

UiTM Raub Club Registration System Software Development Plan (SDP)

SEMESTER MARCH-AUGUST 2024

GROUP: CDCS1104E

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UITM Raub Club Registration System	Version: 1.1
Software Development Plan (SDP)	Date: 5/5/2024
Luqman Hanis Daniel bin Khailmi	

Revision History

Date	Version	Description	Author
3/5/2024	1.1	Fixed the SWOT analysis' subject	Luqman Hanis Daniel bin Khailmi

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1. Introduction

1.1 History of Organization

Universiti Teknologi MARA (UiTM) is the biggest comprehensive university in Malaysia, offering a wide range of courses that includes business, technology, and sciences. It has a total of 34 campuses, 14 faculties, and 9 academic centres all over the nation. UiTM also offers over 500 academic programmes at Foundation, Pre-Diploma, Diploma, Bachelor's, Master's, and PhD level.

UiTM Raub, one of the UiTM's branches in Pahang started operating at the end of 2015. There are several faculties consists of Faculty of Laws, the Language Studies Academy, Faculty of Computer Science and Mathematics and Contemporary Islamic Studies Academy.

Based on UiTM's official website, there are a total of 2842 full time students that is currently pursuing their studies in UiTM Raub. Apart from the high number of students, UiTM Raub also has many clubs and organizations that is actively managed by students itself. Although it has an established club system, there is no centralized place for clubs activities.

Vision

To establish UiTM as a Globally Renowned University of Science, Technology, Humanities and Entrepreneurship.

Mission

To lead the development of agile, professional bumiputeras through state-of-the-art curricula and impactful research.

Table 1 below shows the SWOT analysis of the proposed project's system

Strength	Weakness
Ease club managers to manage club member registration and make it easier for students to register at their desired club.	It requires an effective handling of sensitive information and security and compatibility across multiple devices and browser
Opportunities	Threats
It can serve as a platform to improve community engagement among students beside make it easier for students to take part in social activities	High development requirements like website building knowledge and deployment cost may cause several limitation to this project

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1.2 Organizational Chart

(See Appendix A)

1.3 Current System Description

Clubs and organizations typically use social media platforms like Whatsapp and Instagram to recruit new members, promote events, and make announcements. New students also depended on senior recommendations or announcements to learn about campus groups and organizations. They might also see posters or fliers advertising club activities or recruitment campaigns. Once students are aware of the existence of multiple clubs, they must conduct individual study on each club's missions, activities, and membership requirements. This may include attending club fairs or information sessions organized by the clubs.

After selecting clubs of interest, students should contact the club administrators to inquire about membership and forthcoming activities. This could include sending emails or messages using social media sites such as WhatsApp or Facebook. Clubs frequently held recruitment drives or orientation events in which interested students may learn more about the organization and its activities. These gatherings allowed students to engage with current members and ask questions regarding membership requirements and expectations.

Once students decided to join a club, they typically had to fill out membership forms or applications. In some cases, club administrators might use tools like Google Forms to collect necessary information from interested students. Accepted students received confirmation of their membership status from the club administrators. They were then officially welcomed into the club and provided with information about upcoming events, meetings, and activities.

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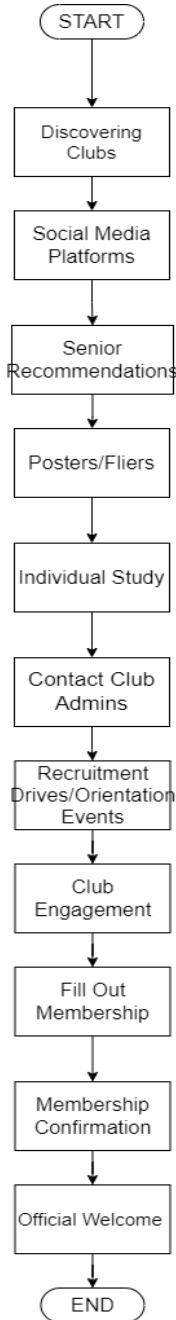


