomorrow at 2:00 PM in the library. Come prepared to discuss your favorite book and share your thoughts with fellow book enthusiasts!', '2024-05-12', 'E1008', 'CS22B1046'),
-> ('Encountering difficulty solving a programming problem.', 'Let''s break down the problem together. Share your approach so far, and we''ll provide gu ideance on how to proceed.', '2024-05-12', 'E1003', 'ME22B1011'),
```

```

-> ('Unsure about the schedule for Dance Practise-2.', 'Dance Practise-2 is scheduled for Tuesdays and Thursdays from 5:00 PM to 7:00 PM in the dance st udio. Make sure to wear comfortable clothing and bring water!', '2024-05-12', 'EC1015', 'EC22B1019');

Query OK, 20 rows affected (0.04 sec)
Records: 20 Duplicates: 0 Warnings: 0

```

```
mysql> commit;
```

```

mysql> create table secretary(sec_id varchar(255) primary key, sec_name varchar(255));
Query OK, 0 rows affected (0.04 sec)

```

```

mysql> insert into secretary
-> values
-> ('S1000','keerthana'),
-> ('S1001','ajitha arvindh');
Query OK, 2 rows affected (0.04 sec)
Records: 2 Duplicates: 0 Warnings: 0

```

```
mysql> INSERT IGNORE INTO participates (event_id, id) VALUES
-> ('E1003', 'CS22B1019'),
-> ('E1003', 'CS22B1021'),
-> ('E1003', 'CS22B1042'),
-> ('E1003', 'CS22B1046'),
-> ('E1003', 'CS22B1063'),
-> ('E1003', 'CS22B1064'),
-> ('E1003', 'CS22B1066'),
-> ('E1003', 'CS22B1078'),
-> ('E1003', 'CS22B1079'),
-> ('E1003', 'CS22B1099'),
-> ('E1003', 'CS22B2031'),
-> ('E1003', 'EC22B1011'),
-> ('E1003', 'EC22B1019'),
-> ('E1003', 'EC22B1098'),
-> ('E1003', 'EC22B1100'),
-> ('E1003', 'ME22B1011'),
-> ('E1003', 'ME22B1079');
Query OK, 15 rows affected (0.06 sec)
Records: 17  Duplicates: 2  Warnings: 0
```

```
mysql> INSERT IGNORE INTO participates (event_id, id) VALUES
-> ('E1002', 'CS22B1042'),
-> ('E1002', 'CS22B1046'),
-> ('E1002', 'CS22B1063'),
-> ('E1002', 'CS22B1064'),
-> ('E1002', 'CS22B1066'),
-> ('E1002', 'CS22B1078'),
-> ('E1002', 'CS22B1079'),
-> ('E1002', 'CS22B1099'),
-> ('E1002', 'CS22B2031');
Query OK, 8 rows affected (0.04 sec)
Records: 9  Duplicates: 1  Warnings: 0
```

```
mysql> -- Inserting participants for events, ensuring each event has at least three participants
mysql> INSERT IGNORE INTO participates (event_id, id) VALUES
    -> ('EC1024', 'CS22B1066'),
    -> ('EC1024', 'CS22B1078'),
    -> ('EC1024', 'CS22B1079'),
    -> ('EC1024', 'CS22B1099'),
    -> ('EC1024', 'CS22B2031'),
    -> ('EC1024', 'EC22B1011'),
    -> ('EC1024', 'EC22B1019'),
    -> ('EC1024', 'EC22B1098'),
    -> ('EC1024', 'EC22B1100'),
    -> ('EC1024', 'ME22B1011'),
    -> ('EC1024', 'ME22B1079'),
    -> ('EC1024', 'ME22B1099');
Query OK, 10 rows affected (0.07 sec)
Records: 12  Duplicates: 2  Warnings: 0
```

```
mysql> INSERT IGNORE INTO participates (event_id, id) VALUES
    -> ('EC1025', 'EC22B1098'),
    -> ('EC1025', 'EC22B1100'),
    -> ('EC1025', 'ME22B1011'),
    -> ('EC1025', 'ME22B1079'),
    -> ('EC1025', 'ME22B1099'),
    -> ('EC1025', 'ME22B2013');
Query OK, 5 rows affected (0.04 sec)
Records: 6  Duplicates: 1  Warnings: 0
```

```
mysql> -- Inserting participants for events, ensuring each event has at least three participants
mysql> INSERT IGNORE INTO participates (event_id, id) VALUES
    -> ('EC1021', 'CS22B1021'),
    -> ('EC1021', 'CS22B1042'),
    -> ('EC1021', 'CS22B1046'),
    -> ('EC1021', 'CS22B1063'),
    -> ('EC1021', 'CS22B1064'),
    -> ('EC1021', 'CS22B1066'),
    -> ('EC1021', 'CS22B1078'),
    -> ('EC1021', 'CS22B1079'),
    -> ('EC1021', 'CS22B1099'),
    -> ('EC1021', 'CS22B2031'),
    -> ('EC1021', 'EC22B1011'),
    -> ('EC1021', 'EC22B1019');
Query OK, 11 rows affected (0.04 sec)
Records: 12  Duplicates: 1  Warnings: 0
```

