



## **CSC584 - ENTERPRISE PROGRAMMING**

### **GROUP PROJECT:**

### **University Club Management System**

#### **GROUP 7**

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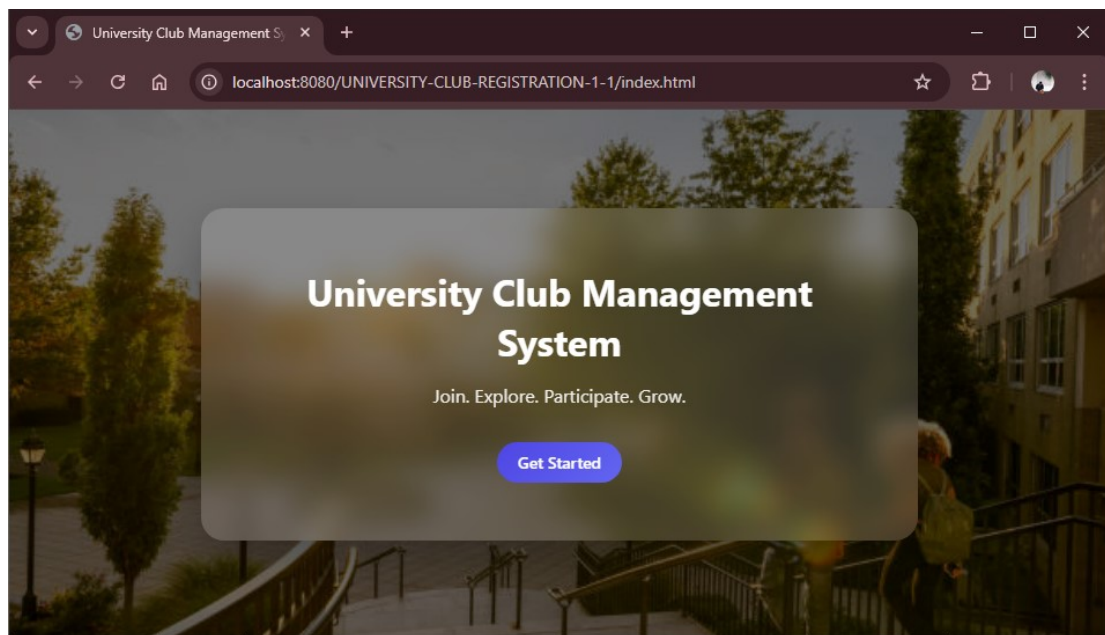
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# 1. Introduction



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.

