

UiTM Raub Club Registration System Final Report

SEMESTER MARCH-AUGUST 2024

GROUP: CDCS110 4E

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Final Report	Date : 10/7/2024
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Revision History

Date	Version	Description	Author

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1. Introduction

1.1 Purpose

This final report is prepared as a conclusion to the project that has been developed, which is the UiTM Raub Club Registration System. It contains necessary information regarding the backbone of the system such as project's scope and objectives, list of developers that collaborate in developing this project, the database's entity relationship diagram and data flow diagram that consists of context diagram and diagram o. This document is important for future development including system update and enhancement.

1.2 References

- Shukla, S. (2024, May 9). *Top 10 Web Development Frameworks for 2024*. Intelivita.
<https://www.intelivita.com/blog/best-web-development-frameworks/>
- Pandey, S. (2022, November 30). *A Beginner's guide to mobile responsive design* | BrowserStack.
<https://www.browserstack.com/guide/mobile-responsive-design-guide#:~:text=Mobile%20Responsive%20design%20includes%20scaling,the%20screen%20size%20is%20reduced.>

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2. Project Overview

2.1 Project System Process

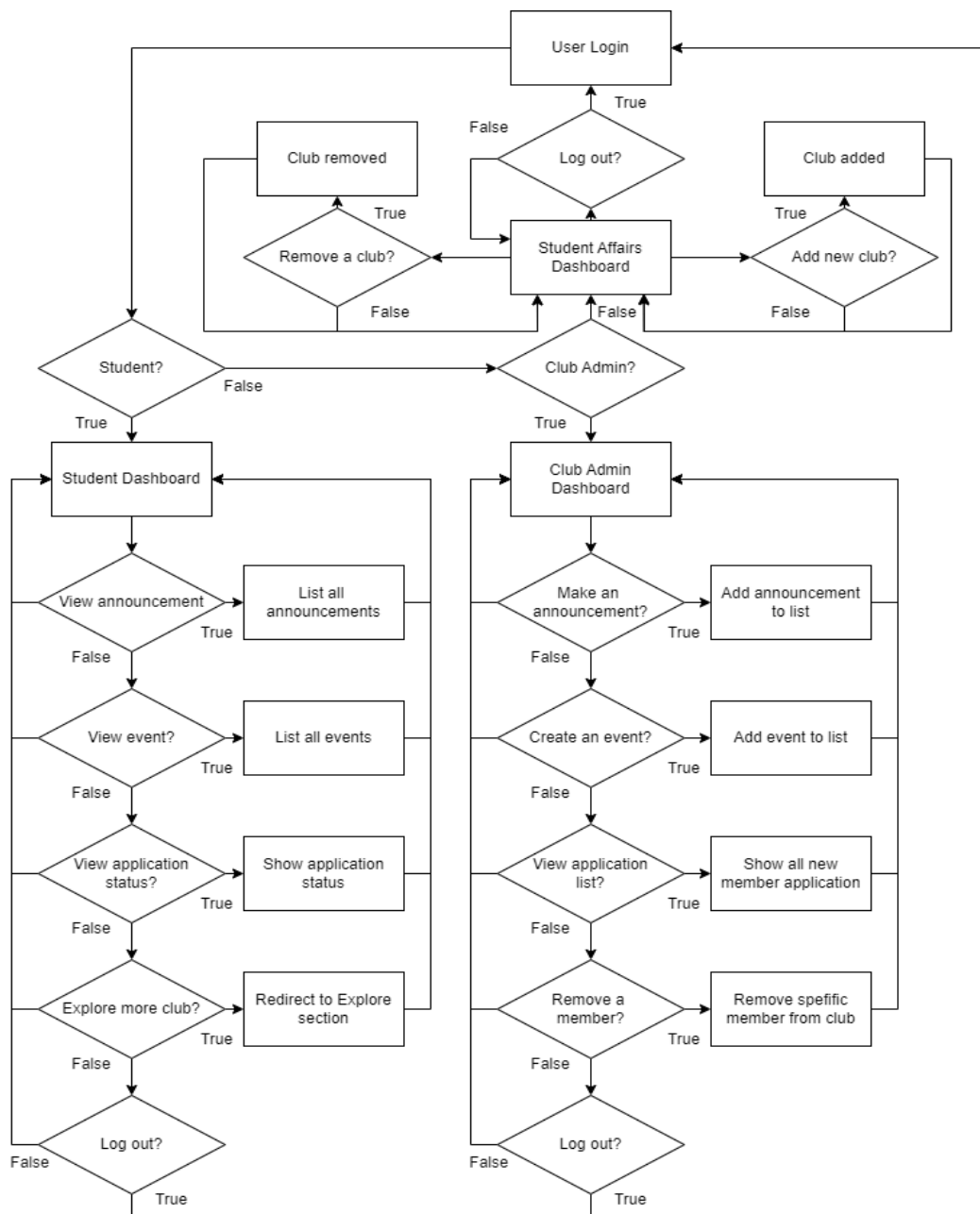


Diagram 2.1: Flow chart of the system

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2.2 Project Scope

The system consists of three main types of users, which are student, club admin and student affairs. Each type of user has their own functionalities and limitations.