```
mysql> alter table leads
      -> add constraint fk_leads_clubs
      -> foreign key (club_id) references clubs(id);
Query OK, 9 rows affected (0.21 sec)
Records: 9  Duplicates: 0  Warnings: 0
```

```
mysql> alter table subsystems
      -> add constraint fk_ss_clubs
      -> foreign key (club_id) references clubs(id);
Query OK, 9 rows affected (0.10 sec)
Records: 9  Duplicates: 0  Warnings: 0
```

```
mysql> alter table events
      -> add constraint fk_events_clubs
      -> foreign key (club_id) references clubs(id);
Query OK, 27 rows affected (0.10 sec)
Records: 27  Duplicates: 0  Warnings: 0
```

```
mysql> alter table members
      -> add constraint fk_mem_clubs
      -> foreign key (club_id) references clubs(id);
Query OK, 15 rows affected (0.07 sec)
Records: 15  Duplicates: 0  Warnings: 0
```

```
mysql> alter table projects
      -> add constraint fk_pro_clubs
      -> foreign key (club_id) references clubs(id);
Query OK, 9 rows affected (0.18 sec)
Records: 9  Duplicates: 0  Warnings: 0
```

```
mysql> ALTER TABLE members
      -> ADD CONSTRAINT fk_mem_pro
      -> FOREIGN KEY (pid) REFERENCES projects(pid);
Query OK, 15 rows affected (0.06 sec)
Records: 15  Duplicates: 0  Warnings: 0
```

```
mysql> alter table clubs
      -> add constraint fk_clubs_sec
      -> foreign key (sec_id) references secretary(sec_id);
Query OK, 9 rows affected (0.07 sec)
Records: 9  Duplicates: 0  Warnings: 0
```

```
mysql> alter table feedback
      -> add constraint fk_feedback_events
      -> foreign key (event_id) references events(event_id);
Query OK, 20 rows affected (0.06 sec)
Records: 20  Duplicates: 0  Warnings: 0
```

```
mysql> alter table feedback
      -> add constraint fk_feedback_people
      -> foreign key (id) references people(ID);
Query OK, 20 rows affected (0.05 sec)
Records: 20  Duplicates: 0  Warnings: 0
```

```
mysql> alter table members
      -> add constraint fk_mem_ss
      -> foreign key (subsystem_id) references subsystems(ss_id);
Query OK, 15 rows affected (0.17 sec)
Records: 15  Duplicates: 0  Warnings: 0
```

