



CSC584 - ENTERPRISE PROGRAMMING

GROUP PROJECT:

University Club Management System

GROUP 7

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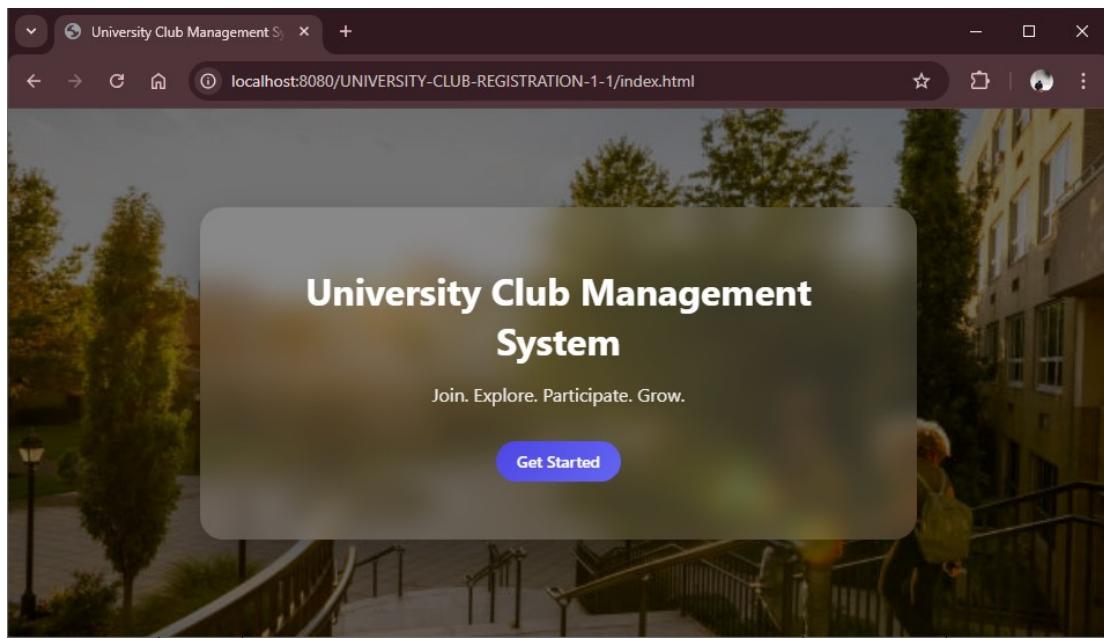
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1. Introduction



The University Club Management System is a web-based application developed to simplify and digitalize the management of university clubs, student applications, and event organization. Traditionally, club registration and event management processes are handled manually, leading to inefficiencies, data redundancy, and delays in approval processes.

This system provides a centralized platform where students can register, apply for clubs, and view upcoming events, while administrators can manage applications, clubs, and events efficiently. The system is developed using Java Servlet, JSP, and Apache Derby Database.

2. Problem Statement

Many universities still rely on manual or semi-digital systems for managing student club activities. This leads to several issues:

- Manual processing of club applications causes delays.
- Difficulty in tracking application status (Pending, Approved, Rejected).
- Poor event visibility among students.
- Data duplication and inconsistency.
- Lack of centralized control for administrators.

Without a structured system, both students and administrators face inefficiencies in managing club memberships and events.