Figure 1 : Flow chart of the current system

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1.4 Current System Problem

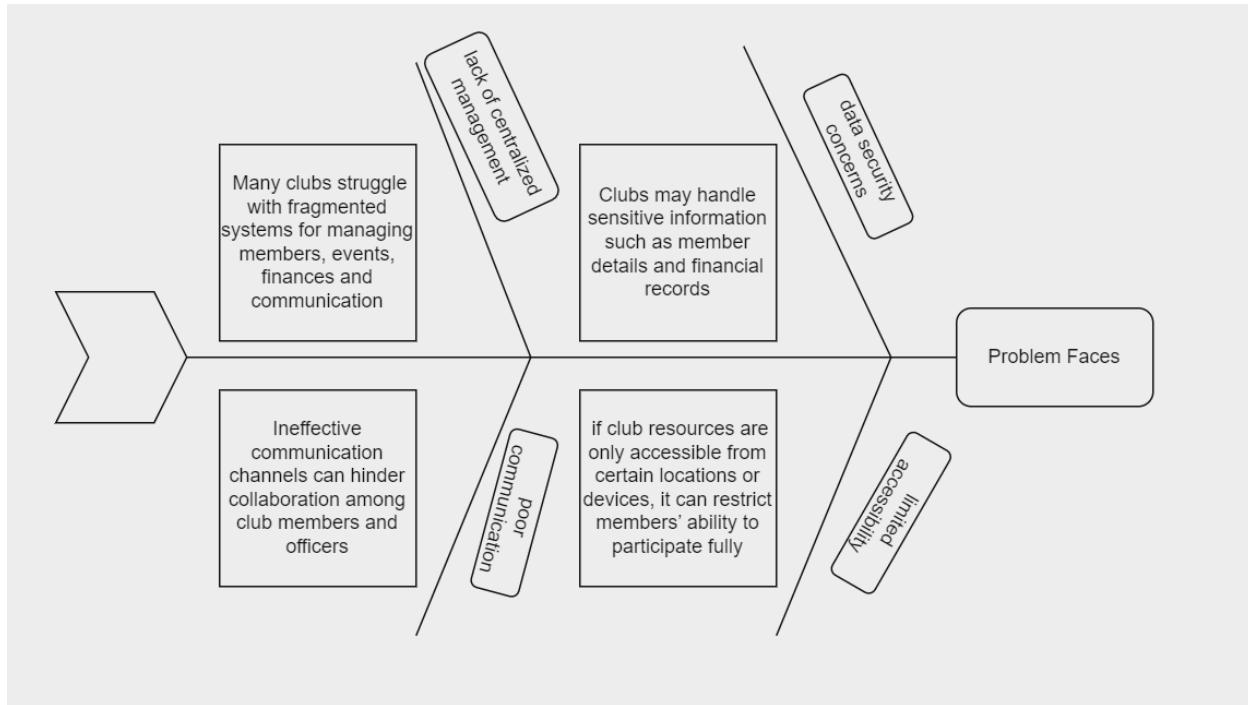


Figure 2: Fishbone diagram based on the current system

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2. Proposed Project Overview