```
mysql> alter table members
      -> add constraint fk_mem_ss
      -> foreign key (subsystem_id) references subsystems(ss_id);
Query OK, 27 rows affected (0.11 sec)
Records: 27  Duplicates: 0  Warnings: 0
```

9 Front-end

The screenshot shows a web application for "STUDENT CLUB MANAGEMENT SYSTEM". At the top, there's a navigation bar with "Login" and "About" links. Below the title "STUDENT CLUB MANAGEMENT SYSTEM" is a subtitle: "Unlock the power of student community engagement with the Student Club Management System." A blue "Contacts" button is visible. The main content area includes sections for "About Us" (with a brief description of student clubs at IIITDM), "Gallery" (featuring logos for IIITDM Kancheepuram, SAE AerOTHON 2023, and Team Fujin), and "Events" (listing Samagatha 2024, CVIP 2024, and IIITDM 11th Convocation). At the bottom, there are "Contact Us" and "Follow Us" sections.

This screenshot shows a purple-themed website section listing various student clubs under three categories: CULTURAL, COMPETITIVE, and TECHNICAL. Each club entry includes a name and a "Website" link. The background features a large, abstract blue and green marbled pattern.

CULTURAL	
Music Society	Website
Art Club	Website
Dance Team	Website
Literary Society	Website
COMPETITIVE	
AUV Club	Website
MARS Team	Website
TECHNICAL	
Computer Science Club	Website
Robotics Club	Website
TAD (Talpade Aero Design Club)	Website

The screenshot shows a web application interface for a PIC profile. The URL in the address bar is `localhost:3000/dashPIC`. The main content area has a light green background.

Profile

Name: Santhanam Raghavan
PIC ID: P1000
Clubs:

- CI1000 - music (cultural)
- Cp1000 - SAE (competitive)
- NCP1000 - CP (non-competitive)

music

Open stage-2 [See Participants](#)
Music practise [See Participants](#)

SAE

Introduction to Electric Vehicles [See Participants](#)
Bridge Building [See Participants](#)

CP

Competitive Programming Practise [See Participants](#)

- CS22B1019
- CS22B1021
- CS22B1042
- CS22B1046
- CS22B1063
- CS22B1064
- CS22B1066
- CS22B1078
- CS22B1079
- CS22B1099
- CS22B2031
- EC22B1011
- EC22B1019
- EC22B1098
- EC22B1100
- ME22B1011
- ME22B1079
- ME22B1099

Best programming practice [See Participants](#)
Web development Session-1 [See Participants](#)

USER PROFILE

Personal Information

Name: Aditya Pillai
Email: CS22B1063@iitdm.ac.in

Events

Introduction to Electric Vehicles
ROS Programming
Introduction to Underwater Vehicles
Competitive Programming Practise
Web development Session-1
Introduction to Ethical Hacking
Painting competition

Club Memberships

Cp1001 Subsystem Lead CS1001
NCP1000 Joint Core

About Us

Welcome to the Music Club! We are passionate about all genres of music and aim to create a vibrant community

© 2024 Music Club. All rights reserved.

About Us

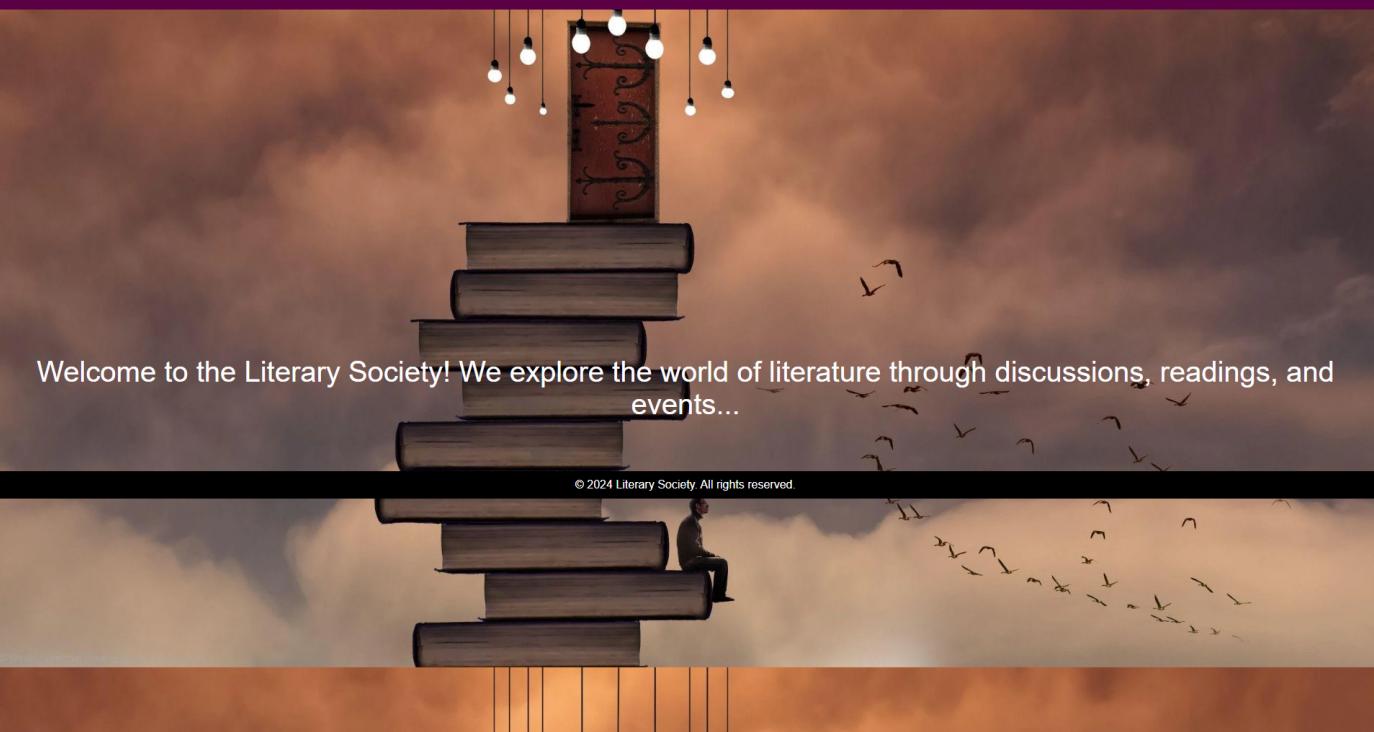
Welcome to the Art Club! We celebrate creativity and artistic expression through various mediums...

© 2024 Art Club. All rights reserved.

About Us

Welcome to the Dance Club! We are dedicated to promoting dance as an art form and fostering a community

© 2024 Dance Club. All rights reserved.



Welcome to the Literary Society! We explore the world of literature through discussions, readings, and events...

© 2024 Literary Society. All rights reserved.



[Home](#) [Upcoming](#) [About](#) [Contact](#)



JOIN THE AUV CLUB

