



COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

CSC264 : INTRODUCTION TO WEB AND MOBILE APPLICATION

FINAL REPORT : UiTM RAUB CLUB REGISTRATION SYSTEM

CLASS : CDCS1104E

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1. Organizational Chart



2. Project Description and Purpose

2.1 Introduction to the Project

University students usually seek to join clubs and communities to enhance their social skills and make new friends. There are many clubs and organizations that can be found within the UiTM Raubs student community. Engaging in club activities is a good way to fill university life. Although the community is strongly established, there is no platform for students to find and discover clubs that exist at their university, especially those that are available on campus.

Hence, the main objective of the UiTM Raub Club Registration System is to solve this problem, which helps students discover, join, and engage with clubs across UiTM Raub on a centralized platform. Students can find and join clubs and organizations of a variety of types and specialties that align with their interests and goals. A centralized platform helps users keep up to date with announcements and upcoming events that were organized by their club.

This project also aligns with Universiti Teknologi MARA's mission to produce ethical, competent, and globally competitive graduates. By participating in club activities, students can gain valuable experience in project management, leadership, and high-level decision-making. It really provides UiTM Raub students with a platform that helps them enhance their potential and opens up more opportunities for them.

2.2 Problem Statement

I. Information Fragmentation

Students find it difficult to access up-to-date and comprehensive information about the various clubs and organizations available at UiTM.

II. Inefficient Coordination

The absence of a centralized system leads to challenges in scheduling and coordinating events and activities, resulting in potential conflicts and missed opportunities.

III. Limited Channels

There is no unified platform for students to gain information about clubs, or express interest in joining clubs.

IV. Poor Engagement and Participation

The absence of a central hub for clubs can hinder student engagement and participation in extracurricular activities.

V. Lack of Feedback Mechanisms

There is no systematic way for students to provide feedback and reviews on clubs and events, hindering the continuous improvement of club activities.

2.2 Objectives

- Help students discover clubs that exist on their campus.
- Provide a centralized platform for club activities and management.
- Increase student engagement with the community.

2.3 Scope of the Project

I. User Authentication

Login and Register functionalities to improve data security.

II. Club Database

Collection of clubs and organizations that can be found in UiTM.

III. Dashboard

Allows users to edit their information in their profile page.

IV. Club Management

Manage club activities and events within the platform.

2.4 The Impact of the Web Application to the Targeted Audience

I. Improved Access to Information

Students can easily discover and access information about clubs and events across the university.

II. Enhanced Engagement

The platform provides students with easy access to a variety of extracurricular activities, encouraging higher participation and engagement.

III. Increased Visibility

The platform can boost the visibility of clubs and their events.

IV. Strengthened Community

A centralized platform fosters a stronger sense of community among students and clubs across all campuses.

V. Data-Driven Insights

The application can provide valuable data and insights into student engagement and preferences, informing future university initiatives.