1. Student

A student may be able to explore and join any club and view all announcements and events from joined clubs. They are restricted from adding any instances into the system such as club announcements.

2. Club admin

A club admin may be able to approve or decline any new member application into the club. They also can view, add and delete club's announcement and events. They don't have any functionalities to join any club as it is mainly used for club management.

3. Student affairs

A student affairs may be able to add, view and delete any clubs, students, announcements and events from the system. It also doesn't have the capabilities to join any club as it is mainly used for managing the system.

2.3 Project Objectives

1. Centralized club management

Create a unified platform that enables centralized management of all club activities, including member management, event planning and communication.

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2. 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.

3. Enhanced communication

Implement robust communication features to facilitate seamless interaction between club admin and club members. This includes event announcements and instant contact.

2.4 Assumptions and constraints

1. Internet access is required.

Since the UiTM Raub Club Registration System is a web-based application, it requires the user to have a connection to the internet.

2. Not mobile friendly

The interface of the UiTM Club Registration System is only available for desktop view as the system's interface is not yet optimized for mobile devices.

3. Role-specific access

Each type of user has their own functionalities and limitations while using the system. For example, a student might not be able to create a club while a club admin may not be able to join any club.

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2.5 Project deliverables

The project has undergone five phases of development, which consist of planning, analysis, design, implementation, and testing. Firstly, after the team is formed, a meeting has been 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) has been submitted to the supervisor at the end of this phase, which is in week 6.

In the analysis phase, the team has developed a data model and other analysis models, such as a data flow diagram, that were 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 is submitted in week 8.

After that, a physical model is constructed, which means that the project has reached the design phase. The website interface's storyboard has been created to determine the flow of the system that will be built. The design phase was conducted by Luqman, and the tools and software required were also chosen. The Software Design Description's (SDD) report has been submitted during this phase in week 10.

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

Finally, the system was tested in terms of usability and compatibility to make sure it could run smoothly. The security of the system was also tested to ensure the safety of sensitive information. After that, the software test documentation (STD) was submitted in week 12, and

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the team reviewed and maintained the system to ensure all the functionality and goals were achieved. The final report was planned to be submitted in week 14 or week 15.


3. Project Organization

3.1 Organizational Structure







Figure 3.1: Organizational structure

3.2 Roles and Responsibilities

	Name	Role	Responsibilities
	Mohd Azim bin Zainal	Supervisor	<ul style="list-style-type: none"> Guide the project member to develop the project. Monitor the project's progress

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	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. Database and System Design