We are a group of undergraduate engineering students collaborating in an interdisciplinary society dedicated to designing and building underwater systems and vehicles for participation in diverse underwater robotics competitions. With a profound understanding of mechanical, electronics, and software engineering, we exploit our theoretical knowledge to create underwater vehicles capable of exploring the expansive ocean depths. *AUV Society's Team Nira has successfully qualified for the renowned MATE-ROV World Championship Internationals. Notably, Team Nira is the sole representative from India at this esteemed event, making their accomplishment all the more remarkable.*

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- [Contact](#)

JOIN THE MARS CLUB

We are Mars Rover Students (MaRS) Club from Indian Institute of Information Technology, Design & Manufacturing, Kancheepuram, a team of 40 interdisciplinary students, interested in building robots and autonomous systems. Currently, we are focusing on building autonomous UGVs (specifically rovers) and robotic arms. Our goal is to build a system that can withstand any possible terrain. Currently, to reach our goals, we, Team SHUNYA (from MaRS Club), are participating in different rover challenges(IRC, URC, ARCH, ERC) at the global level to train our systems. Recently we secured 3rd Rank in Asia (6th Rank Globally) in the Finals of European Rover Challenge (ERC) Remote-Edition & 3rd Rank in India (21st Rank Globally) in the Finals of European Rover Challenge (ERC) Onsite-Edition

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- [About](#)
- [Contact](#)

JOIN THE CS CLUB

Here at the CS Club, we act as a gateway for students to enter the Computer Science Community and Industry. We strive to educate, train, and guide students as they build towards a profession in the CS Industry. We are not just a club, we are an independent body where students learn together, help each other sharpen their skills and create their future in the industry. We help students passionate in the field of Computer Science by providing lectures and activities on the newest branches of Computer Science, training them in the exciting sport of competitive programming.

ACHIEVEMENT: Smart India Hackathon 2023
Team Uncoders from IIITDM Kancheepuram clinches victory at Smart India Hackathon 2023.

GET STARTED

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Contact

JOIN THE ROBOTICS CLUB

Robotics plays a major role in making our day to day life easier. It unifies various branches of engineering and also symbolises the importance of one branch in the other. This promotes hands-on and cooperative learning and also engages students in problem-solving and higher-order thinking. People taking part in the sessions with dedication get exposure to many other areas apart from their syllabus. The organization is centered around a platform for members and non member students with a passion for robotics to come together and develop projects in the domain of robotics and to also act as a channel for various students to come together to participate in multiple robotics-based competitions. "Inspire, Introduce, Initiate" is the mantra of the club.



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Contact

JOIN THE TAD CLUB