3. System Analysis and Design

3.1 Data Flow Diagram - Context Diagram

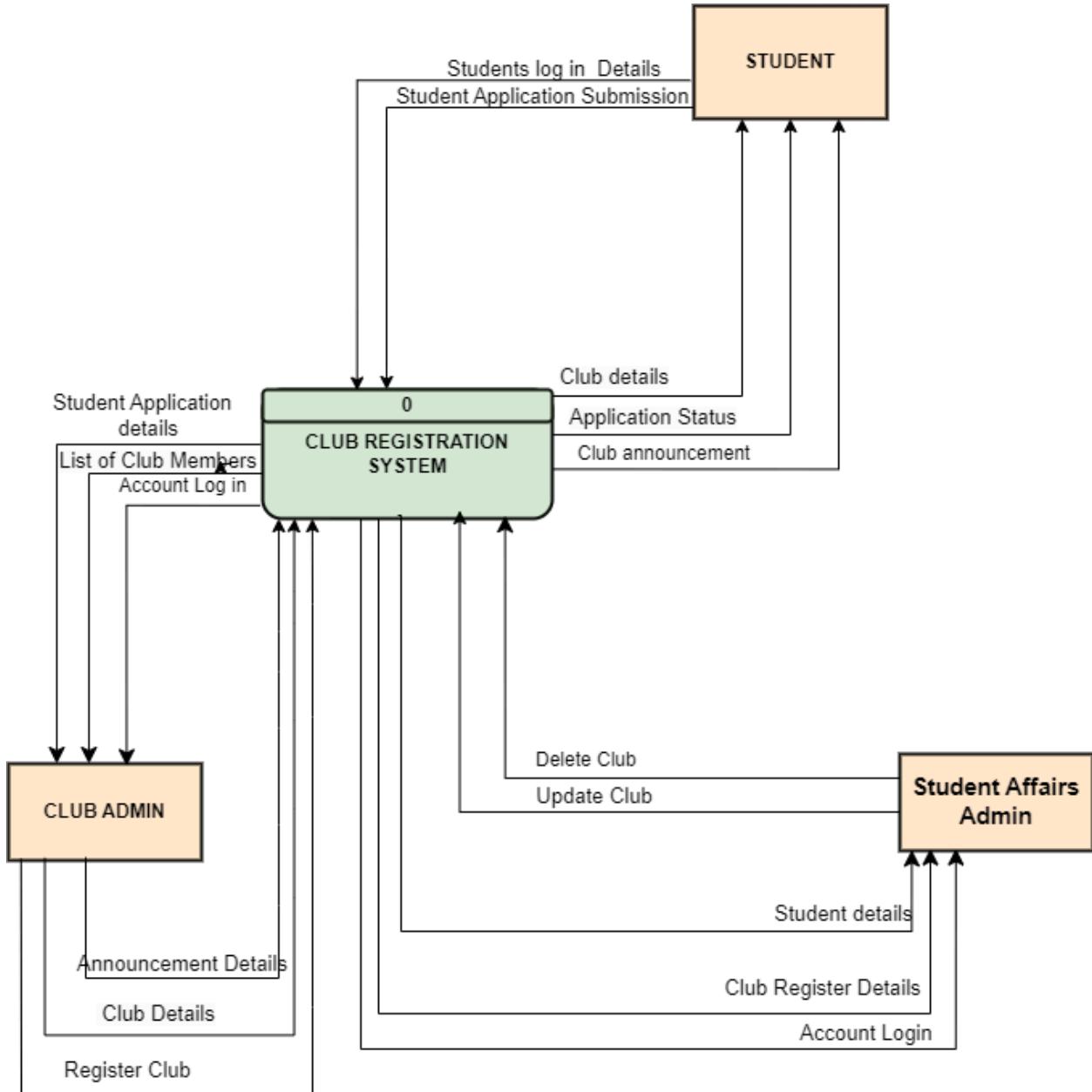


Diagram 3.1. Context Diagram of the web application

3.2 Data Flow Diagram - Diagram 0

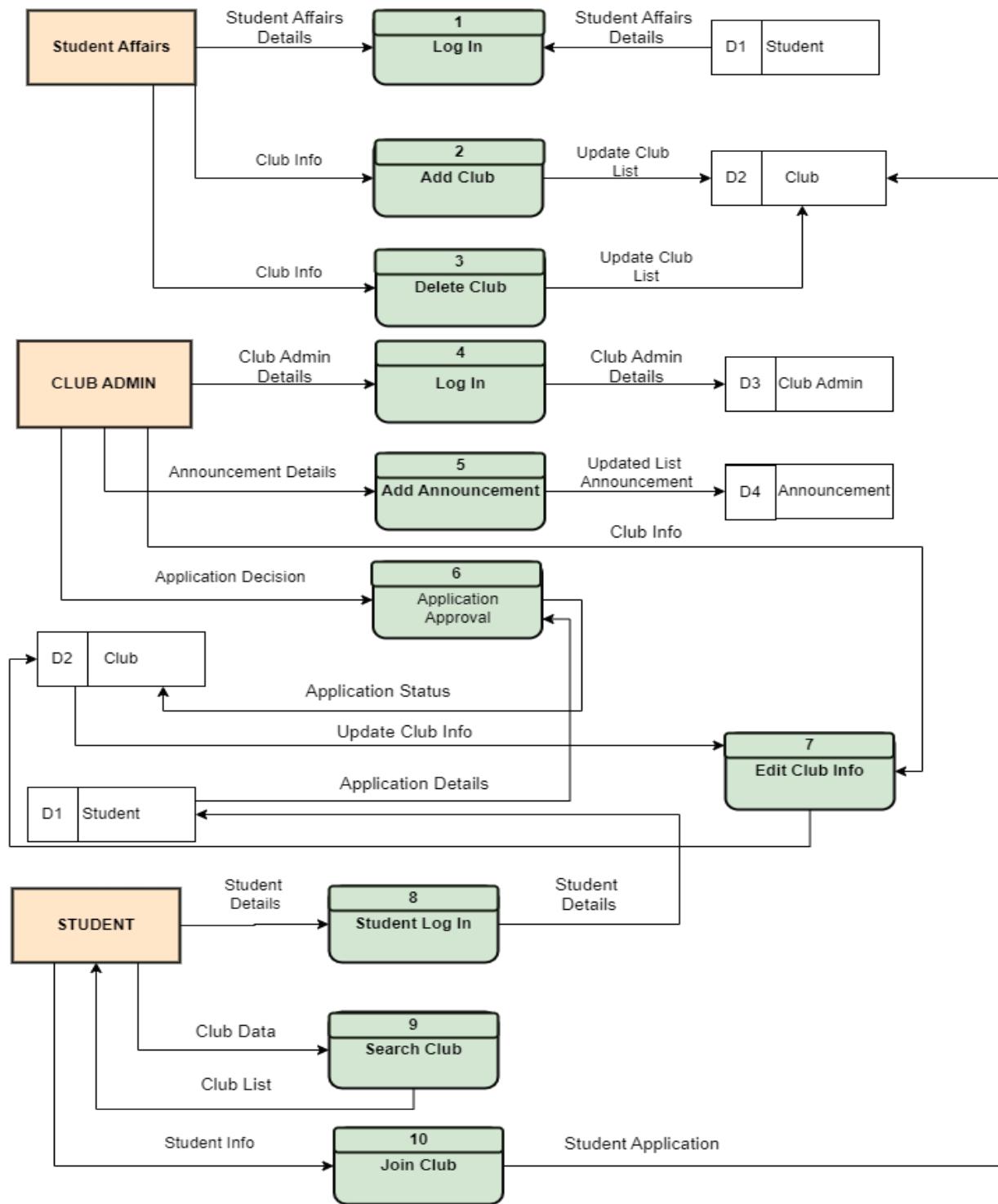


Diagram 3.2. Diagram 0 of the web application

4. Database Design

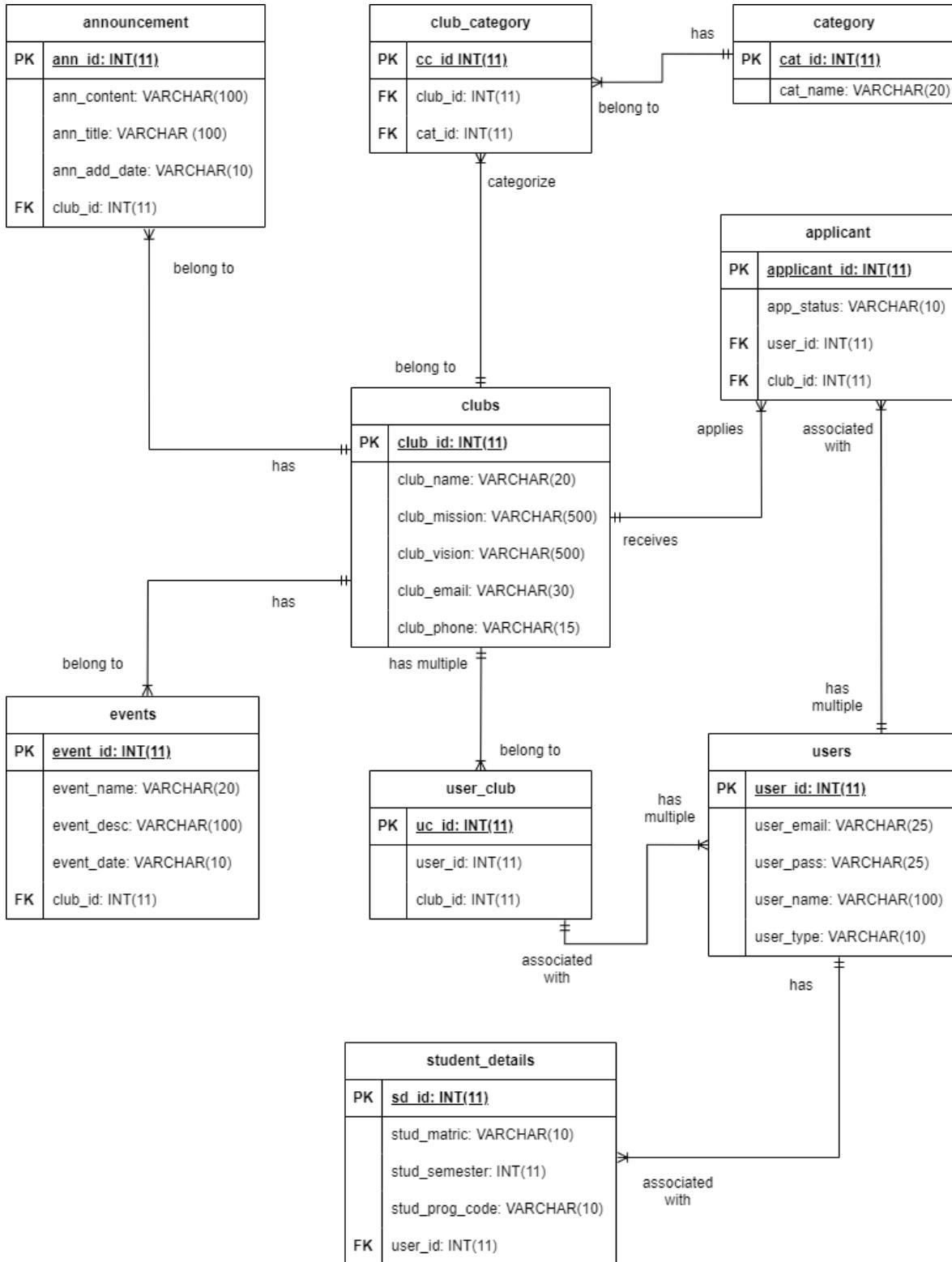


Diagram 4. Entity Relationship Diagram of the system's database

5. Sample Interface and Output

5.1 Student Interface

The screenshot shows the login interface for the 'UiTM Raub Club Registration System'. The title bar is purple with white text. Below it, a large white box contains the heading 'Hello, Welcome!' in bold black font. It includes fields for 'Email address' (containing 'luqman@gmail.com') and 'Password' (containing '*****'). A 'Log In' button is at the bottom left, followed by the word 'Or' and a 'Register' button.

Diagram 5.1.1. Login interface

The screenshot shows the 'Register' interface. The title bar is white with black text. Below it, a large white box contains fields for 'Full Name' (containing 'Luqman Hanis Daniel bin Khalimi'), 'Email address' (containing 'luqman@gmail.com'), 'Password' (containing '*****'), 'Confirm password' (containing '*****'), 'Matric number' (containing '2022825526'), 'Current semester' (containing '4'), and 'Programme code' (containing 'CDCS110').

Diagram 5.1.2. Student Register interface

Log in / Register

Email address :

Password :

Confirm password :

Matric number :

Current semester :

Programme code :

Register Now

Or

[Back to login](#)

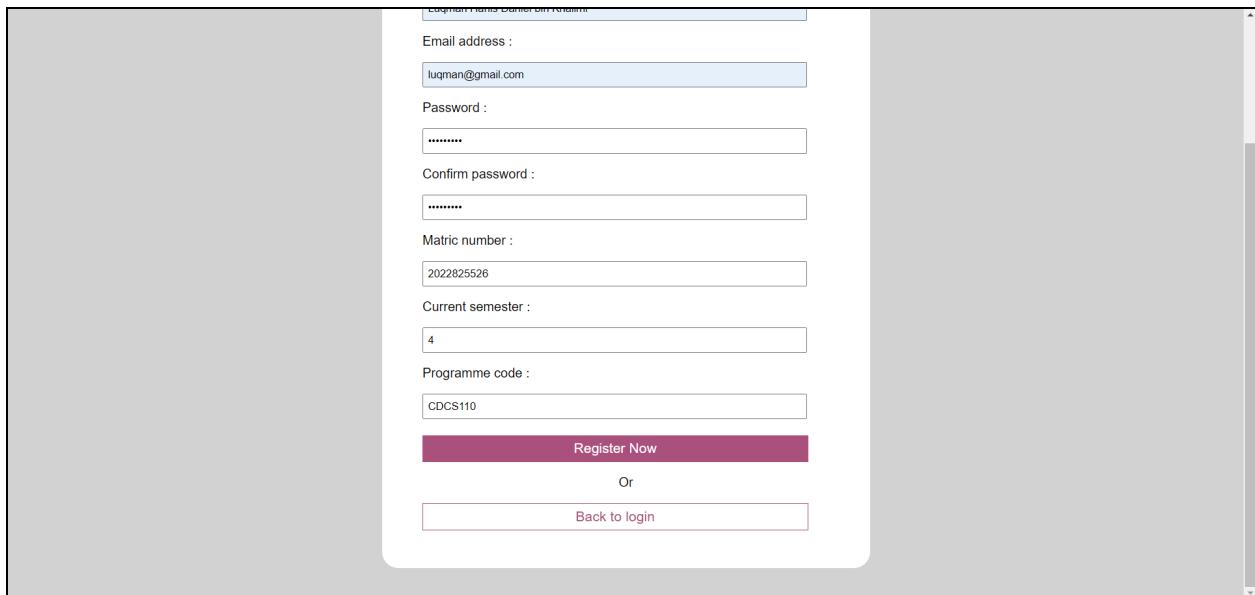


Diagram 5.1.3. Input data in register page

URCRS

Dashboard Explore My Profile

My Club

Announcement

Event

My Application

Log Out

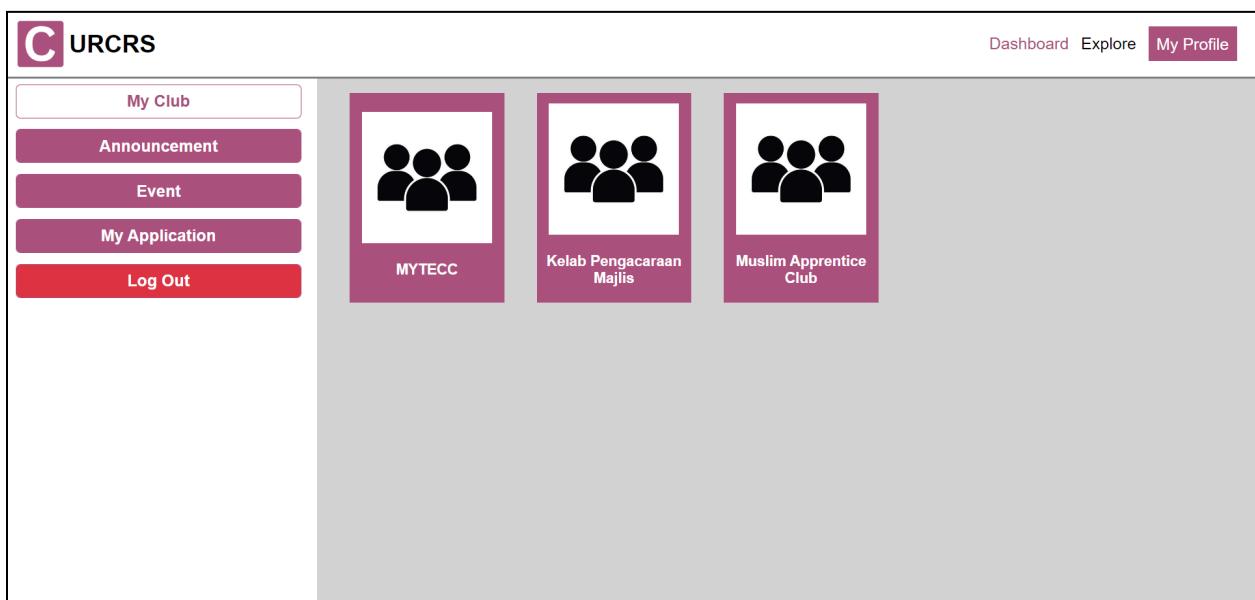


Diagram 5.1.4. Student dashboard interface

The screenshot shows the URCRS application interface. On the left, there is a sidebar with a navigation menu containing "My Club", "Announcement", "Event", "My Application", and "Log Out". The main content area displays two announcements from the "Muslim Apprentice Club".