3. Objective

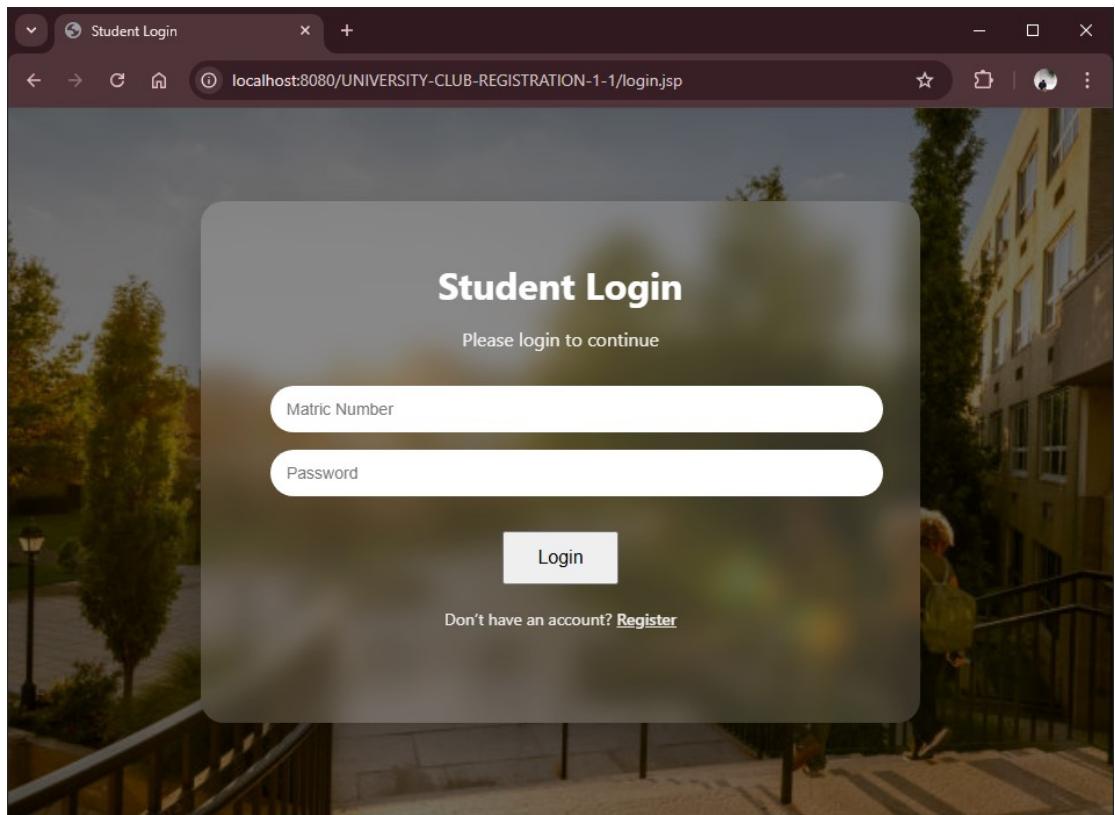
The main objectives of the University Club Management System are:

- To develop a secure login system with role-based access (Student and Admin).
- To allow students to register and apply for clubs online.
- To enable students to view their approved clubs.

- To display upcoming events dynamically.
- To provide administrators with tools to manage applications efficiently.
- To allow administrators to create, edit, and delete clubs and events.
- To maintain organized and structured database records.

4. System Modules and Features

4.1 Login Page



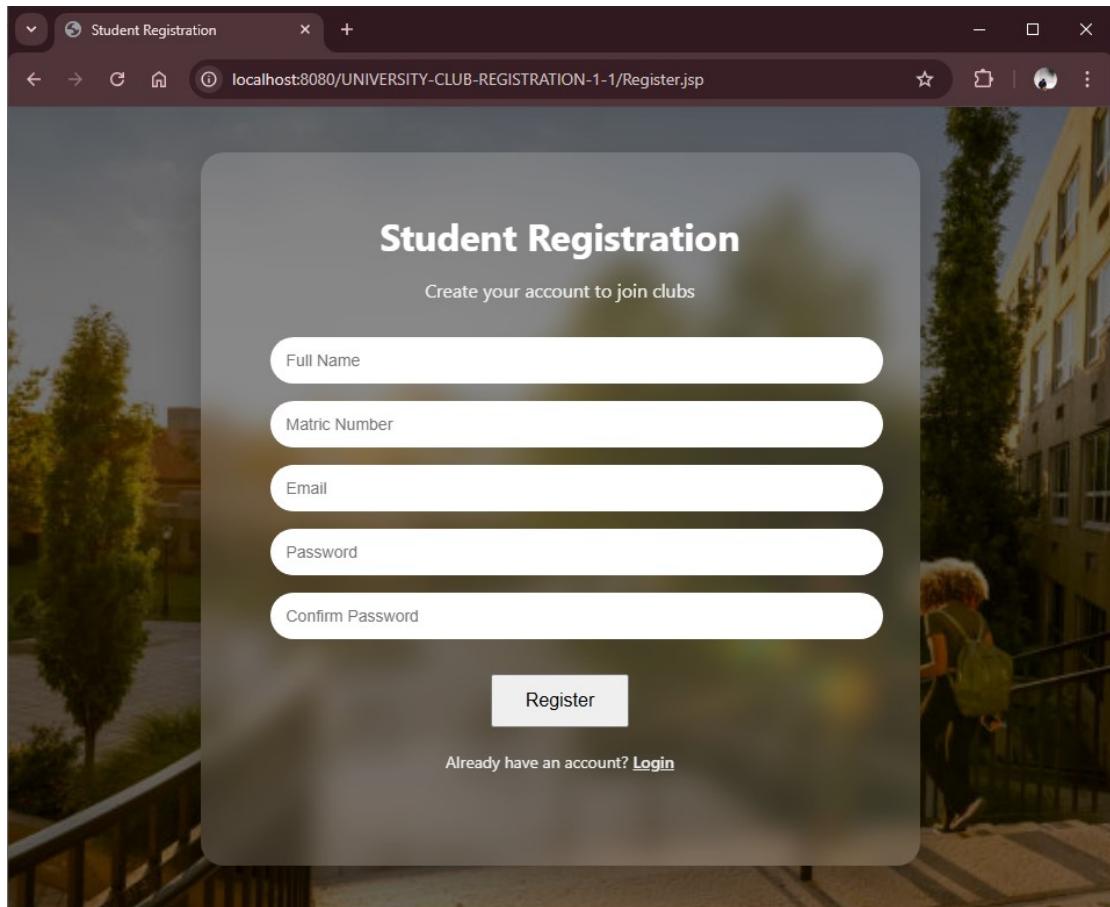
Purpose:

Allows registered users (Student or Admin) to access the system.

Functions:

- User enters Matric Number and Password.
- System verifies credentials.
- Redirects based on role:
 - Student → Student Dashboard
 - Admin → Admin Dashboard

4.2 Register Page



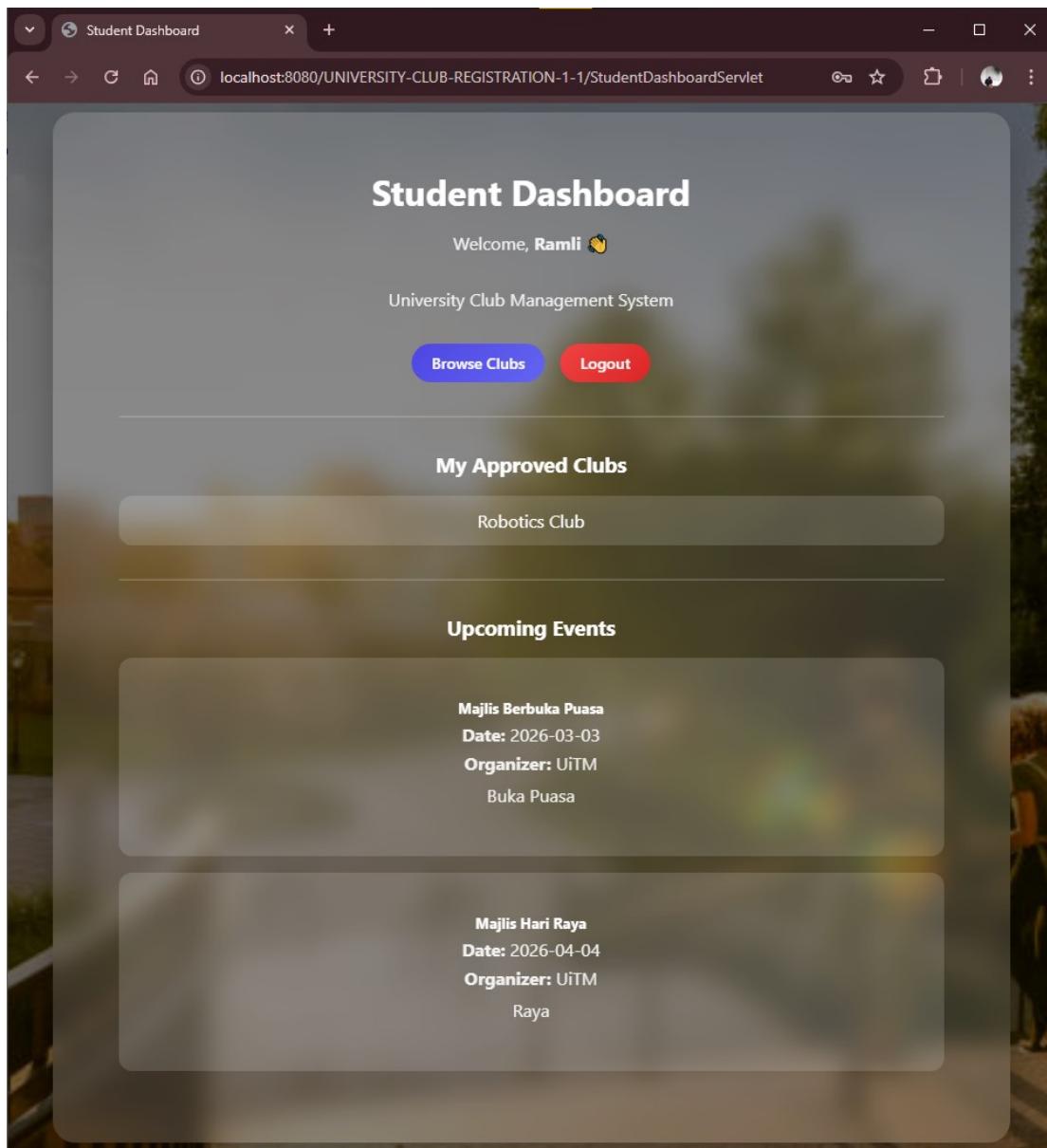
Purpose:

Allows new students to create an account.

Functions:

- Enter matric number, name, and password.
- Account information stored in the database.
- User can log in after registration.

4.3 Student Dashboard



Purpose:

Main page for students after successful login.

Features:

- Displays "My Approved Clubs".
- Displays "Upcoming Events".
- Navigation options:
 - Browse Clubs
 - Logout

Students can easily monitor their club memberships and upcoming activities.

4.4 Browse Available Clubs Page

The screenshot shows a web browser window titled 'Browse Clubs'. The address bar indicates the URL is 'localhost:8080/UNIVERSITY-CLUB-REGISTRATION-1-1/ClubServlet'. The main content area is titled 'Available Clubs' with the subtitle 'Explore and join your favorite clubs'. A search bar at the top says 'Search club or advisor...'. Below is a table with four rows:

CLUB NAME	ADVISOR	ACTION
Robotics Club	Dr Ahmad	View Details
Badminton Club	Mr Lee Chong Wei	View Details
Reading Club	Dr Harry	View Details
Football Club	Mr Azman Adnan	View Details

At the bottom of the page is a blue button labeled 'Back to Dashboard'.

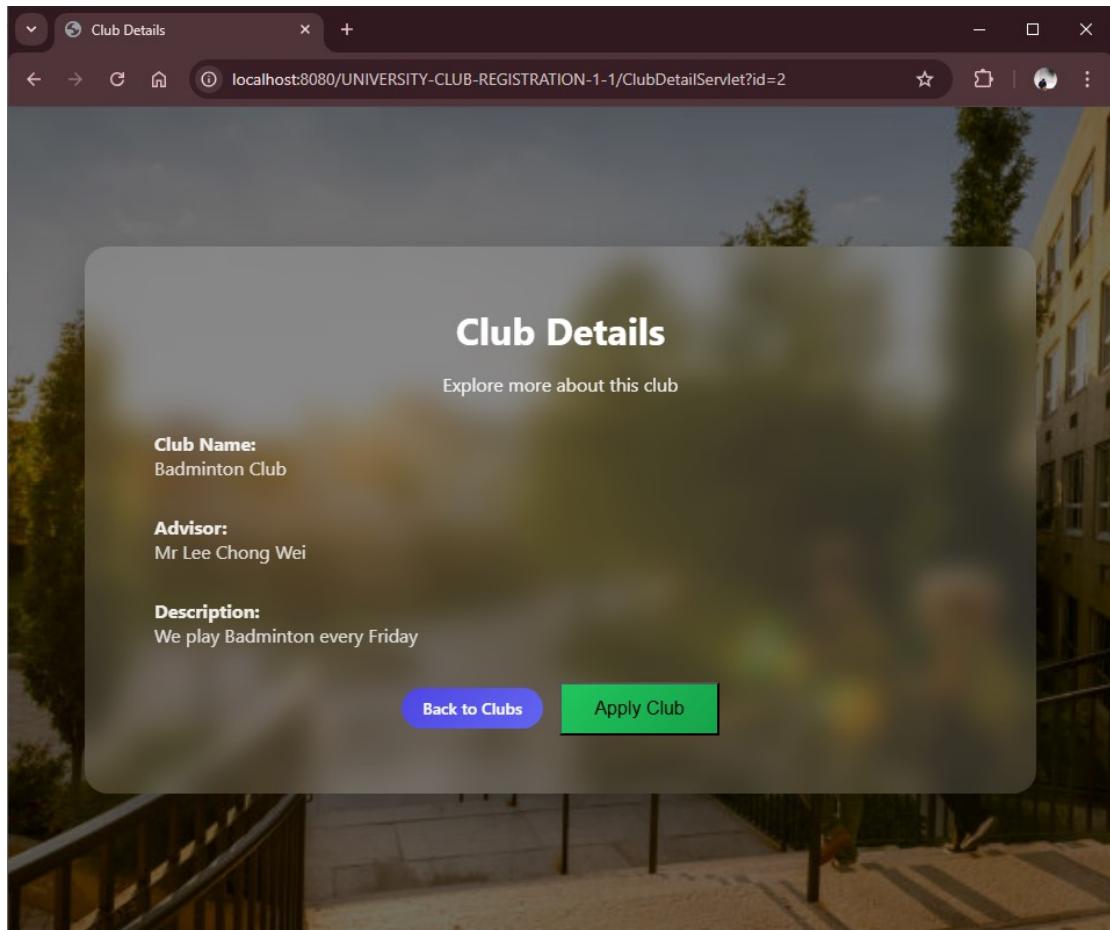
Purpose:

Allows students to view all available clubs.

Features:

- Displays club name, advisor and View Details button.
- Students can scroll to search for clubs.

4.5 Apply to Club Page



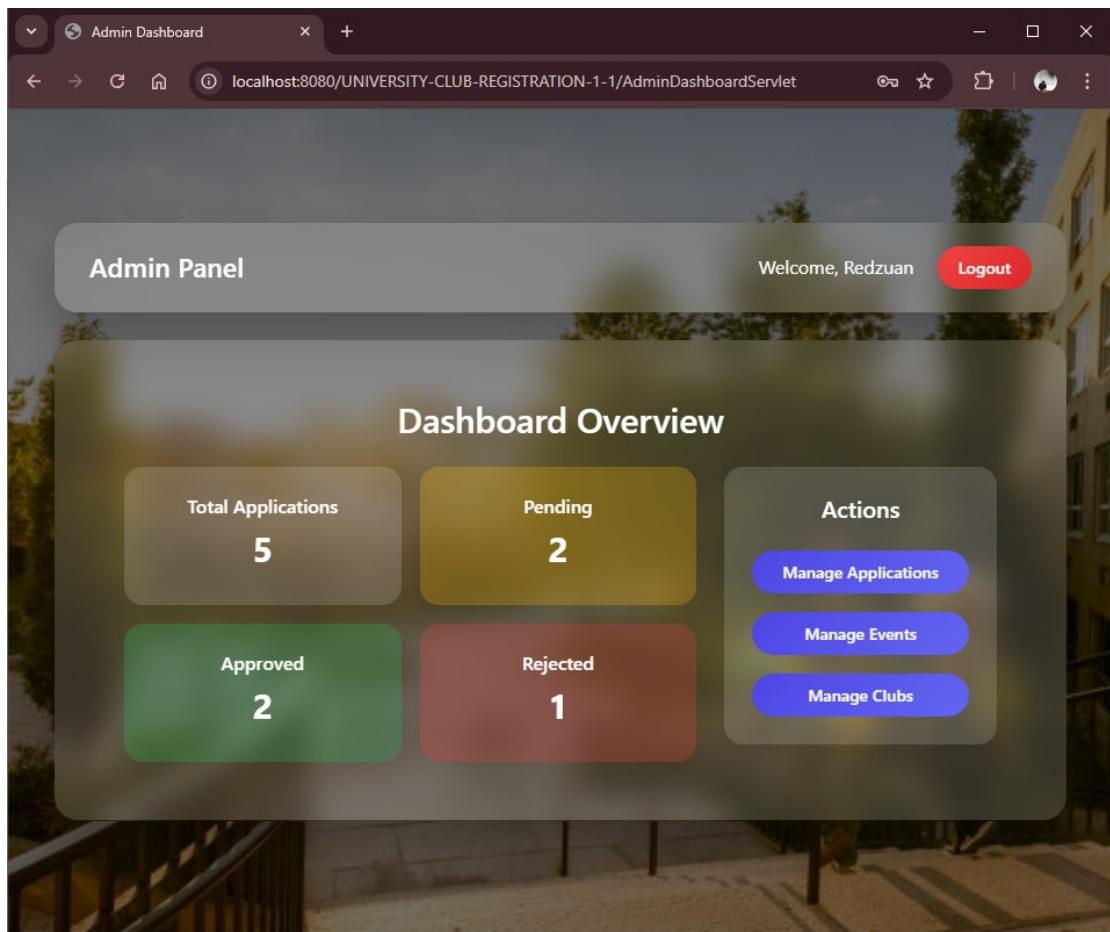
Purpose:

Submit application to join a club.

