UiTM Raub Club Registration System Software Design Description (SDD)

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GROUP: CDCS1104E

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UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	

Table of Contents

UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	

Revision History

Name	Date	Reason for changes	Version
Luqman Hanis Daniel bin Khailmi	21/6/2024	Changed the diagram's data and description details in 2.1 and 2.2 to table format.	1.1

UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	

1. Introduction

1.1 Document Purpose

This document describes the design and architecture that will be applied when developing the UiTM Raub Club Registration System. It contains important information such as the system's data flow diagram, database design, and functional requirements that will be used by the developer. This document is also prepared for the project's supervisor to examine and evaluate the proposed design, ensuring it meets the project's objectives and standards. Furthermore, it serves as a reference for stakeholders to understand the system's structure and operational workflow, facilitating effective communication and decision-making throughout the development process.

1.2 Product Scope

The software is developed to be used by three types of user, which is student, club admin and student affair. Each type of user will have their own objectives, functionalities and limitations to help facilitate their usage.
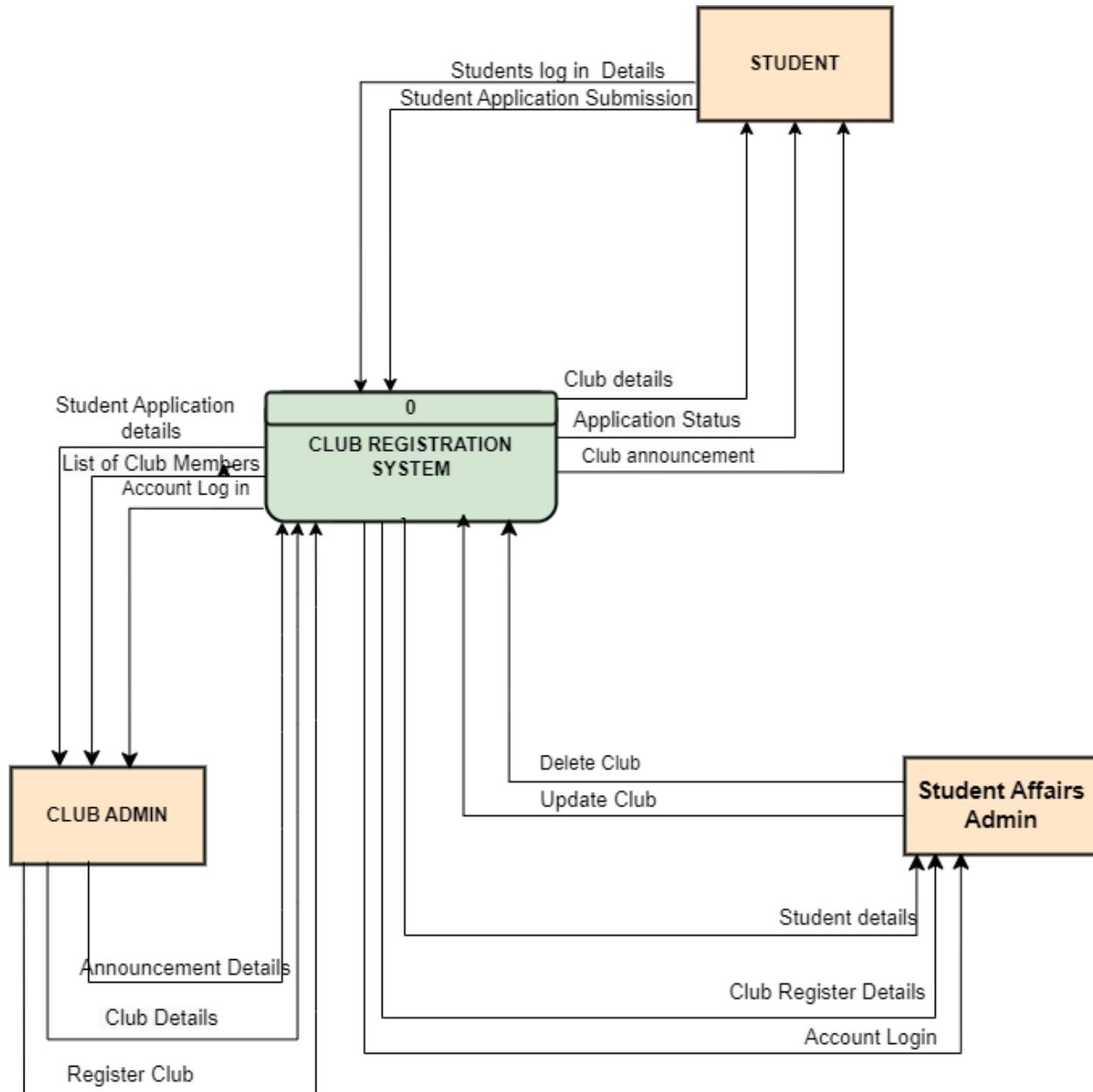
Table 1.2: Objectives of each user type

User Type	Objective
Student	Helping students to discover existing clubs and ease the hustle needed to join a club.
Club Admin	Facilitate the club management such as new member applications and making announcements.
Student Affair	Manage new club registration and monitor all students and clubs activities.

UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	

2. System Overview

2.1 Context Diagram

1. Entity: Student

Table 2.1.1: Data and descriptions for the student's entity

Data	Description
Club Details	Student able to view all the clubs that available in System
Application Submission	Students Fill out and submit the club registration form with personal information, club preferences, and necessary documents.
Club announcement	Allows students to view important information, updates, and events from Club Admin
Log in Details	Student will log in into the system by using username and password they created
Application Status	The students are able to view the application status, whether they got accepted or rejected

Entity: Club Admin

Table 2.1.2: Data and descriptions for the club admin's entity

Data	Description
Announcement Details	Allows admin clubs to share important information, updates, and events with members .
Register Club	Club admin will able to register their club into the system by provide details into the application form

| Club Details	The club admin will be able to input club details such as achievements,club vision, and objectives to attract students to join their club.
Account log in	Admin will log in into the system by using the username and password they created.
List of Club Member	Club admin will be able to view their club members.
Student Application details	Club admin will be able to see student submission details.
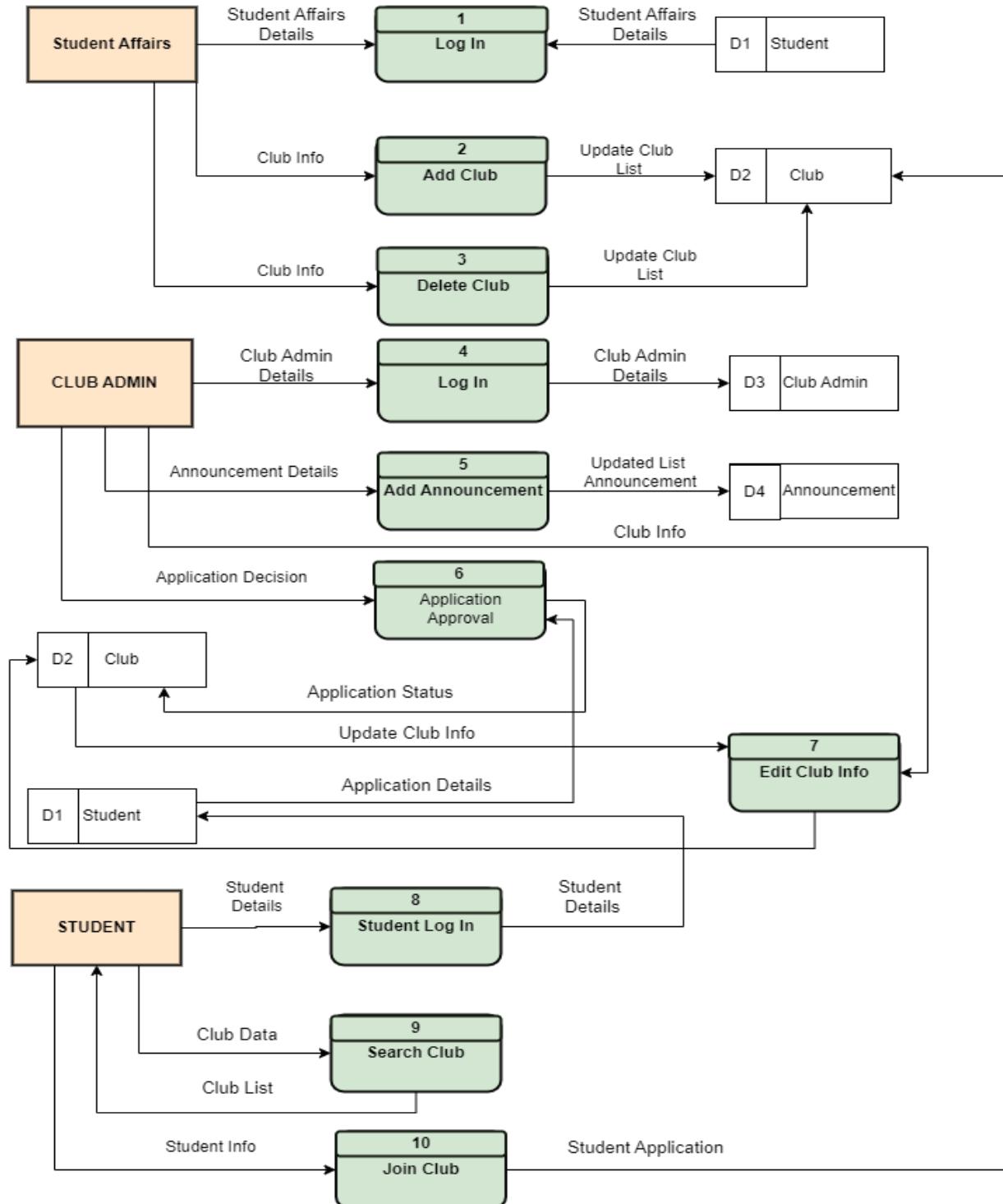
Entity: Student Affairs Admin