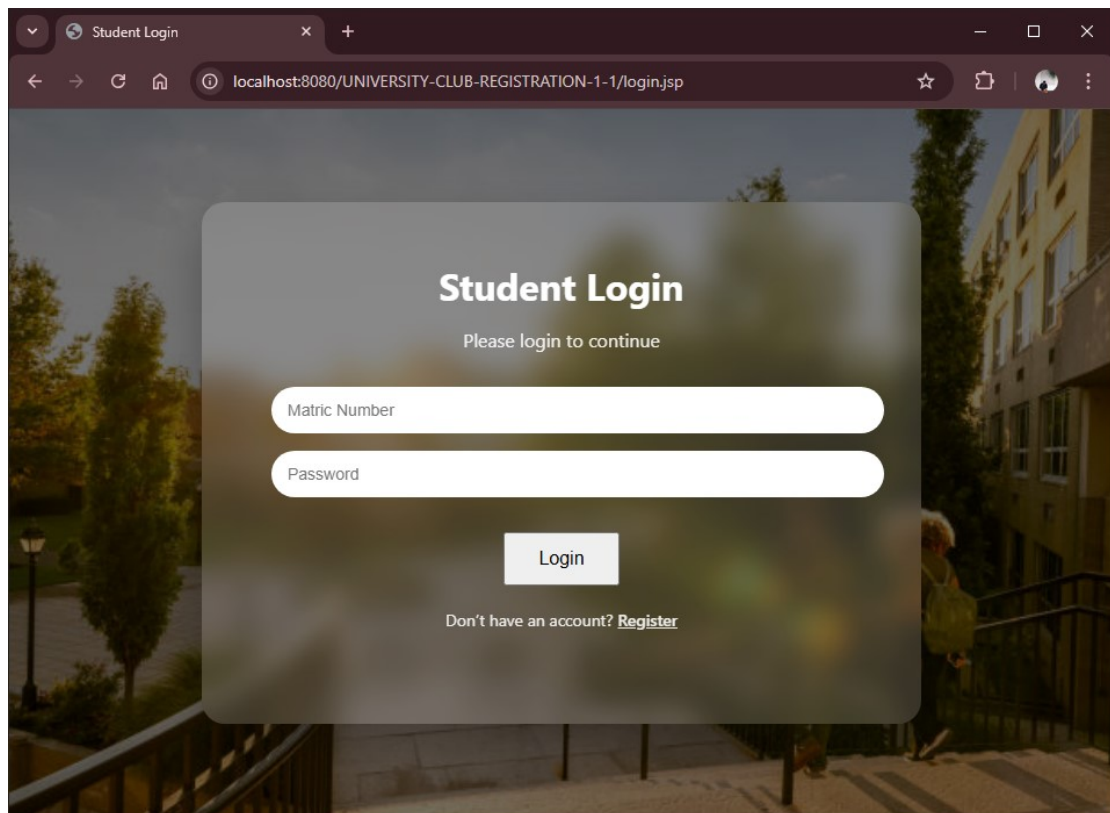
## 3. Objective

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



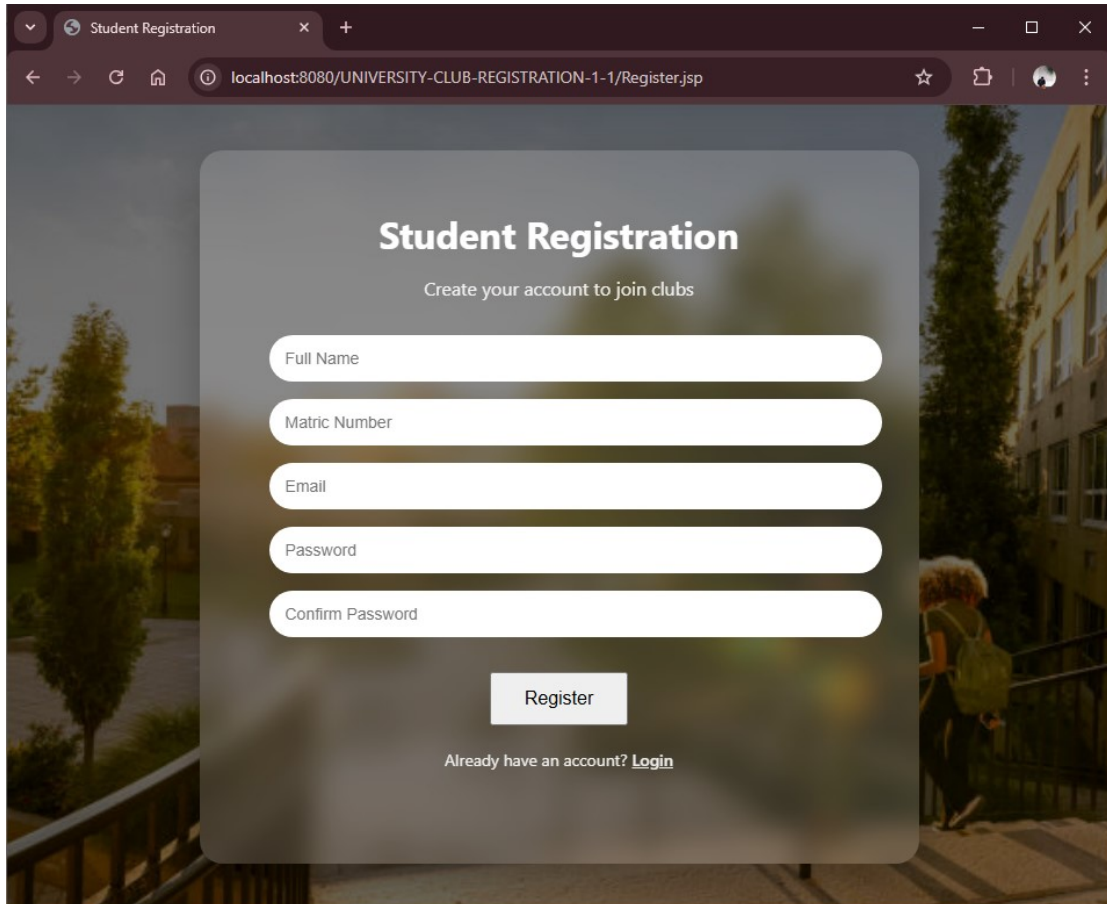
Purpose:

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



The screenshot shows a web browser window with the title 'Student Registration'. The address bar displays 'localhost:8080/UNIVERSITY-CLUB-REGISTRATION-1-1/Register.jsp'. The main content area features a registration form with the following elements:

- Student Registration** (Section Header)
- Create your account to join clubs (Subtext)
- Full Name (Input field)
- Matric Number (Input field)
- Email (Input field)
- Password (Input field)
- Confirm Password (Input field)
- Register (Submit button)
- Already have an account? [Login](#) (Link)

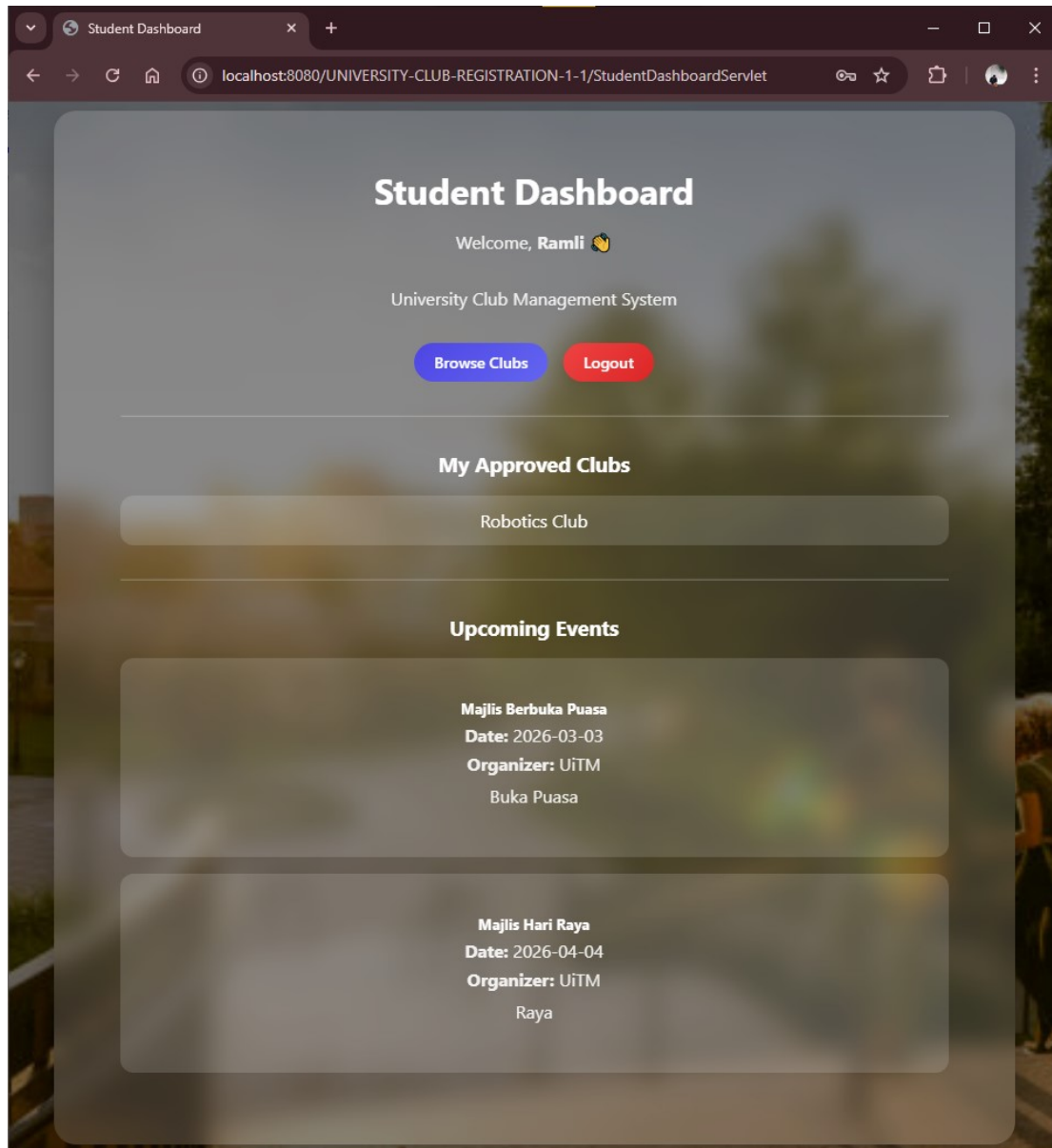
Purpose:

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:

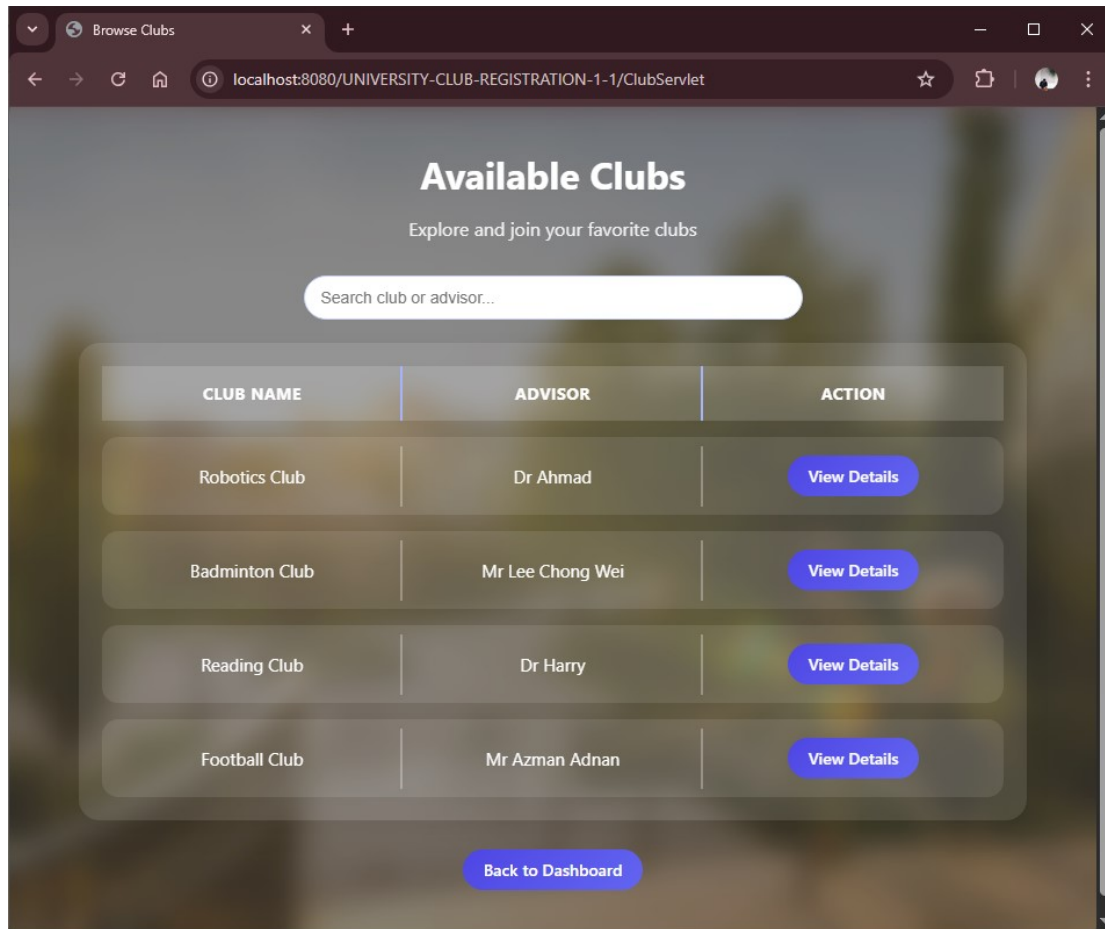
Main page for students after successful login.