TAD Club (Talpade Aero Design Club) at IITDM Kancheepuram is a new and dynamic student organisation that is dedicated to the world of aero design. Our club brings together passionate engineering minds with a shared vision - to design, innovate, and contribute to the field of aeronautics. We aim to design and construct high-performance RC planes with an eye for precision and innovation. These planes are developed to excel in various national-level aeromodeling contests. Our club brings together like minded individuals who are passionate about designing cutting-edge RC planes and aero design vehicles.

Achievement: The team has qualified to the finals of IIT Boeing Aeromodelling Competition held at Shastra, IIT Madras from January 3 -7, 2024.



[GET STARTED](#)

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[Dashboard](#)

[Your Queries](#)

[Settings](#)

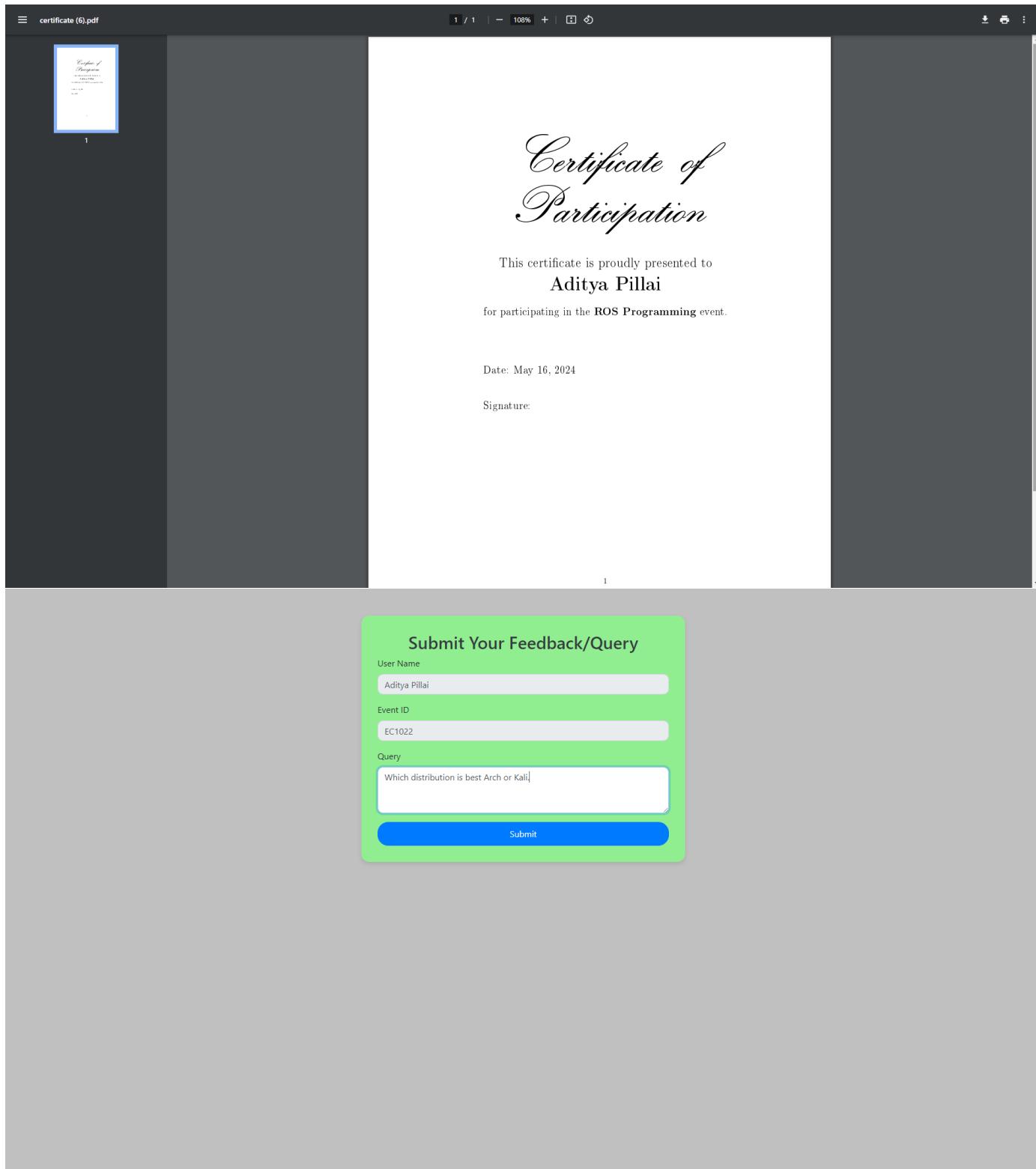
[Logout](#)

Events

Events			
Introduction to Electric Vehicles 18:00:00 - 20:00:00 H15 Certificates not available	ROS Programming 20:30:00 - 22:00:00 H42 Certificates available	Introduction to Underwater Vehicles 14:45:00 - 15:30:00 H42 Certificates not available	Competitive Programming Practise 18:30:00 - 20:30:00 H15 Certificates available
Introduction to Git and Github 14:30:00 - 17:30:00 H05 Certificates available	Open stage-1 19:00:00 - 22:00:00 H05 Certificates available	Dance Practise-1 20:00:00 - 21:00:00 H05 Certificates available	Art made easy 21:00:00 - 22:00:00 H05 Certificates available
Book reading session 19:30:00 - 21:30:00 H15 Certificates available	Bridge Building 14:30:00 - 18:30:00 H42 Certificates available	Rover racing 19:30:00 - 21:45:00 H15 Certificates available	Shell Scripting 19:30:00 - 22:00:00 H42 Certificates available
Best programming practice 20:30:00 - 21:30:00 H42 Certificates not available	Bug Hunt practice 20:00:00 - 22:00:00 H15 Certificates available	Open stage-2 19:00:00 - 21:00:00 H24 Certificates not available	Dance practise-2 16:30:00 - 18:00:00 H15 Certificates not available
Imaginary art	Debate competition	Prototyping workshop	Mastering the terminal

Navigation

Welcome Aditya Pillai	
Dashboard Profile Apply Now Your Queries Settings Logout	Events Participated: <ul style="list-style-type: none"> <li style="background-color: #2e71a1; color: white; padding: 5px;">ROS Programming Start Time: 20:30:00 End Time: 22:00:00 Venue: H42 Click to download Certificate + Feedback/Query <li style="background-color: #2e71a1; color: white; padding: 5px;">Introduction to Underwater Vehicles Start Time: 14:45:00 End Time: 15:30:00 Venue: H42 + Feedback/Query <li style="background-color: #2e71a1; color: white; padding: 5px;">Competitive Programming Practise Start Time: 18:30:00 End Time: 20:30:00 Venue: H15 Click to download Certificate + Feedback/Query <li style="background-color: #2e71a1; color: white; padding: 5px;">Web development Session-1 Start Time: 13:00:00 End Time: 15:00:00 Venue: H01 + Feedback/Query <li style="background-color: #2e71a1; color: white; padding: 5px;">Introduction to Ethical Hacking Start Time: 19:00:00 End Time: 21:45:00 Venue: H01 + Feedback/Query <li style="background-color: #2e71a1; color: white; padding: 5px;">Painting competition Start Time: 20:00:00 End Time: 21:00:00 Venue: H11 Click to download Certificate + Feedback/Query



Aditya Pillai

CS22B1063

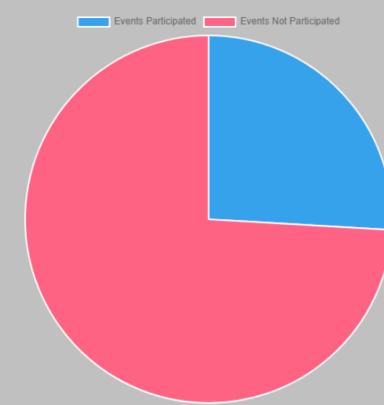
Dashboard

Your Queries

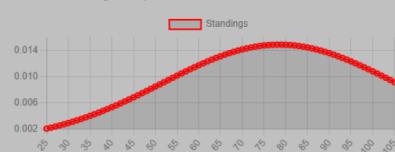
Settings

Logout

Participation this Year



Your Standings: Top 6.1%



User Rank

Rank: 4

User Points

Points: 100

Events Participated

Number of Events: 7