Table 2.1.3: Data and descriptions for the student affair admin's entity

Data	Description
Account Log In	Student Affairs Admin will log in into the system by using username and password they created
Club details	Student Affairs Admin will able to see club details including their list of members
Students details	Student Affairs Admin will able to see student profile information
Delete Club	Student Affairs Admin will able to delete club that had been register to the system
Update Club	Student Affairs Admin will be able to update list club and info everytime a new club registers to the system.

UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	

2.2 Diagram 0

UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	

Entity: Student

Table 2.2.1: Data, processes, and descriptions for the student's entity

Data	Process	Description
Club Details	System generates list of club that have been register in the system	Student able to view all the clubs that available in System
Application Submission	Generate registration form	Students Fill out and submit the club registration form with personal information, club preferences, and necessary documents.
Club announcement	System sends a notification to all club members informing them of the new announcement.	Allows students to view important information, updates, and events from Club Admin
Log in	Log In	Student will log in into the system by using username and password they created
Application Status	System displays the status of the student's club applications (accepted or rejected).	The students are able to view the application status, whether they got accepted or rejected

UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	

Entity: Club Admin

Table 2.2.2: Data, processes, and descriptions for the club admin's entity

Data	Process	Description
Announcement Details	Generate notification to all club members informing them of the new announcement.	Allows admin clubs to share important information, updates, and events with members .
Register Club	Register Club	Club admin will able to register their club into the system by provide details into the application form
Club Details	Input Club Details	The club admin will be able to input club details such as achievements,club vision, and objectives to attract students to join their club
Account log in	Log In	Admin will log in into the system by using username and password they created
List of Club Member	View Club Members	Club admin will able to view their club members
Student Application details	View Students Application	Club admin will be able to see student submission details .

| UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	
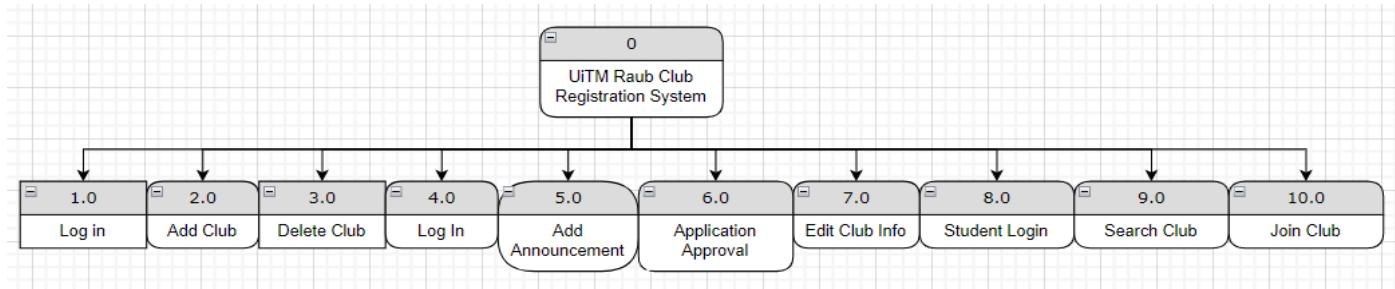
Entity: Student Affairs Admin

Table 2.2.3: Data, processes, and descriptions for the student affair admin's entity

Data	Process	Description
Account Log In	Log in	Student Affairs Admin will log in into the system by using username and password they created
Club details	View Club Details	Student Affairs Admin will able to see club details including their list of members
Students details	View students details	Student Affairs Admin will able to see student profile information
Delete Club	Delete Club	Student Affairs Admin will able to delete club that had been register to the system
Update Club	Update Club details	Student Affairs Admin will able to update list club and info everytime a new club register to the system.

UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	
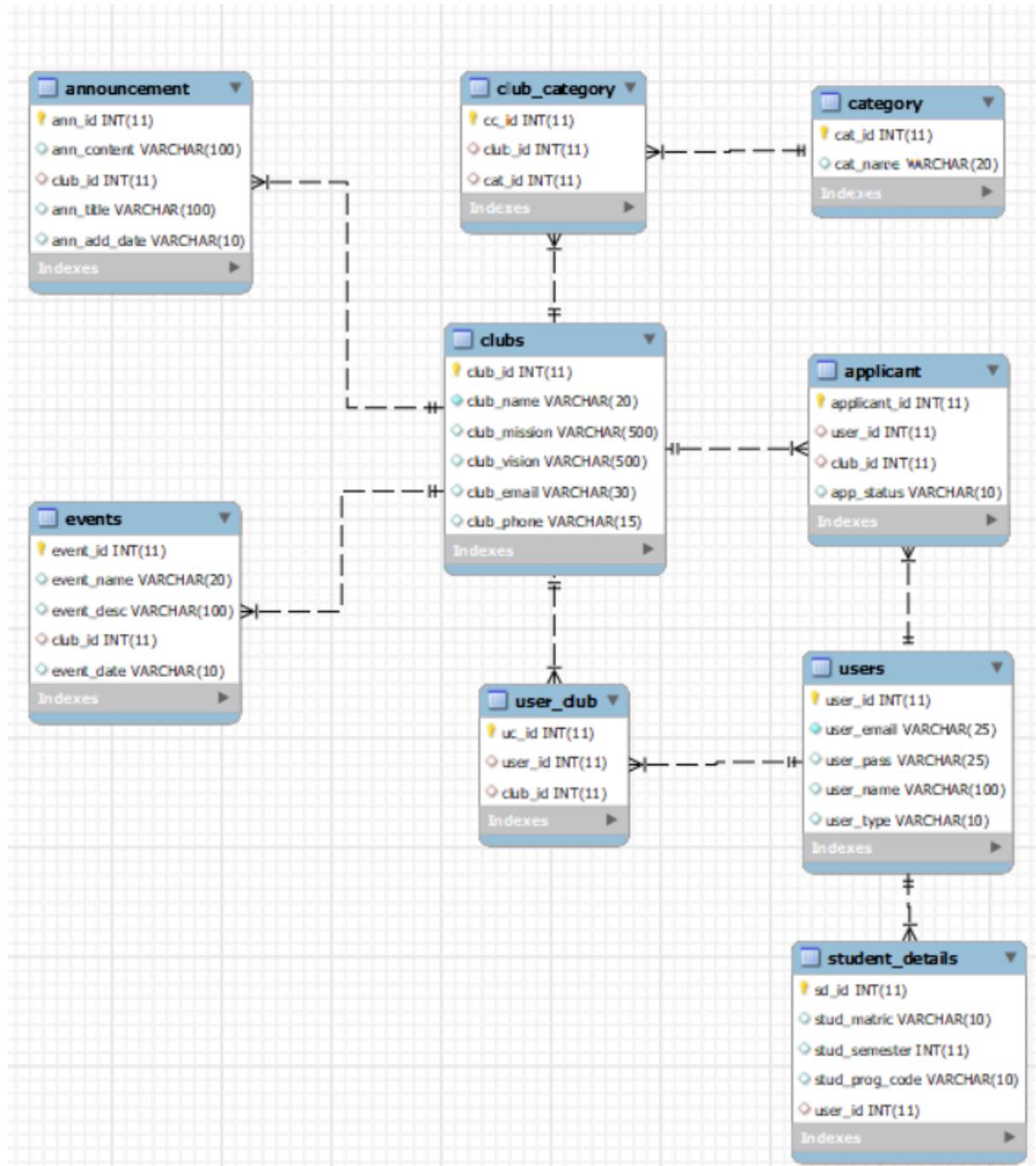
2.3 Functional Decomposition Diagram

3. Database Design

3.1 Entity Relationship Diagram

UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	

3.2 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

UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	

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

UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	

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. Functional Requirements

User	Function
Club Admin	-Can update announcement
	-Can edit club info
	-View list of student application
	-Can Login To the Admin Panel
	-Can approve member application
	-Can decline member application
Student	-Log in/Register to system
	-User can search for a club
	-User can request to join a club
	-User can view club based on category
	-User can update user information
Student Affairs Admin	-Can view existing club
	-Can view student that exist in system
	-Can add new club
	-Delete existing Club

UiTM Raub Club Registration System	Version: 1.1
Software Design Description (SDD)	Date: 21/6/2024
Luqman Hanis Daniel bin Khailmi	

Appendix