4.1 Entity Relationship Diagram

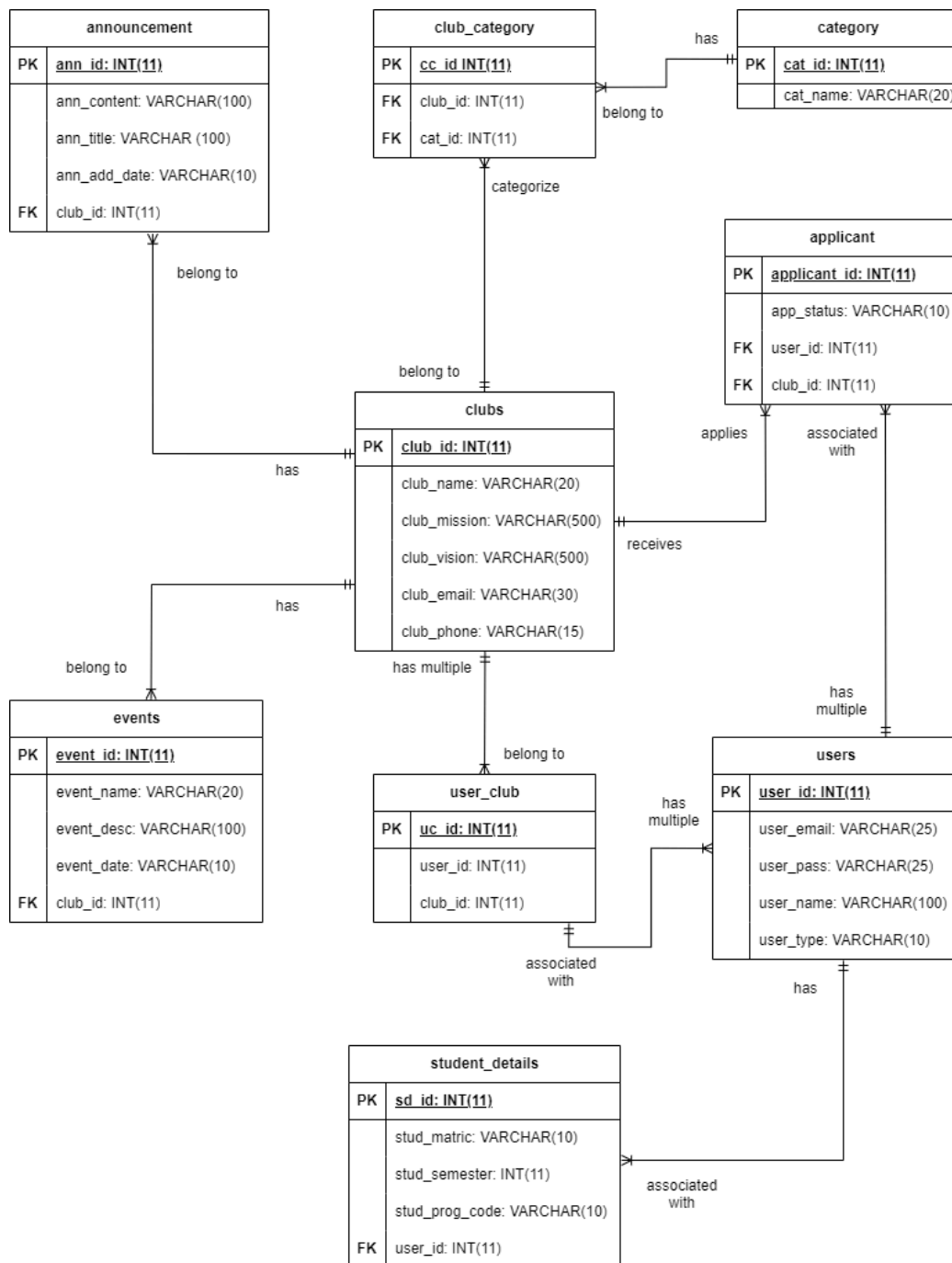


Diagram 4.1: Entity relationship diagram

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4.2 Data Dictionary

Table : users

Attributes	Data Type	Key
user_id	int(11)	Primary Key
user_email	varchar(25)	-
user_pass	varchar(25)	-
user_name	varchar(100)	-
user_type	varchar(10)	-

Table : clubs

Attributes	Data Type	Key
club_id	int(11)	Primary Key
club_name	varchar(20)	-
club_mision	varchar(500)	-
club_vision	varchar(500)	-
club_email	varchar(30)	-
club_phone	varchar(15)	-

Table : user_club

Attributes	Data Type	Key
uc_id	int(11)	Primary Key
user_id	int(11)	Foreign Key
club_id	int(11)	Foreign Key

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Table : category

Attributes	Data Type	Key
cat_id	int(11)	Primary Key
cat_name	varchar(20)	-

Table : announcement

Attributes	Data Type	Key
ann_id	int(11)	Primary Key
ann_content	varchar(100)	-
club_id	int(11)	Foreign Key
ann_title	varchar(100)	-
ann_add_date	varchar(10)	-

Table : events

Attributes	Data Type	Key
event_id	int(11)	Primary Key
event_name	varchar(20)	-
event_desc	varchar(100)	-
club_id	int(11)	Foreign Key
event_date	varchar(10)	-

Table : club_category

Attributes	Data Type	Key
cc_id	int(11)	Primary Key
club_id	int(11)	Foreign Key
cat_id	int(11)	Foreign Key

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Table : applicant

Attributes	Data Type	Key
applicant_id	int(11)	Primary Key
user_id	int(11)	Foreign Key
club_id	int(11)	Foreign Key
app_status	varchar(10)	-

Table : student_details

Attributes	Data Type	Key
sd_id	int(11)	Primary Key
stud_matric	varchar(10)	-
stud_semester	int(11)	-
stud_prog_code	varchar(10)	-
user_id	int(11)	Foreign Key

4.3 Data Flow Diagram

4.3.1 Context Diagram

(See Appendix A).

4.3.2 Diagram o

(See Appendix B).