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



Purpose:

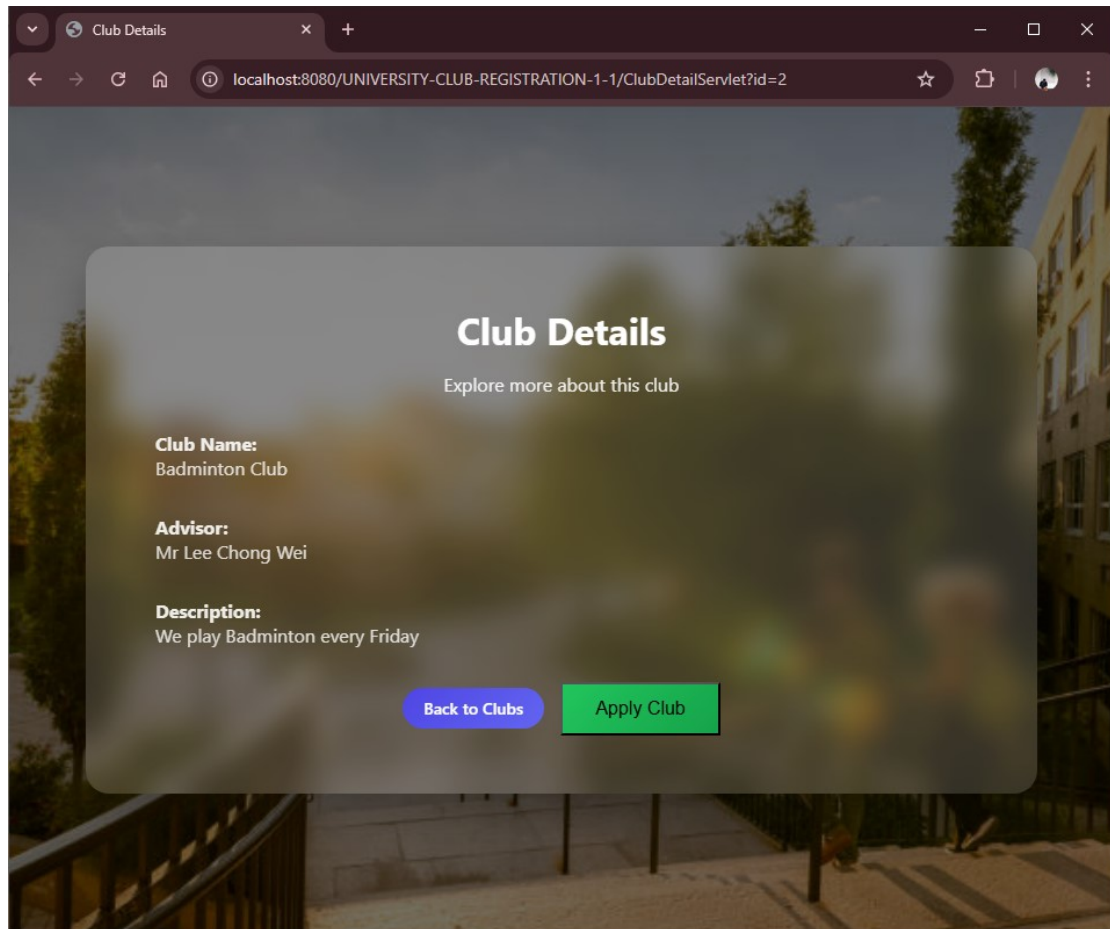
Allows students to view all available clubs.