2.1 Proposed System Process

Students

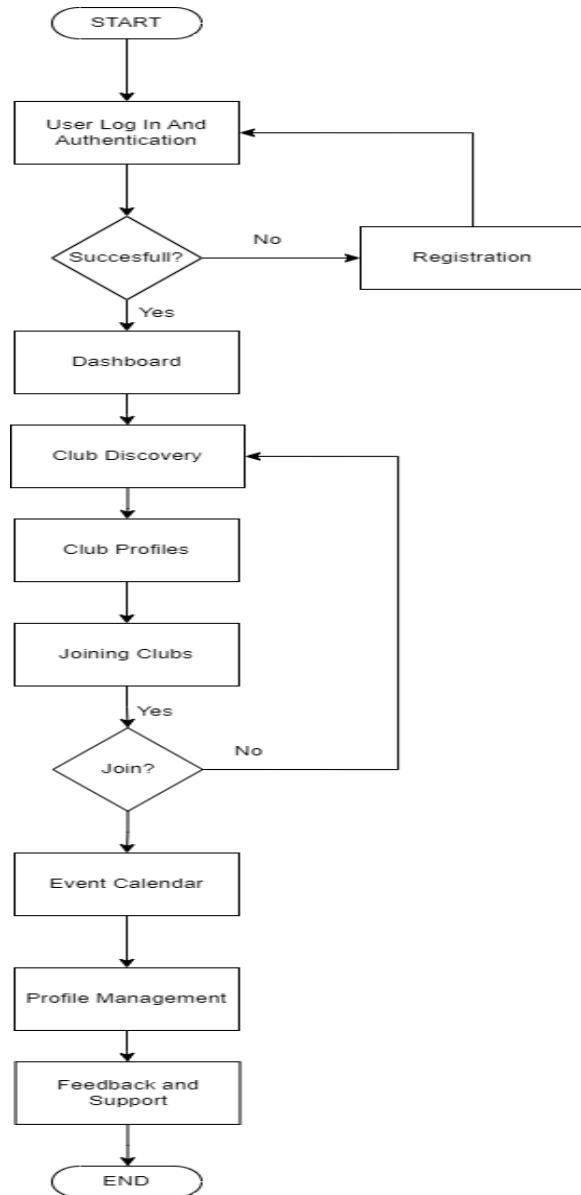


Figure 3: Flow chart of the proposed system for students

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Administrators

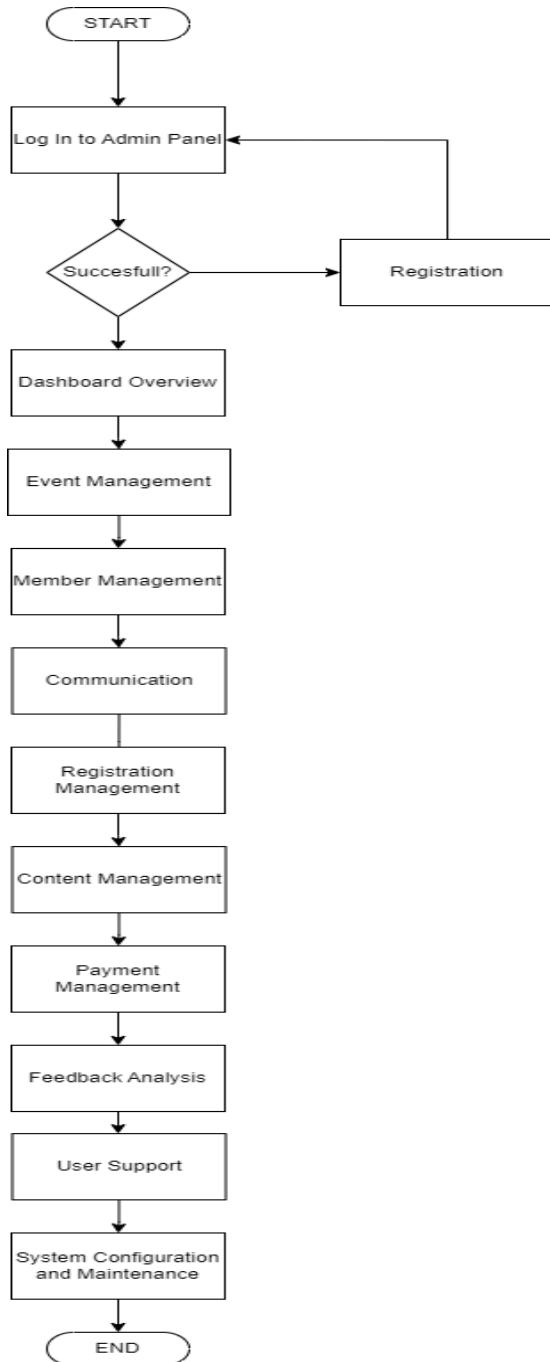


Figure 4: Flow chart of the proposed system for administrator

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Head Management

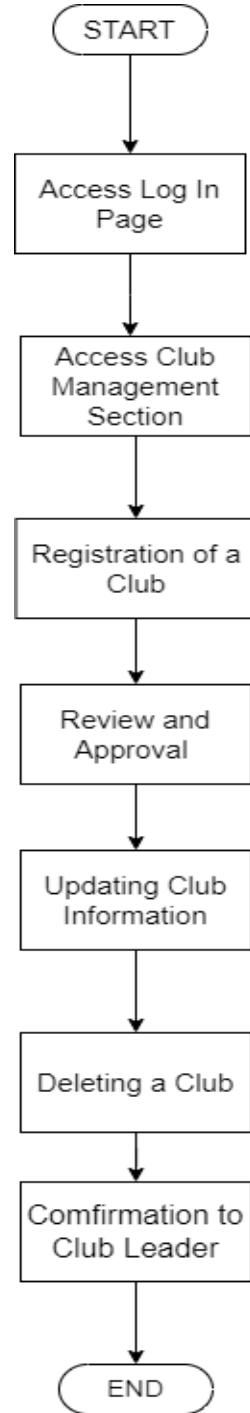


Figure 5 : Flow chart of the proposed system for Head Management

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2.2 Proposed System Objectives