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5. Conclusion and Recommendation

5.1 Conclusion

The UiTM Raub Club Registration System has successfully undergone all 5 phases of development, which are planning, analysis, design, implementation, and testing. All the analysis and testing during each phase is crucial to determining the aspects that need to be improved. This system is far from perfection, as there are many things that can be improved, but the successful development of this project demonstrates the team's dedication and adaptability in delivering a functional and valuable system to its users.

The system achieved all its goals in creating a platform that helps students explore and join clubs. Students can easily find clubs that align with their interest in the platform. It is also viable for club admin to manage any incoming new club member application and share announcements among club members. Student affairs can also utilize the system to monitor the activities of clubs that exist in UiTM Raub.

5.2 Recommendation

There are several things that can be improved in order to sustain the system's operation in the future.

1. Mobile devices responsiveness

The system needs to support usage from mobile devices to increase the accessibility of the system. It can increase the range of devices that the system can be accessed.

2. Usage of development's library and framework

Web technology nowadays usually uses frameworks and libraries such as React and Django in their architecture. The integration of the UiTM Raub Club Registration System into using framework can improve the system's ability to enhance its scalability. and performance.

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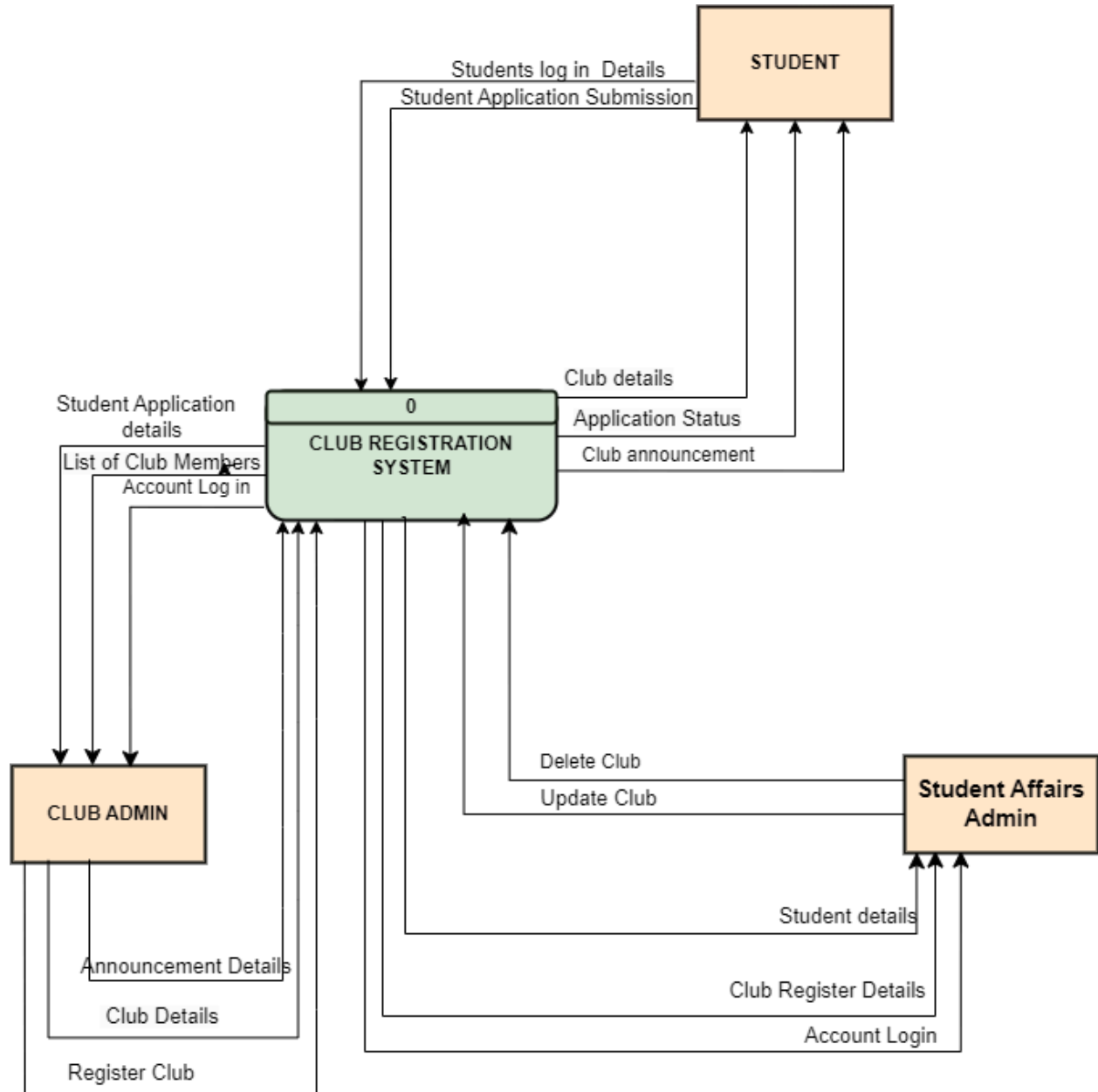
3. Data filtering

Implement filtering functions to facilitate data management and searching, as the continuous increase in data volume can lead to disorganization if there is no capability to filter and search through it.