Features:

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



## 4.5 Apply to Club Page



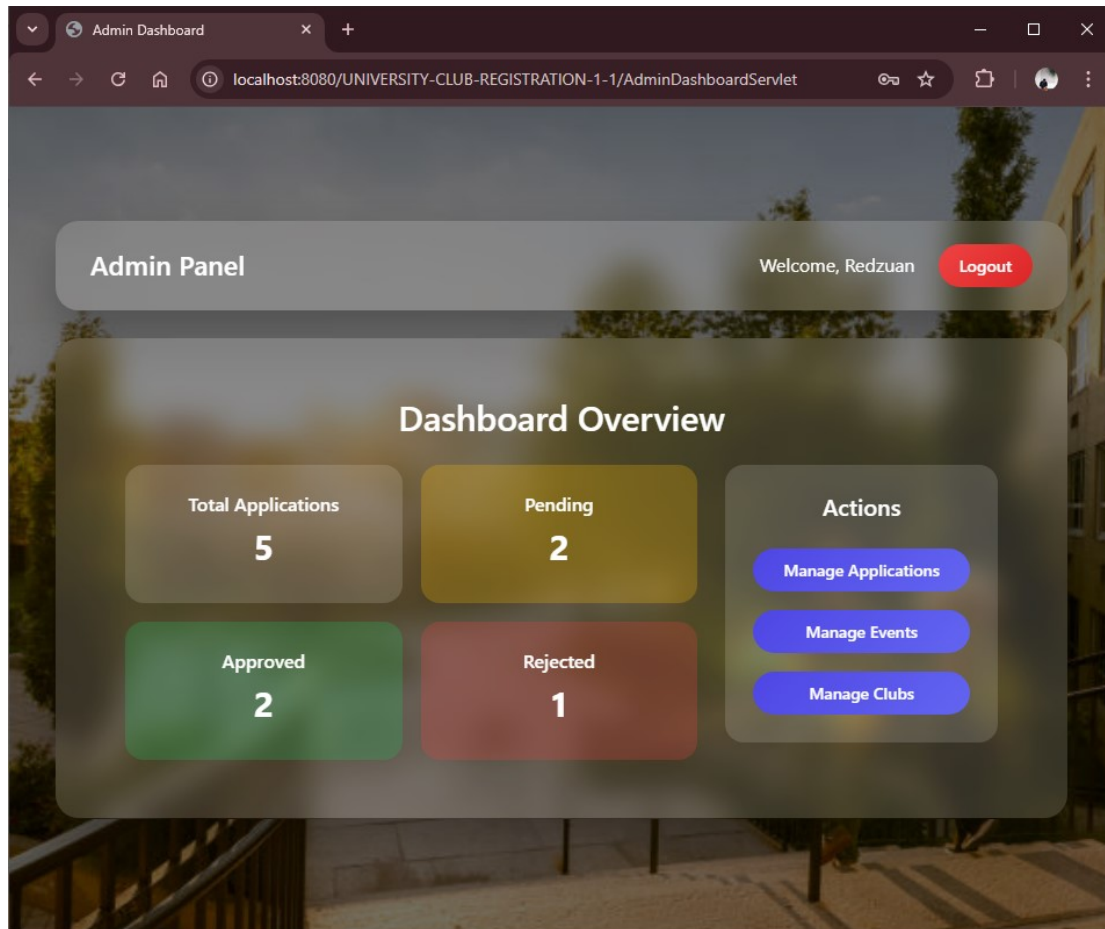
Purpose:

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.