Process:

- Student clicks Apply Club.
- Application stored with status = "PENDING".
- Awaiting admin decision.

4.6 Admin Dashboard



Purpose:

Control panel for administrators.

Displays:

- Total Applications
- Total Pending Applications
- Total Approved Applications
- Total Rejected Applications

Navigation options:

- Manage Applications
- Manage Events
- Manage Clubs
- Logout

4.7 Manage Application Page

The screenshot shows a web application titled "Club Applications" with the URL "localhost:8080/UNIVERSITY-CLUB-REGISTRATION-1-1/ManageApplicationsServlet". The page displays a list of student applications for club membership. The columns are "STUDENT NAME", "CLUB", and "STATUS". There are two rows for each student, with "ACTION" buttons ("Approve" or "Reject") below each row.

STUDENT NAME	CLUB	STATUS
Ramli	Robotics Club	REJECTED
Ramli	Robotics Club	APPROVED
Ramli	Badminton Club	PENDING
Siti	Robotics Club	APPROVED
Siti	Badminton Club	PENDING

Purpose:

Admin reviews student applications.

Functions:

- View student details and selected club.
- Approve or Reject application.
- System updates status accordingly.

4.8 Manage Events Page

The screenshot shows a web browser window titled "Manage Events" with the URL "localhost:8080/UNIVERSITY-CLUB-REGISTRATION-1-1/ManageEventServlet". The page has a header "Manage Events" and a subtitle "Create and control university events". A blue button "+ Add Event" is at the top right. Below is a table listing events:

NAME PARTICIPANT	DATE STATUS	ORGANIZER ACTION
Majlis Hari Raya Student	2026-04-04 PUBLISHED	UiTM Edit Delete
Majlis Berbuka Puasa Student	2026-03-03 PUBLISHED	UiTM Edit Delete

A blue button "Back to Dashboard" is at the bottom.

Purpose:

Admin manages club events.

Functions:

- Create new event
- Edit event details
- Delete event

Event details include:

- Event Name
- Event Date
- Organizer
- Description
- Contact Person
- Status

4.9 Manage Clubs Page

The screenshot shows a web browser window titled "Manage Clubs" with the URL "localhost:8080/UNIVERSITY-CLUB-REGISTRATION-1-1/ManageClubServlet". The page is titled "Manage Clubs" and "Admin Panel - Club Management". It features a table with four rows of club information:

CLUB NAME	DESCRIPTION	ADVISOR
Robotics Club	Robotics and Innovation	Dr Ahmad Edit Delete
Badminton Club	We play Badminton every Friday	Mr Lee Chong Wei Edit Delete
Reading Club	Since 1970	Dr Harry Edit Delete
Football Club	We train every Saturday	Mr Azman Adnan Edit Delete

At the bottom left is a "Back" button.

Purpose:

Admin manages club records.

Functions:

- Create new club
- Edit club details
- Delete club

5. System Workflow

- Student registers account.
- Student logs in.
- Student browses clubs.
- Student applies to club.
- Admin reviews application.
- Admin approves or rejects.
- Approved clubs appear in Student Dashboard.
- Admin creates events.
- Upcoming events displayed to students.

6. Security Features

- Role-based access control (Student/Admin)
- Session management
- Restricted access to protected pages
- Database integrity enforcement

7. Conclusion

The University Club Management System successfully provides a structured and efficient platform for managing student club activities. It eliminates manual processing, improves application tracking, and enhances communication between students and administrators.

Through automation and database integration, the system increases transparency, reduces administrative workload, and ensures organized record management. This system demonstrates the practical application of web development technologies such as Java Servlets, JSP, and relational databases in solving real-world problems.

Overall, the project achieves its objectives and provides a scalable foundation for further enhancements such as event registration tracking, notification systems, and reporting features.