Announcement 1: Muslim Apprentice Club, 25-06-2024
Iftar Gathering!
As part of our commitment to fostering community and spiritual growth, the Muslim Apprentice Club is delighted to invite you to our Ramadan Iftar Gathering! Join us for a memorable evening of breaking fast together in the spirit of unity and reflection. Experience the joy of Ramadan with fellow students as we share delicious food and meaningful conversations.

Announcement 2: Muslim Apprentice Club, 25-06-2024
Special Event: Islamic Arts and Culture Exhibition!
We are thrilled to announce a special event hosted by the Muslim Apprentice Club: the Islamic Arts and Culture Exhibition! Join us for an enriching showcase of Islamic art, calligraphy, and cultural displays. Explore the beauty and diversity of Islamic artistry through various exhibits featuring traditional and contemporary artworks. Learn about the rich cultural heritage and artistic traditions that span centuries.

Diagram 5.1.5. Joined clubs announcements

The screenshot shows the URCRS application interface. On the left, there is a sidebar with a navigation menu containing "My Club", "Announcement", "Event", "My Application", and "Log Out". The main content area displays one event from the "Muslim Apprentice Club".

Event: Muslim Apprentice Club, 29-06-2024
Islamic Heritage Day
Join us for a day of celebration and exploration of Islamic heritage!

Diagram 5.1.6. Joined clubs events

The screenshot shows the URCRS application interface. On the left, there is a sidebar with the following menu items:

- My Club
- Announcement
- Event
- My Application
- Log Out

The main content area displays three approved applications:

- Muslim Apprentice Club
Status: Approved
- Kelab Pengacaraan Majlis
Status: Approved
- MYTECC
Status: Approved

Diagram 5.1.7. List of students application

The screenshot shows the Explore page of the URCRS application. At the top, there is a search bar with the placeholder text "gerakan sukarelawan mahasiswa" and a "Search" button. Below the search bar, a message reads: "Browse from a total of 10+ clubs and organizations across UiTM Raub." A large, bold "Explore" heading is centered on the page. At the bottom, a maroon banner contains the text "Or explore from various club types...".

Diagram 5.1.8. Explore page interface

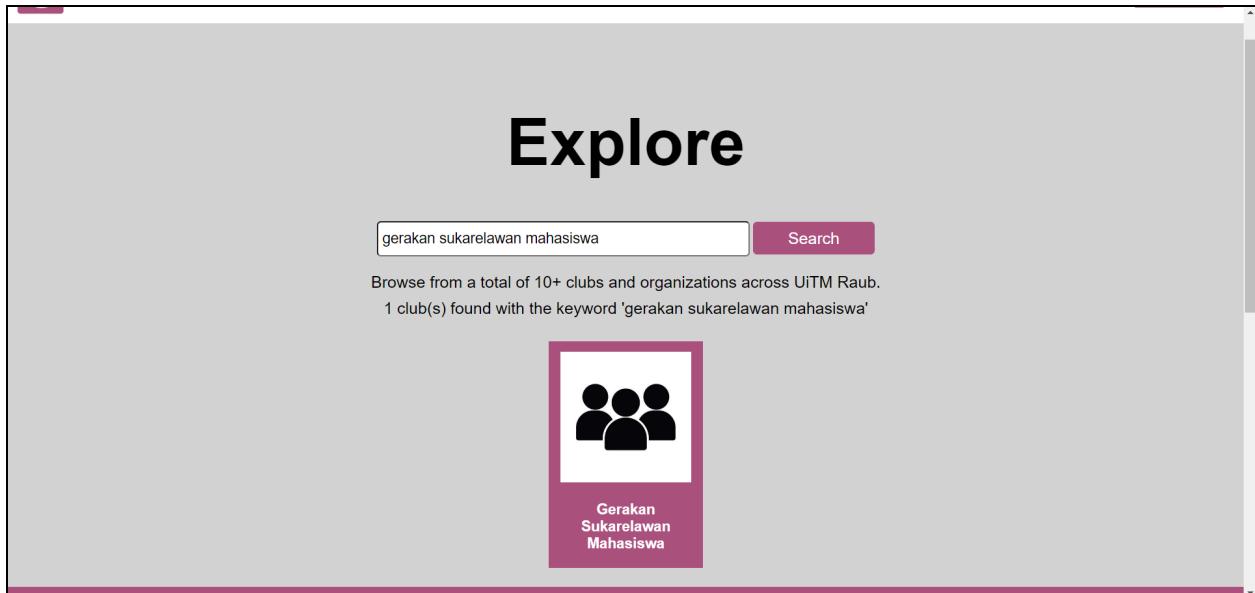


Diagram 5.1.9. Result of club search

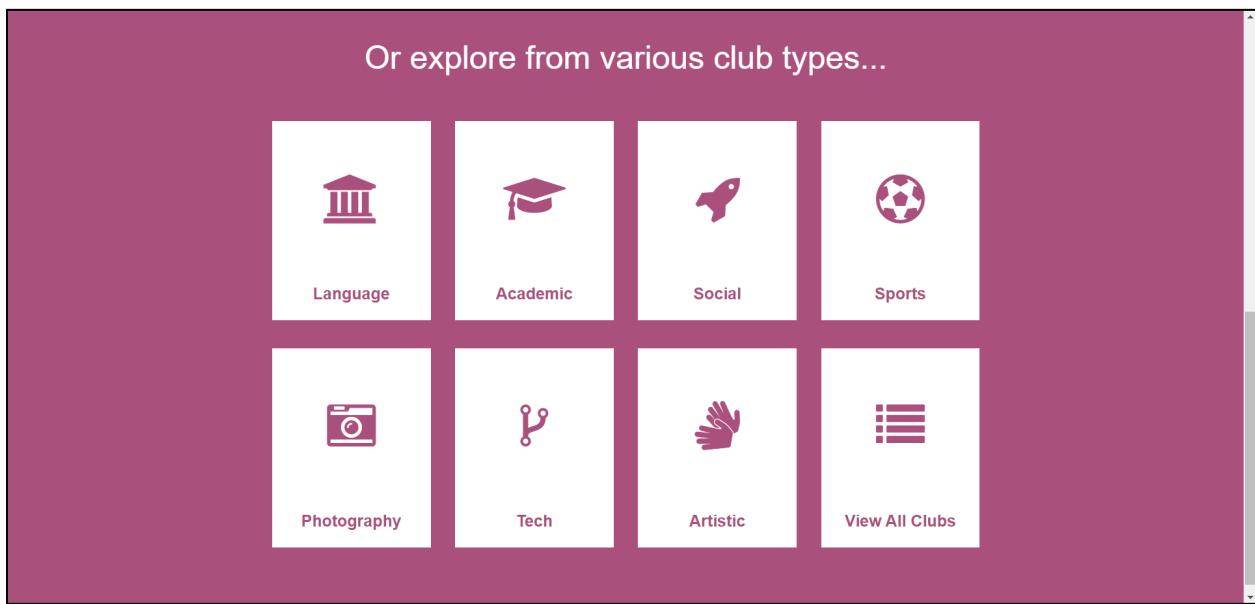


Diagram 5.1.10. Category of existing clubs

C URCRS

Dashboard Explore **My Profile**

Language Club

[Back to Explore](#)

1 club(s) found with the tag 'Language'



English Club

Diagram 5.1.11. List of clubs based on category

C URCRS

Dashboard Explore **My Profile**



English Club

[Join club](#) [Contact](#)

MISSION

To cultivate a passion for the English language and literature among students, fostering communication skills, critical thinking, and cultural awareness through engaging activities