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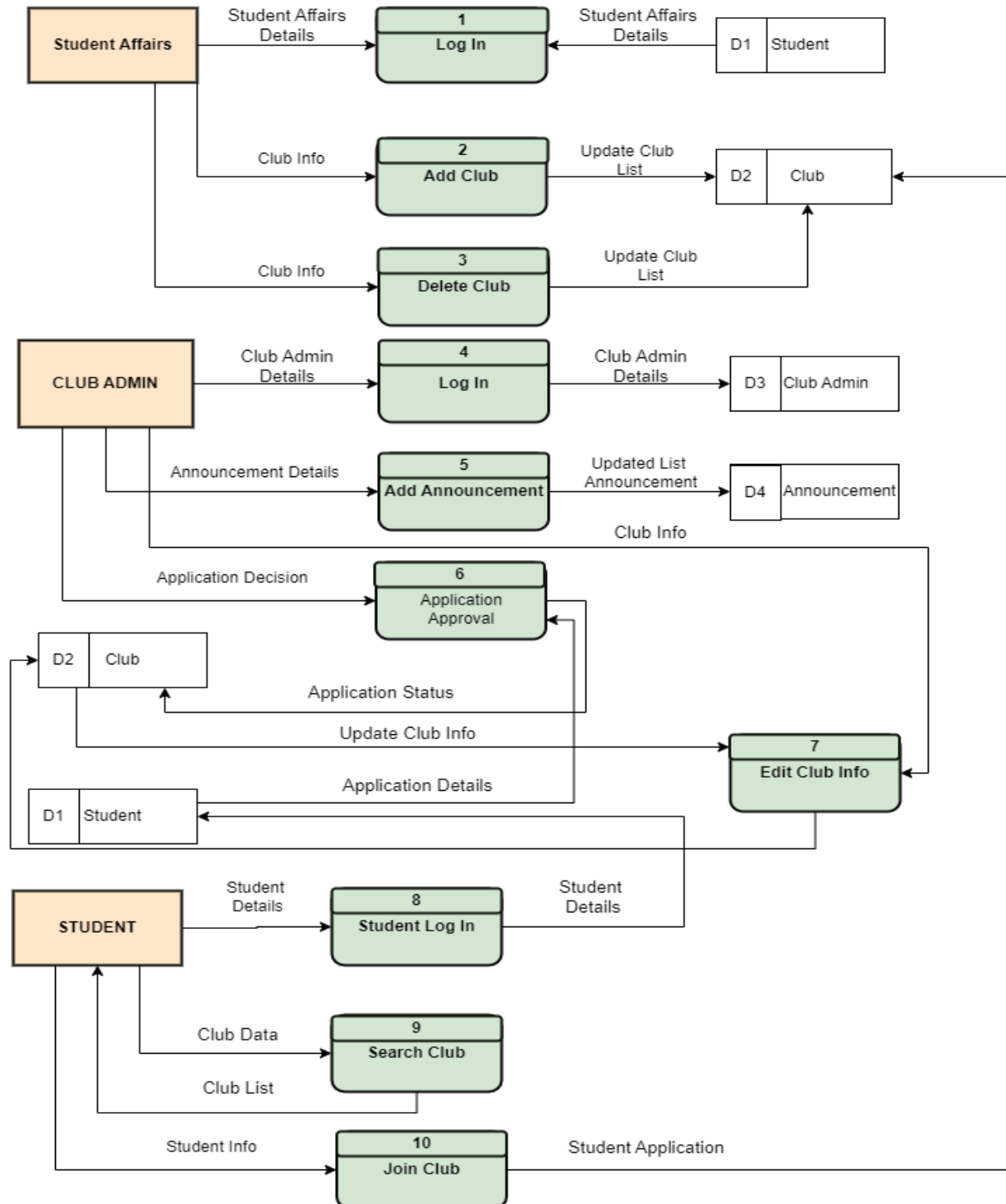
Appendices

Appendix A. Context Diagram



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Appendix C. Gantt Chart