Position(s) in Club

MARS-Subsystem Lead
CP-Joint Core

Leaderboard

Rank	Name	Points
1	keerthana	105
2	jyostna	105
3	ajitha arvindh	105
4	radha	100
5	ravi krishnan	100

Recruitment Drive 2024

Name:

Aditya Pillai

ID:

CS22B1063

Club:

music

Position:

Member

Submit

Your Queries

Query

Encountered a ROS node crash while testing. Unable to identify the cause.

Response

Check your launch files for any incorrect node names or topics. Also, verify that your nodes are correctly subscribing and publishing to the required topics.

Query

Which distribution is best Arch or Kali.

Your query is currently under review, and we're committed to providing you with a timely response. Thank you for your patience.

LOGIN

Email:

CS22B1063@iitdm.ac.in

Password:

.....

Role:

Student

Login

Don't have an account? [Register here.](#)

REGISTER

Name:

ID:

Password:

Confirm Password:

Register

Already have an account? [Login here.](#)

Student Dashboard

Profile
View and update your profile information.

Student Clubs
Explore and join student clubs.

Events
Discover upcoming events and activities.

Achievement Tracking
Track your academic and extracurricular achievements.

Thought of the Day

Knowledge comes, but wisdom lingers. It may not be difficult to store up in the mind a vast quantity of facts within a comparatively short time, but the ability to form judgments requires the severe discipline of hard work and the tempering heat of experience and maturity.

May - 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

The screenshot shows a Gmail inbox with 2,184 messages. The current message is an external email from adityapillai786@gmail.com with the subject "Feedback/Query for EC1022". The message content is:

Name: Aditya Pillai
ID: CS22B1063
Event ID: EC1022
Feedback/Query: Which distribution is best Arch or Kali.

Below the message are "Reply" and "Forward" buttons.

The screenshot shows a Gmail inbox with 2,184 messages. The current message is an external email from adityapillai786@gmail.com with the subject "Recruitment Drive 2024 Application". The message content is:

Name: Aditya Pillai
ID: CS22B1063
Club: NCP1001
Position: Joint Core

Below the message are "Reply" and "Forward" buttons.

Schedule Events

Club ID (Read-only)

NCP1001

Event ID

E1200

Event Name

Forking in Github

Start Time

16-05-2024 12:22

End Time

16-05-2024 18:22

Certifiability

No

Credits

2

Venue

H15

Submit

Delete Event

Event ID

E1200

Delete

Navigation

- Dashboard
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- Apply Now
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- Schedule Events
- Delete Events
- Settings
- Logout

Welcome Aditya Pillai

Events Participated:

ROS Programming

Start Time: 20:30:00
End Time: 22:00:00
Venue: H42

[Click to download Certificate](#) [+ Feedback/Query](#)

Introduction to Underwater Vehicles

Start Time: 14:45:00
End Time: 15:30:00
Venue: H42

[+ Feedback/Query](#)

Competitive Programming Practis

Start Time: 18:30:00
End Time: 20:30:00
Venue: H15

[Click to download Certificate](#) [+ Feedb](#)

Web development Session-1

Start Time: 13:00:00
End Time: 15:00:00
Venue: H01

[+ Feedback/Query](#)

Introduction to Ethical Hacking

Start Time: 19:00:00
End Time: 21:45:00
Venue: H01

[+ Feedback/Query](#)

Painting competition

Start Time: 20:00:00
End Time: 21:00:00
Venue: H11

[Click to download Certificate](#) [+ Feedb](#)

10 SQL Queries used in the backend