Diagram 5.1.12.Club profile interface

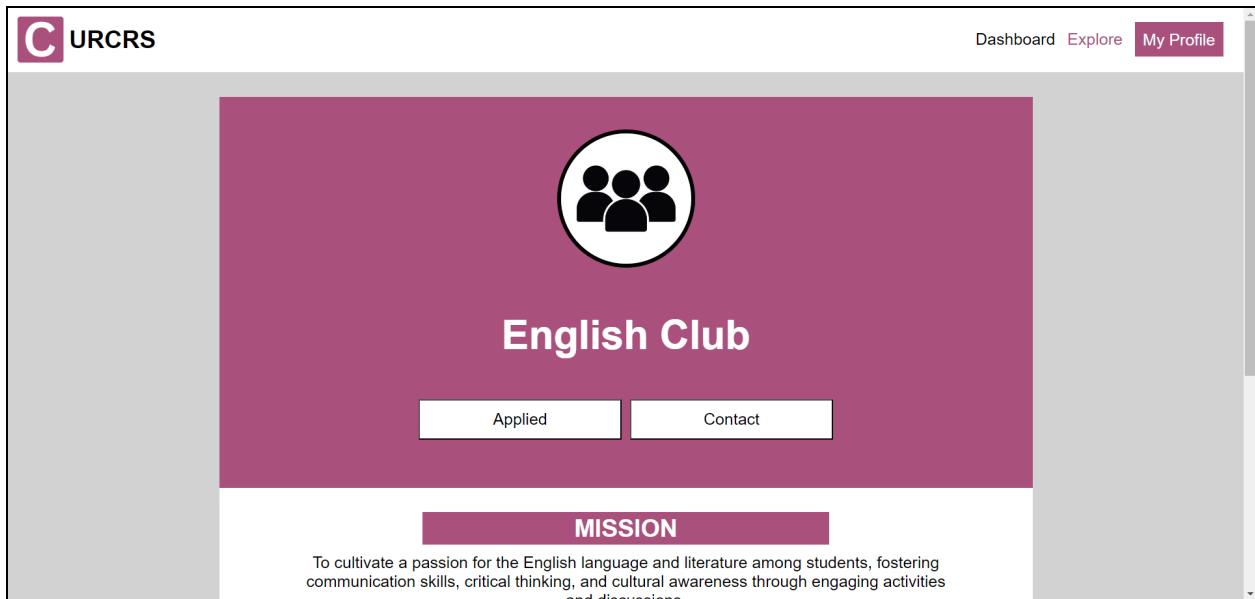


Diagram 5.1.13. Club profile interface after applying

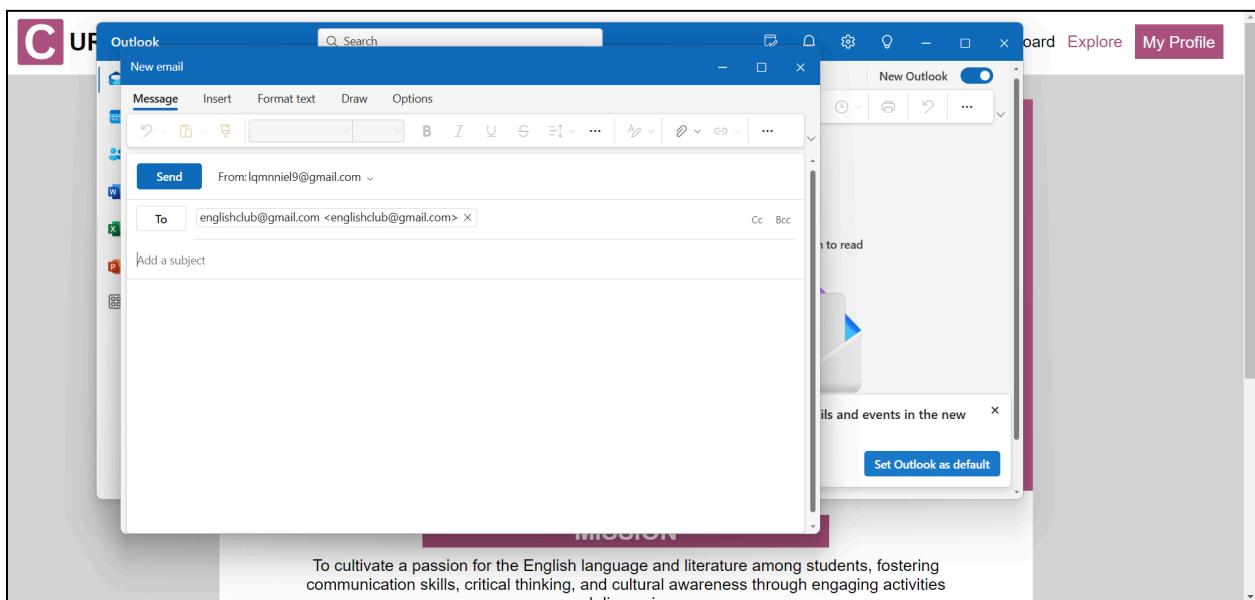


Diagram 5.1.14. Output after clicking 'contact'

The screenshot shows a user interface for managing student applications. On the left, there is a sidebar with buttons for 'My Club', 'Announcement', 'Event', 'My Application' (which is highlighted in white), and 'Log Out'. The main area displays four application entries:

- English Club**: Status: Pending
- Muslim Apprentice Club**: Status: Approved
- Kelab Pengacaraan Majlis**: Status: Approved
- MYTECC**: Status: Approved

Diagram 5.1.15. Updated student's application list

The screenshot shows a student profile interface. On the left, there is a sidebar with buttons for 'Edit Informations' and 'Log Out'. The main area displays personal information and club affiliations:

My Profile

Luqman Hanis Daniel bin Khailemi
luqman@gmail.com

Matric number:
2022825526

Current semester:
5

Programme code:
CDCS110

Club:

- MYTECC
- Kelab Pengacaraan Majlis
- Muslim Apprentice Club

Diagram 5.1.16. Student profile interface

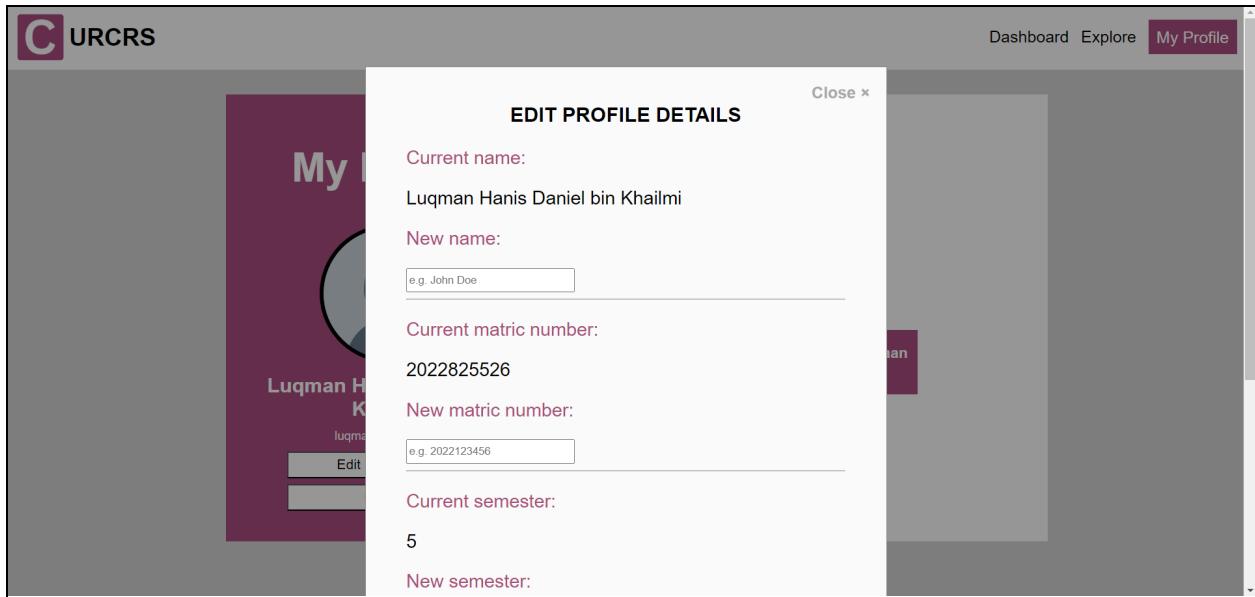


Diagram 5.1.17. Edit profile

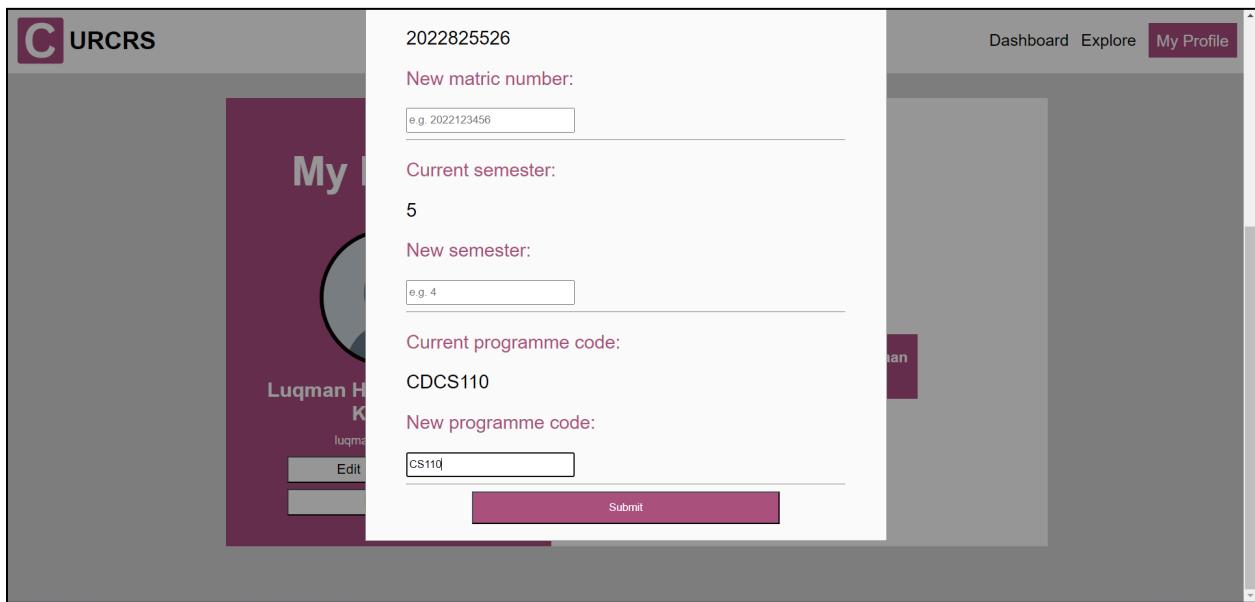


Diagram 5.1.18. Filling info in edit interface

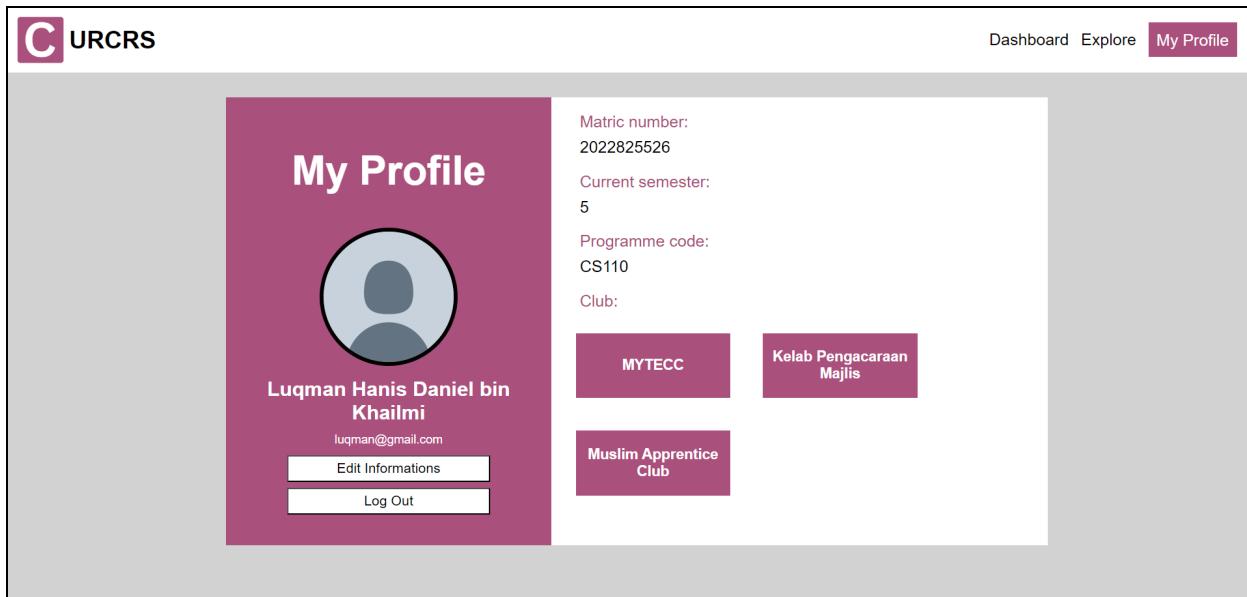


Diagram 5.1.19. Updated student's profile

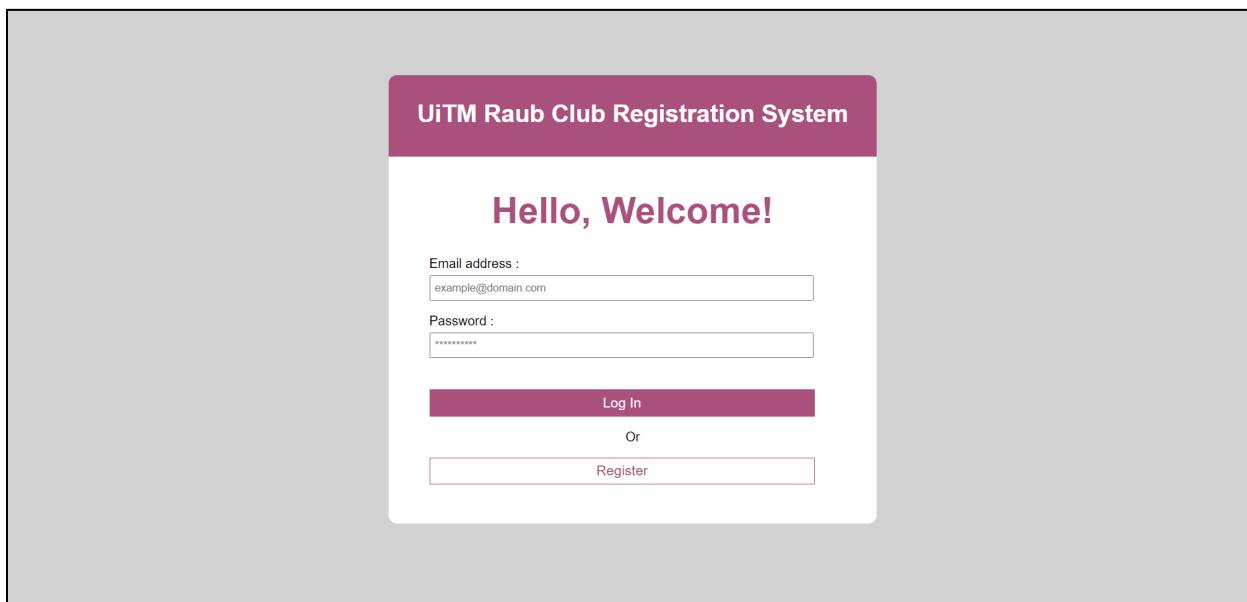


Diagram 5.1.20. Logout output

5.2 Club Admin Interface

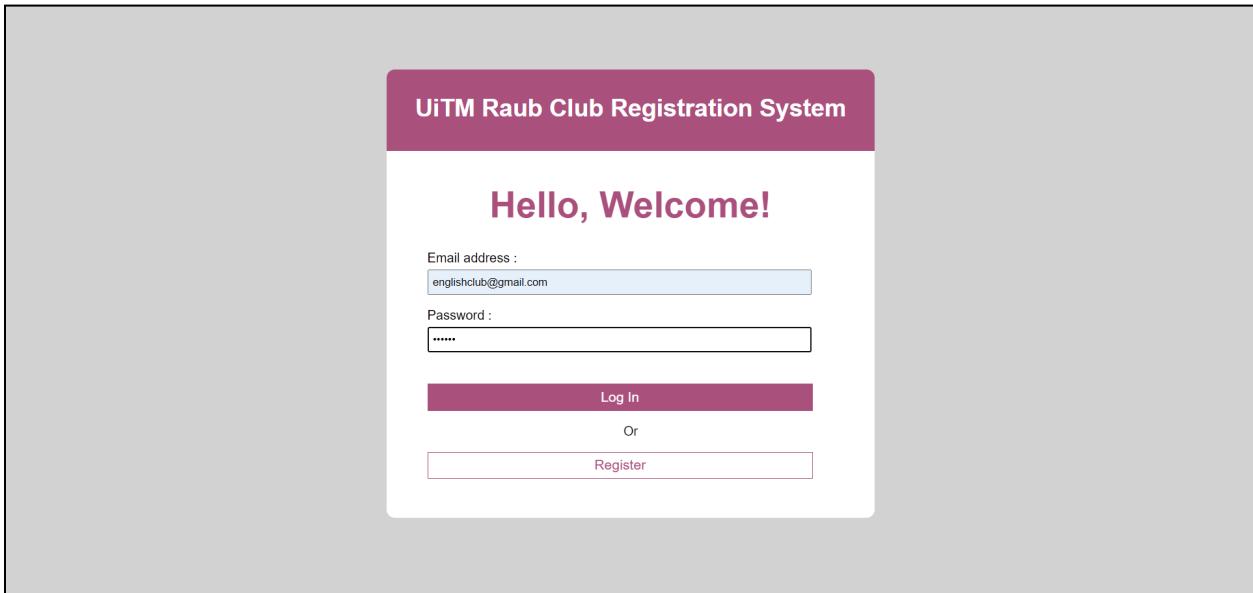


Diagram 5.2.1. Login interface

The image shows the club admin interface for the English Club. The top navigation bar includes a logo (a purple square with a white 'C'), the text "URCRS", and links for "Dashboard", "Explore", and "Log Out". On the left, a sidebar menu lists "Club Profile", "Announcement", "Event", "Member List", "Applicant List", a blue "+ Add" button, and a blue "Edit Profile" button. The main content area features a circular icon with three stylized human figures. The text "English Club" is displayed prominently. Below it is a "Contact" button. At the bottom, the word "Mission" is followed by a box containing the text: "To cultivate a passion for the English language and literature among students, fostering communication skills, critical thinking, and cultural awareness through engaging activities and discussions."

Diagram 5.2.2. Club admin interface

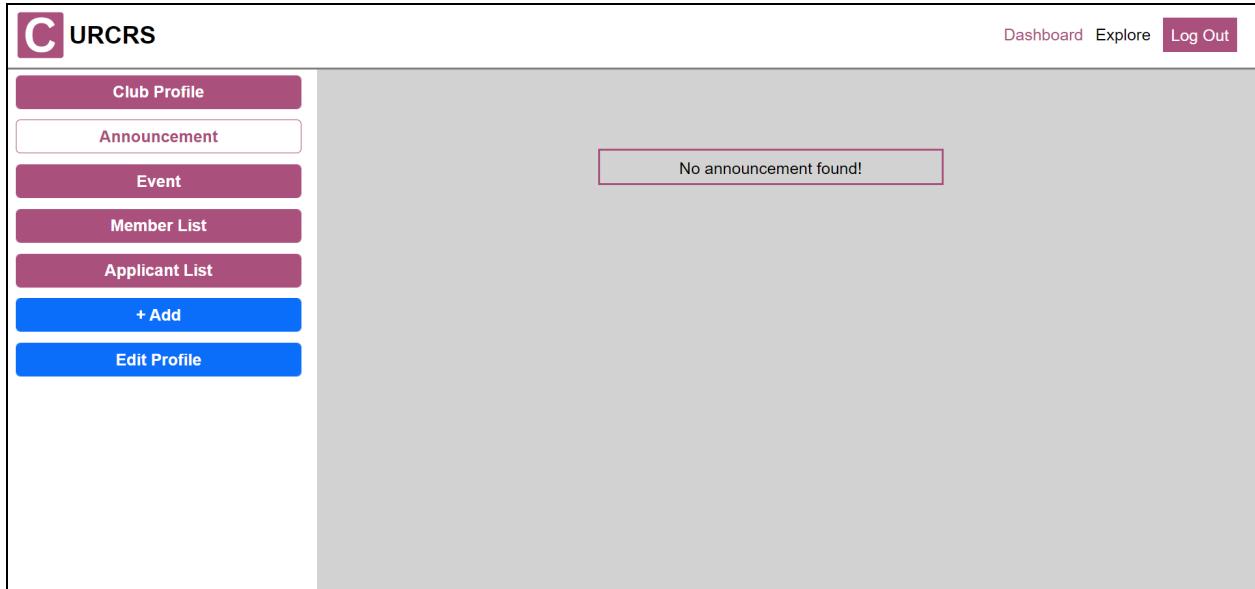


Diagram 5.2.3. List of announcements



Diagram 5.2.4. List of events

The screenshot shows a user interface for managing club members. On the left, there is a vertical sidebar with the following menu items:

- Club Profile
- Announcement
- Event
- Member List
- Applicant List
- + Add
- Edit Profile

The main content area displays a message: "No members found for this club." The top right corner features navigation links: Dashboard, Explore, and Log Out.