1. **Centralized Management:** Create a unified platform that enables centralized management of all club activities, including member management, event planning, and communication..
2. **Enhanced Communication:** Implement robust communication features to facilitate seamless interaction among club members, officers, and stakeholders. This include real-time messaging, event announcements and discussion forums.
3. **Streamlined Administrations:** Reminding administrative tasks such as member registration, event scheduling, and financial reporting to improve efficiency and reduce manual workload for club officers.
4. **Enhanced Security:** Implement robust security measures to safeguard sensitive club data, including member information and financial records, from unauthorized access or data breaches.
5. **Improved Accessibility:** Develop a user-friendly system that is accessible from various devices and locations, ensuring all members can easily participate and access club resources.

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2.3 Proposed System Scopes

1. Students:

All UiTM Raub students can access to register and find any information about the club that they interested to join.

2. Club Administrators:

Club presidents and moderators can update club's information, event schedule and other information related to the club.

3. Head Management:

UiTM Raub's Student Affairs can register, modify or delete clubs.

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2.4 Proposed System Entity and Attributes

(See Appendix B)

1. USERS

- user_id (PK)
- email
- password

2. CLUBS

- club_id (PK)
- club_name
- cat_id (FK)

3. USER_CLUBS

- date_joined
- user_id (FK)
- club_id (FK)

4. CATEGORY

- cat_id (PK)
- cat_name

5. ANNOUNCEMENT

- ann_id (PK)
- content
- club_id (FK)

6. MEDIA

- media_id (PK)
- media_url
- club_id (FK)

7. EVENTS

- event_id (PK) - description
- event_name - club_id (FK)

8. REVIEWS

- rev_id (PK) - club_id (FK)
- comment - user_id(FK)
- rating

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3. Project Organization

3.1 Organizational Structure



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3.2 Roles and Responsibilities

	Name	Role	Responsibilities
	Luqman Hanis Daniel bin Khailmi	Project Manager	<ul style="list-style-type: none"> - Develops project plans and timeline. - Communicate with the supervisor in terms of project development progress. - Ensure the project follows the standards and requirements.
	Muhammad Izwan bin Mohd Sharil	Database Designer	<ul style="list-style-type: none"> - Design the database model - Determine the entities and relationships that were required in the database. - Responsible for backend development.
	Aziq Hilman bin Abdul Rahim	Programmer 1	<ul style="list-style-type: none"> - Analyze the current system that is being used. - Design the proposed system flow - Responsible in designing system architecture
	Ahmad Azib bin Azmi	Programmer 2	<ul style="list-style-type: none"> - Determine the proposed system's requirements - Analyze the problems that exist in the current system. - Responsible for backend development.

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4. Management Process

4.1 Project Plan

(See Appendix C)

The project will undergo five phases of development, which consist of planning, analysis, design, implementation, and testing. Firstly, after the team is formed, a meeting will be conducted by Luqman as the project manager to determine the details about the system that need to be developed, including the current system description and problems, the proposed system's scope and objectives, and task distribution among team members. A Software Development Plan (SDP) will be submitted to the supervisor at the end of this phase.

In the analysis phase, the team will be required to develop a data model and other analysis models, such as a data flow diagram, that will be conducted by Aziq Hilman and Izwan, who are responsible for designing system architecture and database design. At the end of this phase, the Software Requirement Specification's (SRS) report will be submitted.

After that, a physical model will be constructed, which means that the project has reached the design phase. The website interface's storyboard will be created to determine the flow of the system that will be built. The design phase will be conducted by Luqman, and the tools and software required will be chosen. The Software Design Description's (SDD) report will be submitted during this phase.