```
SELECT * FROM people WHERE email='$email' AND password='$password'
```

```
INSERT INTO people (id, password, email, points, name) VALUES (?, ?, ?, 0, ?)
```

```
SELECT * FROM events
```

```
SELECT people.name AS user_name, events.event_name, events.start_time,
events.end_time, events.venue, events.certifiability,events.event_id
    FROM events
    INNER JOIN participates ON events.event_id = participates.event_id
    INNER JOIN people ON participates.id = people.id
    WHERE participates.id = '$user_id'
```

```
SELECT id, name FROM clubs
```

```
SELECT DISTINCT position FROM members
```

```
SELECT name FROM people WHERE ID = '$uid'
```

```
INSERT INTO feedback (query, response, date, event_id, id) VALUES ('$query',
'', '$date', '$event_id', '$uid')
```

```
SELECT query, response FROM feedback WHERE id = '$user_id'
```

```
SELECT id, name FROM clubs
```

```
SELECT leads.id as X from leads where leads.club_id = '$club_id'
```

```
SELECT leads.id as X
      FROM leads
      JOIN events ON leads.club_id = events.club_id
      WHERE events.event_id = '$evid'
```

```
SELECT COUNT(*) AS rank FROM people WHERE points > '$points'
```

```
SELECT members.position, clubs.name AS club_name
      FROM members
INNER JOIN clubs ON members.club_id = clubs.id
 WHERE members.id = '$user_id'
```

```
SELECT COUNT(*) AS num_events FROM participates WHERE id = '$user_id'
```

```
SELECT COUNT(*) as te FROM events
```

```
SELECT points FROM people
```

```
SELECT name, points FROM people ORDER BY points DESC LIMIT 5
```

```
SELECT pic_id,pic_name FROM pic WHERE pic_id = ?;", [id]
```

```
SELECT id,name,type FROM clubs WHERE pic_id = ?;", [id],
```

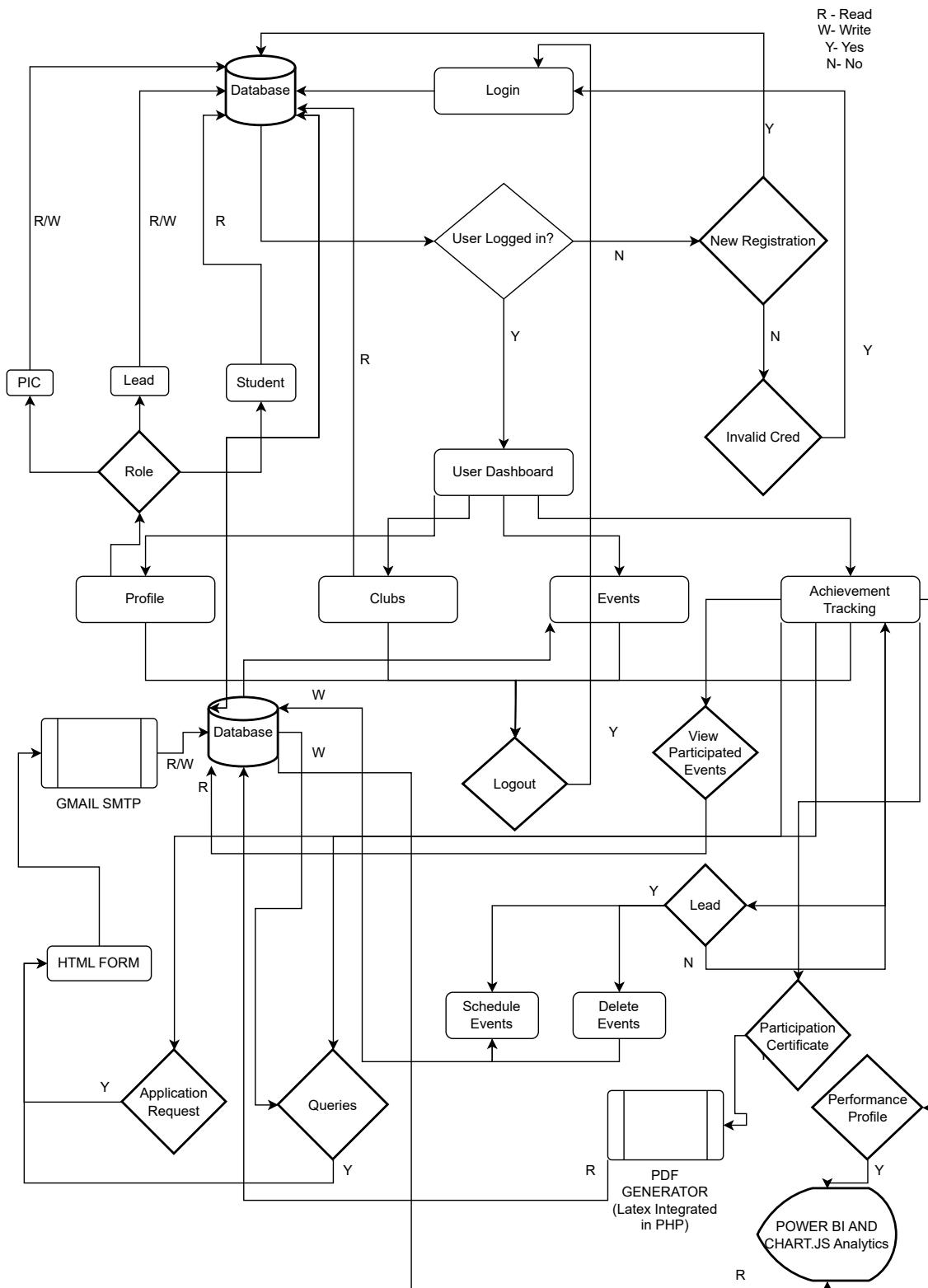
```
select c.name,e.event_name,p.id from clubs c join events e on c.id=e.club_id join
participates p on e.event_id=p.event_id where c.pic_id=?;",[id],
```