Diagram 5.2.5. List of club members

The screenshot shows a user interface for managing applicants. On the left, there is a vertical sidebar with the following menu items:

- Club Profile
- Announcement
- Event
- Member List
- Applicant List
- + Add
- Edit Profile

The main content area displays two applicant profiles in separate boxes:

Name: Luqman Hanis Daniel bin Khalimi
Email: luqman@gmail.com
Status: Pending

Buttons: Approve (green), Reject (red), View Profile (grey)

Name: Adib Solehin bin Nazri
Email: adibun@gmail.com
Status: Pending

Buttons: Approve (green), Reject (red), View Profile (grey)

The top right corner features navigation links: Dashboard, Explore, and Log Out.

Diagram 5.2.6. List of applicants

The screenshot shows the URCRS application interface. On the left, there is a sidebar with the following menu items: Club Profile, Announcement, Event, Member List, Applicant List (highlighted with a red border), + Add, and Edit Profile. The main content area displays two profiles. The first profile is for Lugman Hanis Daniel bin Khalimi, with the following details: Name: Lugman Hanis Daniel bin Khalimi, Email: luqman@gmail.com, Status: Rejected. A "View Profile" button is present. The second profile is for Adib Solehin bin Nazri, with the following details: Name: Adib Solehin bin Nazri, Email: adibun@gmail.com, Status: Approved. A "View Profile" button is also present.

Diagram 5.2.7. Updated applicant list

The screenshot shows the URCRS application interface. The sidebar is identical to Diagram 5.2.7, with the Applicant List item highlighted. The main content area displays a single profile for Adib Solehin bin Nazri, with the following details: Name: Adib Solehin bin Nazri, Email: adibun@gmail.com. There are three buttons below the details: Contact (blue), View Profile (grey), and Remove (red).

Diagram 5.2.8. Updated club member list

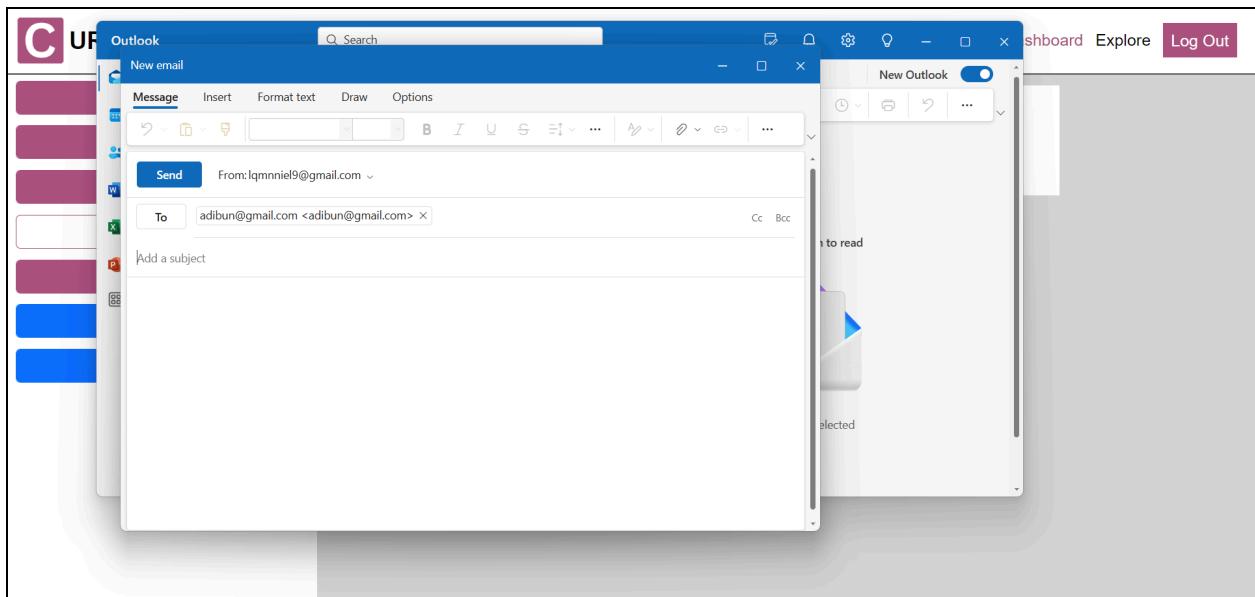


Diagram 5.2.9. Output after clicking 'contact'

A screenshot of the URCRS student profile page. The profile card for 'Adib Solehin bin Nazri' (adibung@gmail.com) displays the following information: Matric number: 2022943756, Current semester: 2, Programme code: BA111, and Club: English Club. A 'Contact' button is located at the bottom of the profile card.

Diagram 5.2.10. View student information

The screenshot shows the URCRS application interface. On the left, there is a sidebar with the following menu items: Club Profile, Announcement (highlighted in white), Event, Member List, Applicant List, + Add, and Edit Profile. The main content area has a modal dialog titled '+ ADD'. Inside the dialog, there is a 'Choose Type:' section with two radio buttons: 'Announcement' (selected) and 'Event'. Below that is an 'Announcement Title:' input field containing 'New announcement!' and a 'Description:' input field containing 'This is an example.'. At the bottom of the dialog is a 'Submit' button.

Diagram 5.2.11. Add new announcement

The screenshot shows the URCRS application interface after an announcement has been added. The sidebar remains the same as in Diagram 5.2.11. The main content area now displays a message 'New announcement!' in a maroon header bar. Below it, the text 'This is an example.' is shown, followed by the date '03-07-2024'.

Diagram 5.2.12. Updated announcement list

The screenshot shows the URCRS application's interface. On the left, there is a vertical sidebar with the following menu items: Club Profile, Announcement, Event (which is highlighted in white), Member List, Applicant List, + Add, and Edit Profile. The main content area has a title '+ ADD' at the top right. It includes fields for 'Choose Type:' (with 'Event' selected), 'Event Title:' (Meeting), 'Description:' (Weekly meeting), and 'Date:' (05/07/2024). A 'Submit' button is located at the bottom of the form. In the top right corner of the main window, there are links for Dashboard, Explore, and Log Out.

Diagram 5.2.13. Add new event

The screenshot shows the URCRS application's interface after an event has been added. The sidebar remains the same as in Diagram 5.2.13. In the main content area, a message box displays the details of the newly added event: 'Meeting', 'Weekly meeting', and 'Event Date: 05-07-2024'. The rest of the interface is mostly empty.