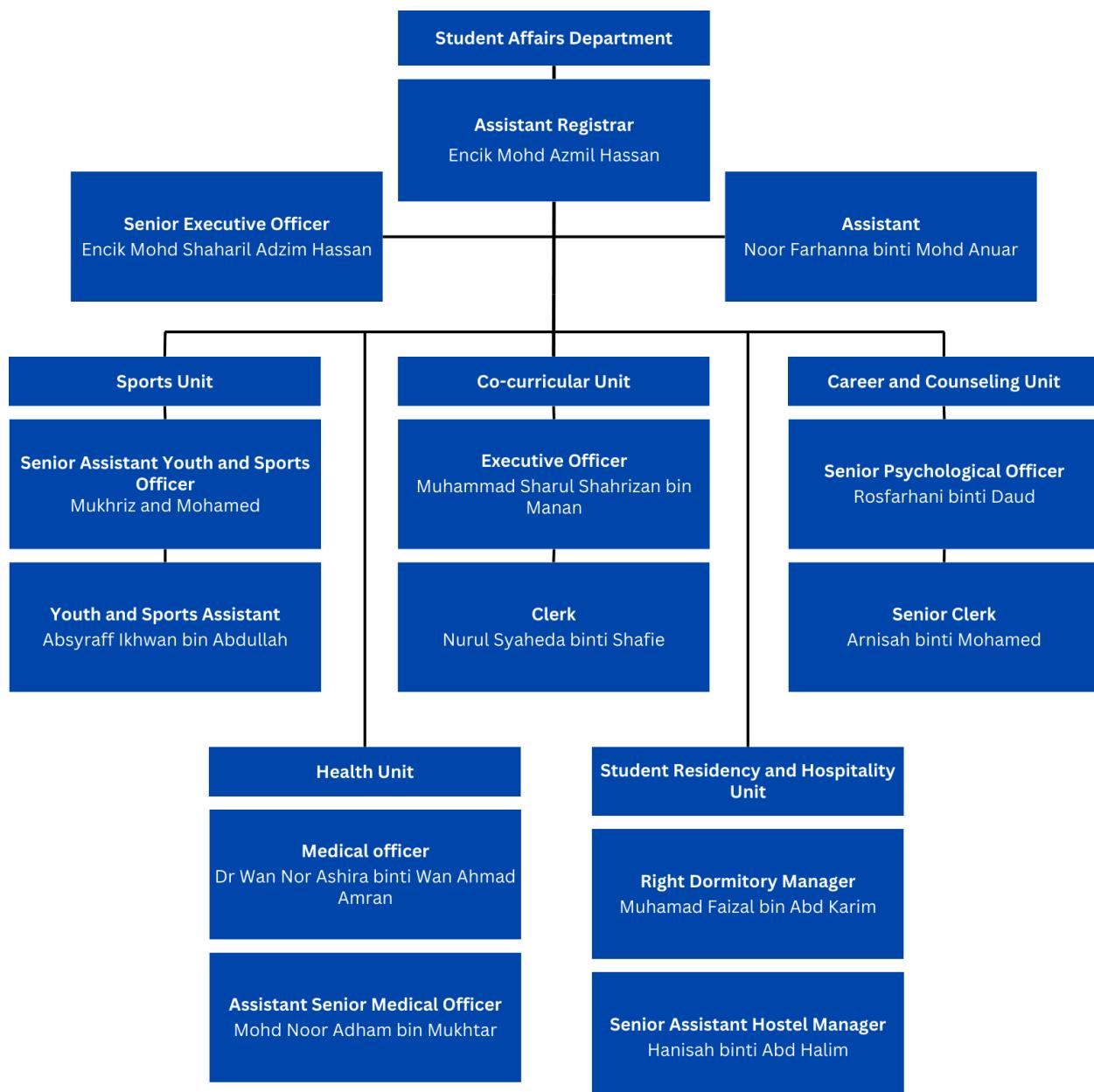
Next, in the implementation phase, the frontend, which is the website's interface, will be developed together with the backend, which consists of the website's functionality and database. The frontend will follow the design and guide from the website interface storyboard, while the backend will follow the specifications of the database that will be conducted by Azib as the backend developer.