```
SELECT name, email FROM people WHERE ID = ?
```

```

`          SELECT e.event_id, e.event_name
      FROM events e
 JOIN participates p ON e.event_id = p.event_id
 WHERE p.ID = ?
 `;
`          SELECT m.club_id, m.position, m.subsystem_id
      FROM members m
 WHERE m.ID = ?
 `;
```

11 Workflow diagram



CODE SNIPPETS FOR CERTAIN FUNCTIONALITIES IN THE PROJECT

A Code Snippet from The Backend(PHP) for Database Connection (common across all source codes):

```
// Database connection parameters
$servername = "sql6.freesqldatabase.com";
$username = "sql6705819";
$password = "hLLrdKwXFB";
$dbname = "sql6705819";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection
if ($conn->connect_error)
{
    die("Connection failed: " . $conn->connect_error);
}

// Fetch user's queries and feedback from the feedback table
$user_id = $_SESSION["user_id"];
$sql = "SELECT query, response FROM feedback WHERE id = '$user_id'";
$result = $conn->query($sql);
?>
```

A Code Snippet for API integration (Thought of the day in the dashboard):

```
<script>
    // Fetch thought of the day from Quotable API
    fetch('https://api.quotable.io/random')
        .then(response => {
            if (!response.ok)
            {
                throw new Error('Network response was not ok');
            }
            return response.json();
        })
        .then(data => {
            document.querySelector('.thought-text').textContent =
data.content;
        })
        .catch(error => {
            console.error('Error fetching thought:', error);
            document.querySelector('.thought-text').textContent = 'Failed
to fetch thought';
        });
</script>
```

A code snippet for automated Pdf Generation(Certificate):

```
<?php
$user_name = isset($_GET['user_name']) ? htmlspecialchars($_GET['user_name'])
: '';
$event_name = isset($_GET['event_name']) ?
htmlspecialchars($_GET['event_name']) : '';
// latex
$current_date = date('F j, Y');
$latex_content = '\documentclass{article}
\usepackage[utf8]{inputenc}
\usepackage[T1]{fontenc}
\usepackage{calligra}

\author{}
\date{}

\begin{document}
{\centering\fontsize{50}{60}\selectfont\calligra\textbf{Certificate of
Participation}\par}
\vspace{1cm}
{\centering\LARGE This certificate is proudly presented to\
\Huge \textbf{[USER_NAME]}\par}
\vspace{0.5cm}
{\centering\Large for participating in the \textbf{[EVENT_NAME]} event.\par}
\vspace{2cm}
\Large Date: [CURRENT_DATE]
\vspace{1cm}
Signature:
\end{document}';

// Replace the user and event names
$latex_content = str_replace('[USER_NAME]', $user_name, $latex_content);
$latex_content = str_replace('[EVENT_NAME]', $event_name, $latex_content);
$latex_content = str_replace('[CURRENT_DATE]', $current_date, $latex_content);
// Write modified latex content to a temporary file
$temp_latex_file = tempnam(sys_get_temp_dir(), 'certificate');
file_put_contents($temp_latex_file . '.tex', $latex_content);

// Compiling the latex document to PDF using pdflatex
$output = shell_exec("pdflatex -interaction=nonstopmode -output-directory=" .
escapeshellarg(sys_get_temp_dir()) . " " . escapeshellarg($temp_latex_file .
'.tex'));

// Check if pdf generation was successful
if (!file_exists($temp_latex_file . '.pdf')) {

    exit('PDF generation failed');
}
```

A code snippet for Automated Mail Transfer using SMTP :

```
include('smtp/PHPMailerAutoload.php');

echo smtp_mailer($club_lead_email, 'Recruitment Drive 2024 Application',
    'Name: ' . $uname . '<br>' .
    'ID: ' . $uid . '<br>' .
    'Club: ' . $club_id . '<br>' .
    'Position: ' . $position
);

function smtp_mailer($to,$subject, $msg){
    $mail = new PHPMailer();
    $mail->IsSMTP();
    $mail->SMTPAuth = true;
    $mail->SMTPSecure = 'tls';
    $mail->Host = "smtp.gmail.com";
    $mail->Port = 587;
    $mail->IsHTML(true);
    $mail->CharSet = 'UTF-8';
    $mail->Username = "adityapillai786@gmail.com"; //Senders Mail Address
    $mail->Password = "***** * * * * *";
    $mail->SetFrom("adityapillai786@gmail.com");
    $mail->Subject = $subject;
    $mail->Body = $msg;
    $mail->AddAddress($to);
    $mail->SMTPOptions=array('ssl'=>array(
        'verify_peer'=>false,
        'verify_peer_name'=>false,
        'allow_self_signed'=>false
    ));
    if(!$mail->Send()){
        echo $mail->ErrorInfo;
    }else{
        return 'Your Application has been submitted';
    }
}
```

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