Diagram 5.2.14. Updated event list

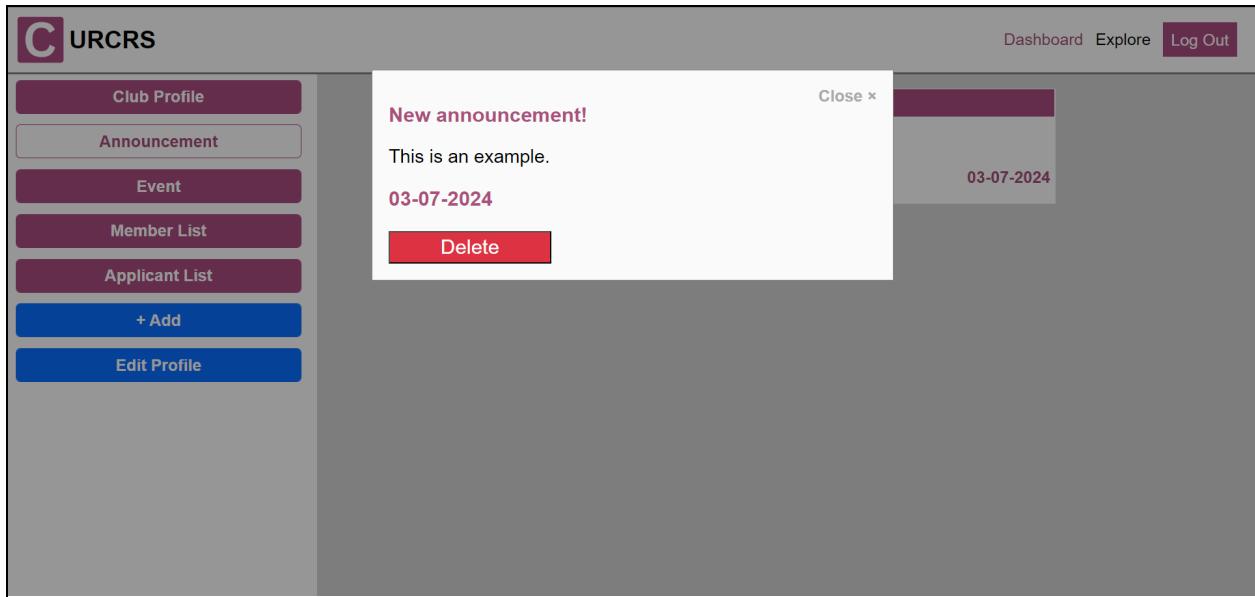


Diagram 5.2.15. Delete announcement

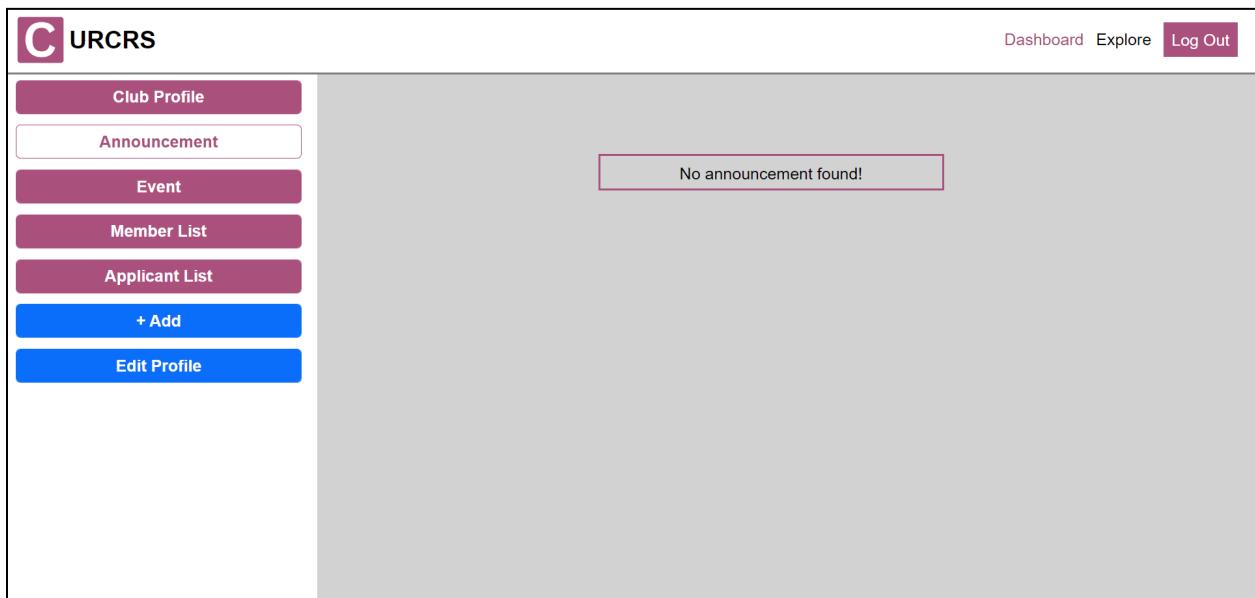


Diagram 5.2.16. Updated announcement list

Club Profile

Announcement

Event

Member List

Applicant List

+ Add

Edit Profile

EDIT CLUB DETAILS

Current Mission:

To cultivate a passion for the English language and literature among students, fostering communication skills, critical thinking, and cultural awareness through engaging activities and discussions.

New Mission:

Current Vision:

To be a dynamic club that inspires fluency and creativity in English language usage, empowering members to excel in academic, professional, and personal endeavors.

New Vision:

Current Email:

englishclub@gmail.com

Diagram 5.2.17. Edit club profile

Club Profile

Announcement

Event

Member List

Applicant List

+ Add

Edit Profile

EDIT CLUB DETAILS

New Vision:

Current Email:

englishclub@gmail.com

New Email:

Current Phone:

01185743645

New Phone:

0178674536

Submit

Diagram 5.2.18. Filled informations to edit club

The screenshot shows a club profile page with a sidebar on the left containing links for Club Profile, Announcement, Event, Member List, Applicant List, + Add, and Edit Profile. The main content area features a 'Mission' section with a description, a 'Vision' section with another description, and a 'Contact' section with email and phone number information.

Mission

To cultivate a passion for the English language and literature among students, fostering communication skills, critical thinking, and cultural awareness through engaging activities and discussions.

Vision

To be a dynamic club that inspires fluency and creativity in English language usage, empowering members to excel in academic, professional, and personal endeavors.

Contact

Email: englishclub@gmail.com
Phone: 0178674536

Diagram 5.2.19. Updated club profile

The screenshot shows an 'Explore' interface for club administrators. It features a search bar with placeholder text 'e.g. Sports Club' and a 'Search' button. Below the search bar is a message encouraging users to browse from a total of 10+ clubs and organizations across UiTM Raub. A large maroon banner at the bottom encourages exploration from various club types.

Explore

e.g. Sports Club

Search

Browse from a total of 10+ clubs and organizations across UiTM Raub.

Or explore from various club types...

Diagram 5.2.20. Club admin explore interface

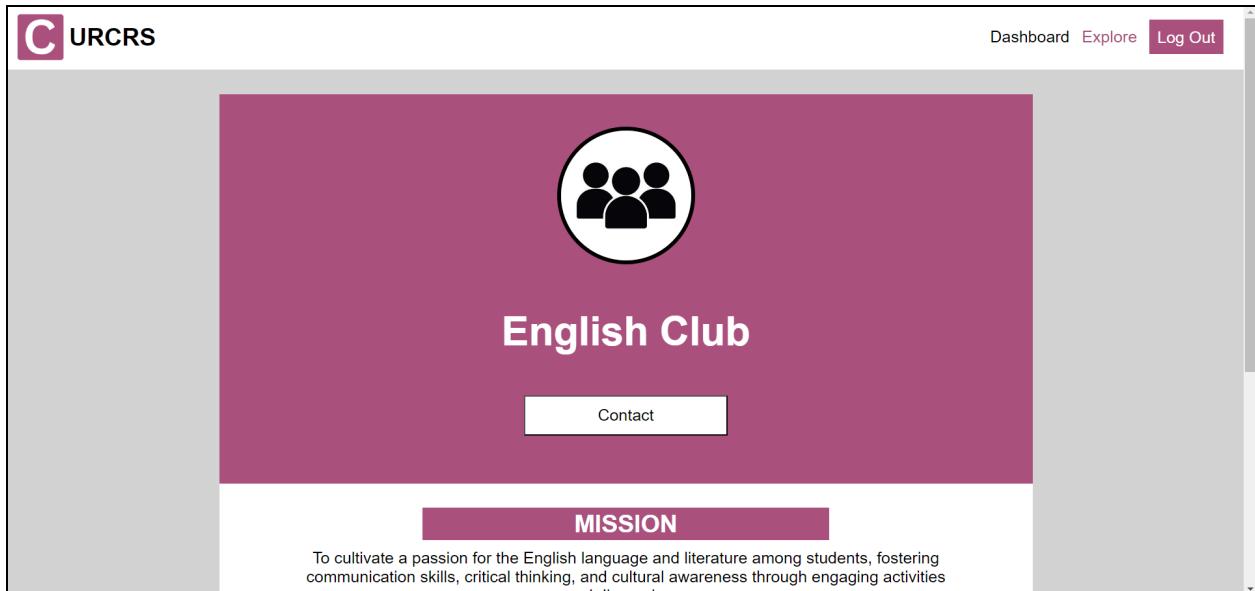


Diagram 5.2.21. Club admin viewing club profile interface

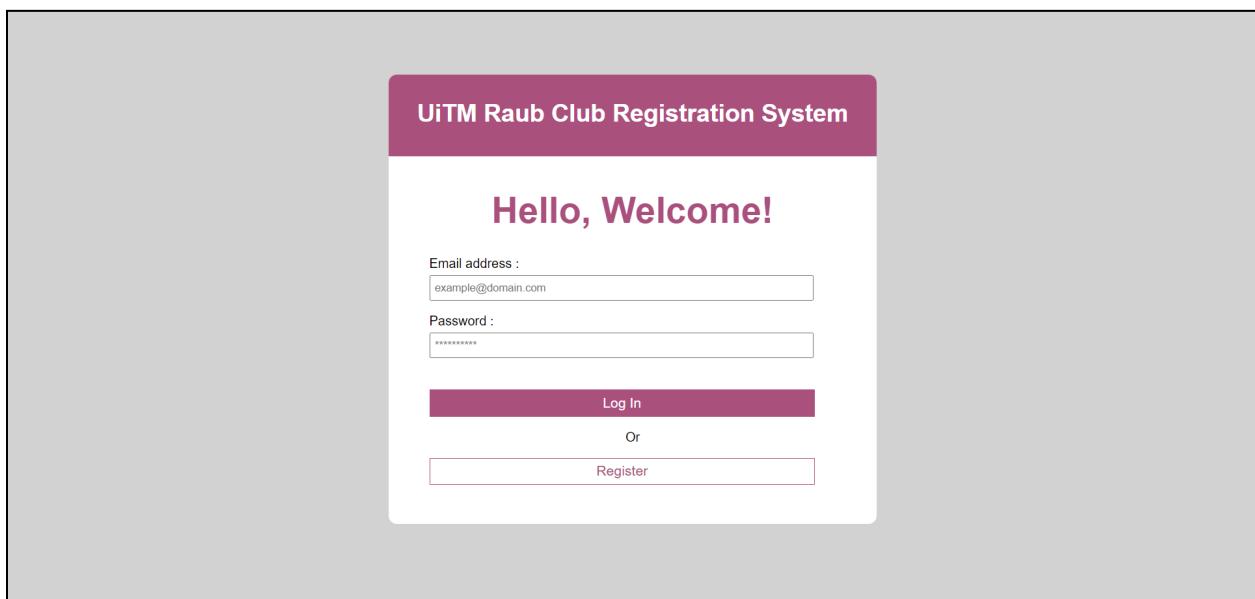


Diagram 5.2.22. Log Out output

5.3 Student Affairs Interface

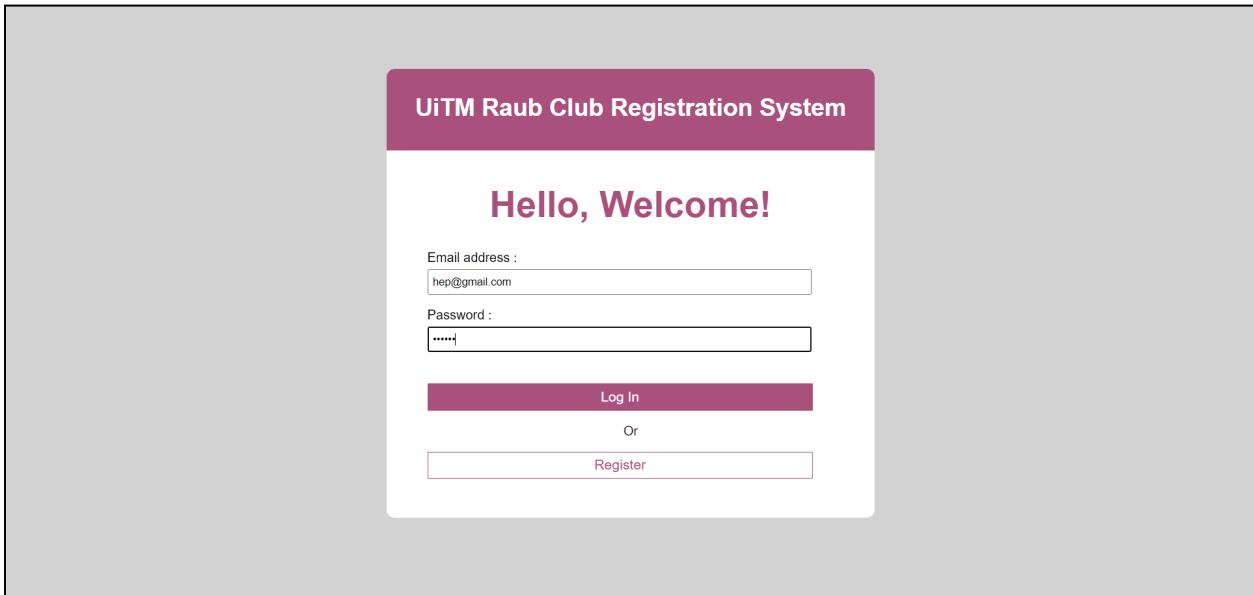


Diagram 5.3.1. Login interface

The image shows the 'All club list' interface for the URCRS system. At the top left is a navigation menu with buttons for 'Show All Club', 'Show All Student', 'Show All Announcement', 'Show All Event', and '+ Add New Club'. The '+ Add New Club' button is highlighted in blue. On the right side, there is a header with 'Dashboard' and 'Log Out' buttons. The main content area displays four club entries, each in its own row:

Club Name	Club Email	Contact	View Profile	Delete
Change Agent Club	cacuitm@gmail.com	Contact	View Profile	Delete
ZUMBA	zumba@gmail.com	Contact	View Profile	Delete
English Club	englishclub@gmail.com	Contact	View Profile	Delete
MYAGROSIS	myagrosis@gmail.com	Contact	View Profile	Delete

Diagram 5.3.2. All club list

The screenshot shows a web application interface for managing student profiles. On the left, there is a sidebar with buttons for 'Show All Club', 'Show All Student' (which is highlighted in white), 'Show All Announcement', 'Show All Event', and '+ Add New Club'. The main content area displays four student records in a grid format:

- Student Name:** Mohd Azim bin Zainal
Student Email: azim90@gmail.com
- Student Name:** Luqman Hanis Daniel bin Khalimi
Student Email: luqman@gmail.com
- Student Name:** Muhammad Amien bin Mohd Hasan
Student Email: amien123@gmail.com
- Student Name:** Aiman Hadi bin Hadafi
Student Email: aimanhadi@gmail.com

Each student entry includes three buttons at the bottom: 'Contact' (blue), 'View Profile' (grey), and 'Delete' (red).

Diagram 5.3.3. All student list

The screenshot shows a web application interface for managing event announcements. On the left, there is a sidebar with buttons for 'Show All Club', 'Show All Student', 'Show All Announcement' (which is highlighted in white), 'Show All Event', and '+ Add New Club'. The main content area displays two event announcements in a grid format:

- Announcer:** Muslim Apprentice Club
Title: Iftar Gathering!
Description: As part of our commitment to fostering community and spiritual growth, the Muslim Apprentice Club is delighted to invite you to our Ramadan Iftar Gathering! Join us for a memorable evening of breaking fast together in the spirit of unity and reflection. Experience the joy of Ramadan with fellow students as we share delicious food and meaningful conversations.
Date: 25-06-2024
- Announcer:** Muslim Apprentice Club
Title: Special Event: Islamic Arts and Culture Exhibition!
Description: We are thrilled to announce a special event hosted by the Muslim Apprentice Club: the Islamic Arts and Culture Exhibition! Join us for an enriching showcase of Islamic art, calligraphy, and cultural displays. Explore the beauty and diversity of Islamic artistry through various exhibits featuring traditional and contemporary artworks. Learn about the rich cultural heritage and artistic traditions that span centuries.
Date: 25-06-2024

Each announcement entry includes a 'Delete' button at the bottom.

Diagram 5.3.4. All announcement list

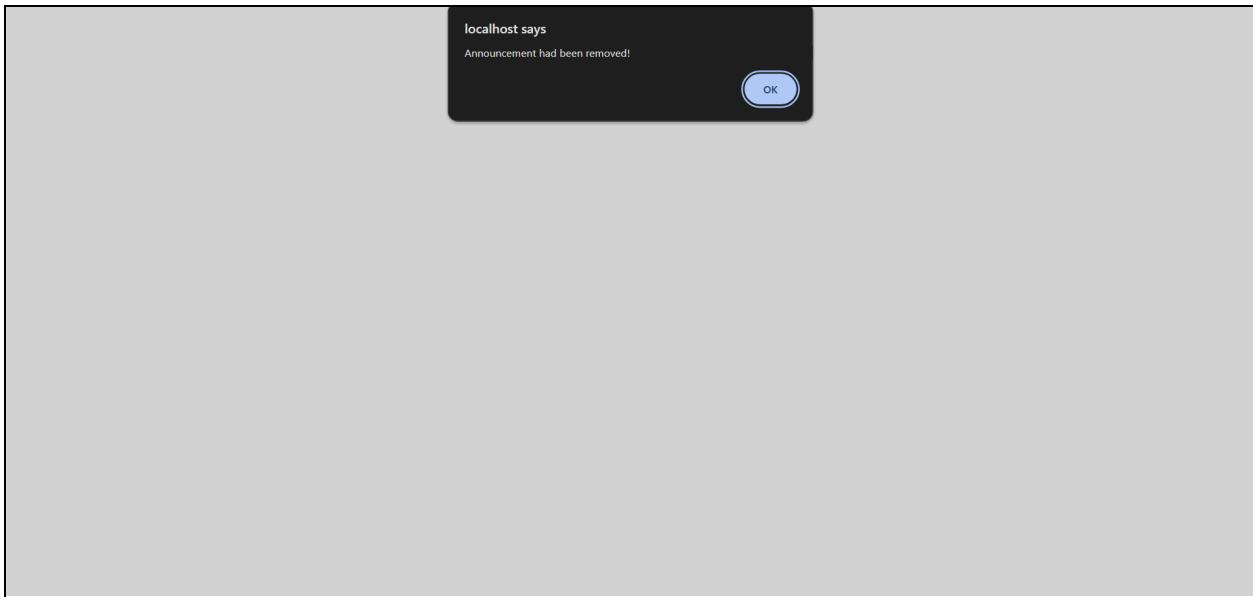


Diagram 5.3.5. Output if delete announcement

A screenshot of the URCRS application. The header shows the logo "URCRS" and navigation links for "Dashboard" and "Log Out". On the left, there is a sidebar with buttons for "Show All Club", "Show All Student", "Show All Announcement", "Show All Event", and "+ Add New Club". The main content area displays two announcements. The first announcement is titled "Special Event: Islamic Arts and Culture Exhibition!" and has a detailed description about the exhibition. The second announcement is titled "Upcoming Activities of the Muslim Apprentice Club!" and has a description about weekly Halaqah sessions. Each announcement has a "Delete" button at the bottom.

Diagram 5.3.6. Updated announcement list

The screenshot shows a web application interface for managing events. On the left, there is a sidebar with buttons for 'Show All Club', 'Show All Student', 'Show All Announcement', 'Show All Event' (which is highlighted in white), and '+ Add New Club' (which is highlighted in blue). The main content area displays two event cards. The first card has the following details:

- Announcer : Muslim Apprentice Club
- Title : Islamic Heritage Day
- Description : Join us for a day of celebration and exploration of Islamic heritage!
- Date : 29-06-2024

A red 'Delete' button is located at the bottom of this card. The second card has the following details:

- Announcer : English Club
- Title : Meeting
- Description : Weekly meeting
- Date : 05-07-2024

A red 'Delete' button is located at the bottom of this card.

Diagram 5.3.7. All event list

The screenshot shows a modal window titled '+ ADD NEW CLUB'. The form contains the following fields:

- Club Name :
- Club Email :
- Password :
- Club Phone :
- Club Category:
- Club Mission (Optional):
- Club Vision (Optional):

On the right side of the modal, there is descriptive text about the club's purpose and activities.

Diagram 5.3.8. Add new club

The screenshot shows the 'Add New Club' form. The club name is 'Titus Takraw Club', email is 'titusraub@gmail.com', password is '*****', phone is '01127363746', category is 'Sports', and mission/vision fields are empty. A note on the right side discusses the club's purpose in enriching students through traditional and artistic traditions.

Club Information:

- Club Name: Titus Takraw Club
- Club Email: titusraub@gmail.com
- Club Password: *****
- Club Phone: 01127363746
- Club Category: Sports
- Club Mission (Optional):
- Club Vision (Optional):

Date: 25-06-2024

Actions: Submit, Delete

Diagram 5.3.9. Filled informations to add club

The screenshot shows the updated club list. It lists four clubs with their names and emails, each with 'Contact', 'View Profile', and 'Delete' buttons.

Club Name	Club Email	Action Buttons
Titus Takraw Club	titusraub@gmail.com	Contact, View Profile, Delete
Change Agent Club	cacultm@gmail.com	Contact, View Profile, Delete
ZUMBA	zumba@gmail.com	Contact, View Profile, Delete
English Club	englishclub@gmail.com	Contact, View Profile, Delete

Diagram 5.3.10. Updated club list

6. Conclusion

This project is developed to encourage students in participating in co-curricular activities. It provides the platform for students to explore various clubs that exist in UiTM Raub. They can view more detailed information about the club that they tend to join, receive important announcements and upcoming events that will be held in the future. The system is not only viable for students, it also helps club administration to manage the club's new member application. Club admin can send an announcement to all club members to notify any news. They can also accept or decline any new member application after verifying the user's identity. Lastly, this system also can be utilized by student affairs to monitor all clubs that exist in UiTM Raub. They can also add or remove any existing clubs and students, and monitor any announcements or events that have been made in the system by all clubs.

7. References

W3Schools.com. (n.d.). <https://www.w3schools.com/php/>

W3Schools.com. (n.d.). <https://www.w3schools.com/sql/>

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