Finally, the system will be tested in terms of usability and compatibility to make sure it can run smoothly. The security of the system will also be tested to ensure the safety of sensitive information. After that, the software test documentation (STD) will be submitted, and the team will review and maintain the system to ensure all the functionality and goals are achieved. The final report will be submitted on week 14 as the conclusion of this project.

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Appendix A

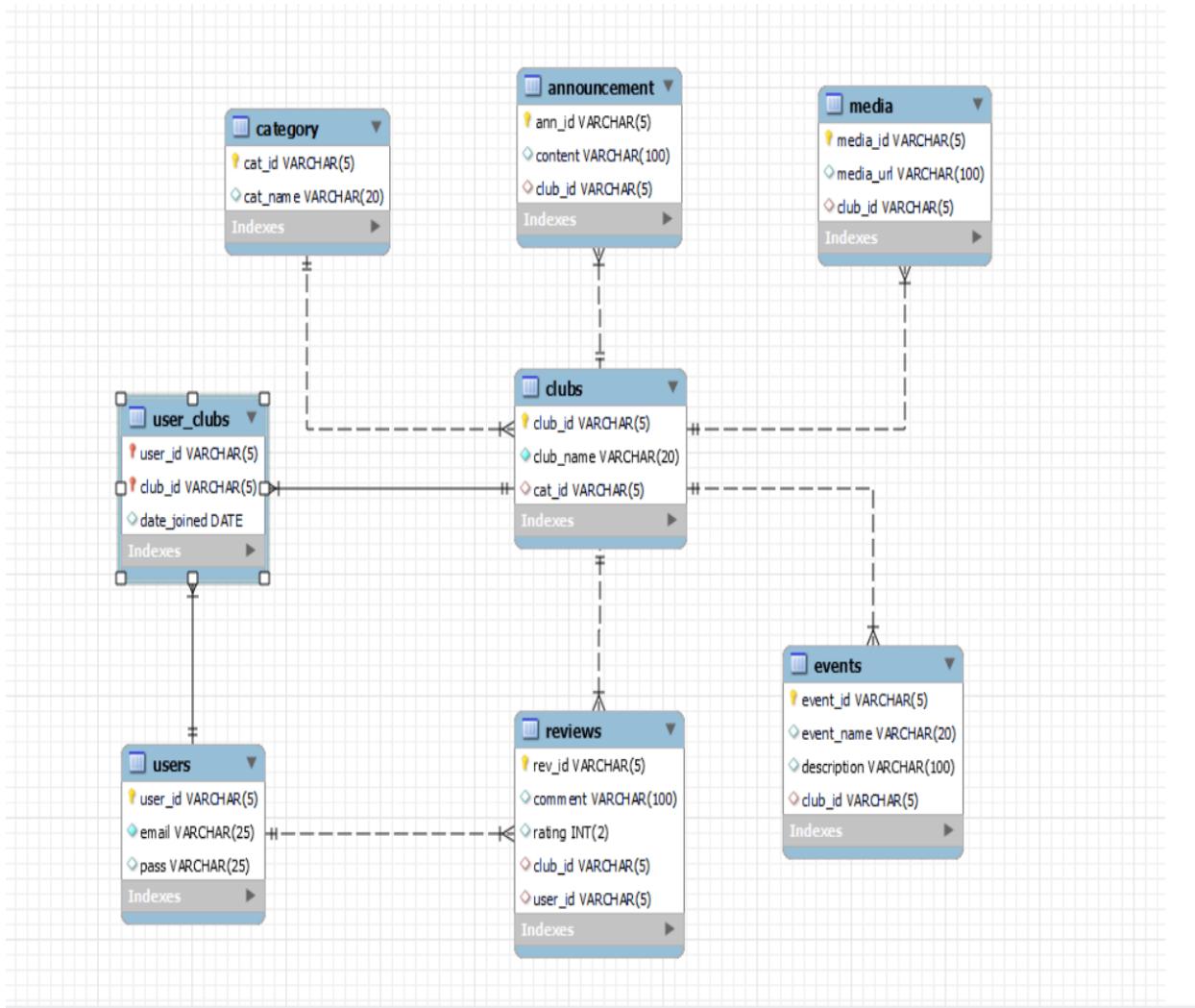
Organizational Chart



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Appendix B

Entity Relationship Diagram



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Appendix C

Gantt Chart