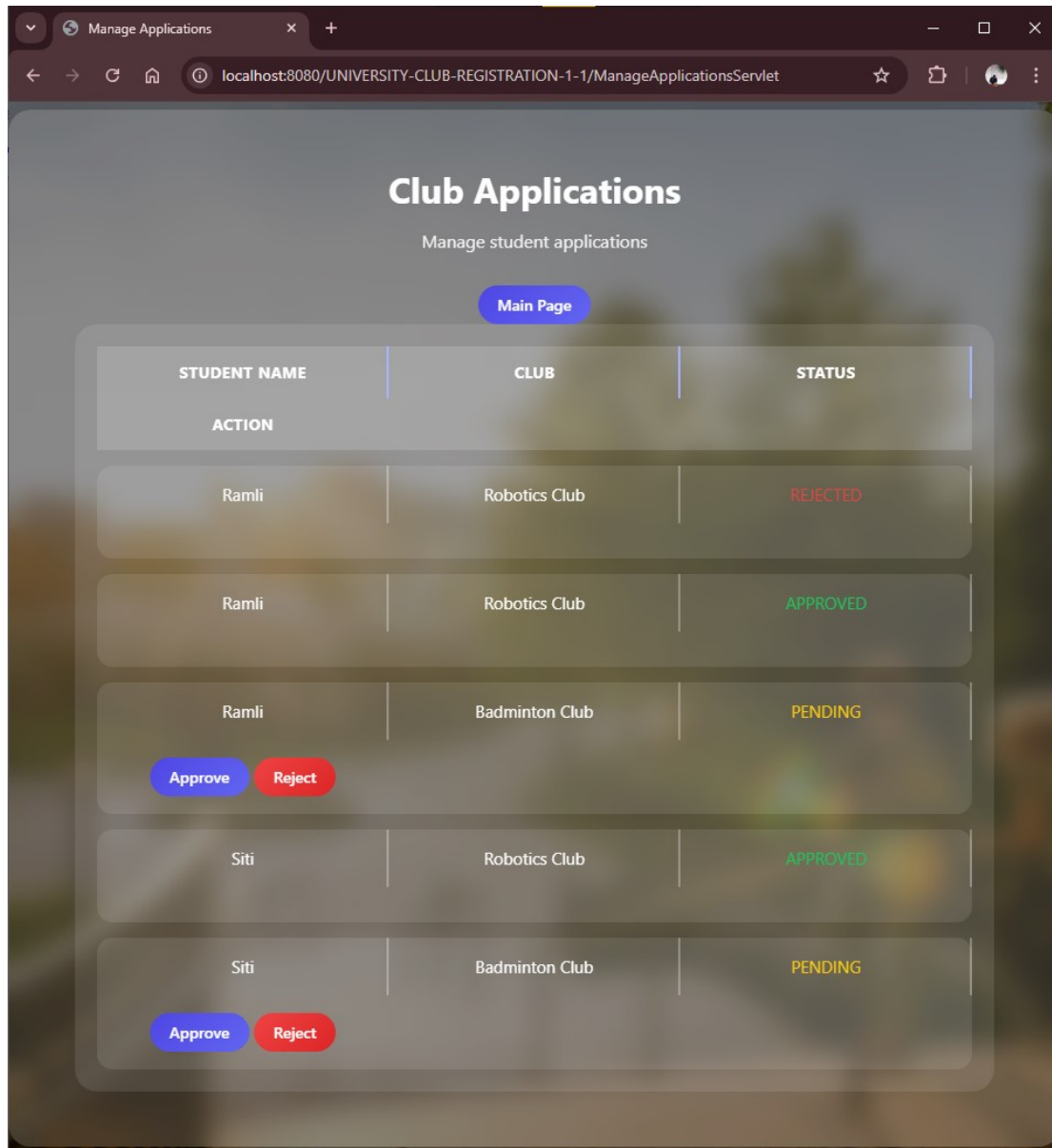
Displays:

- 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



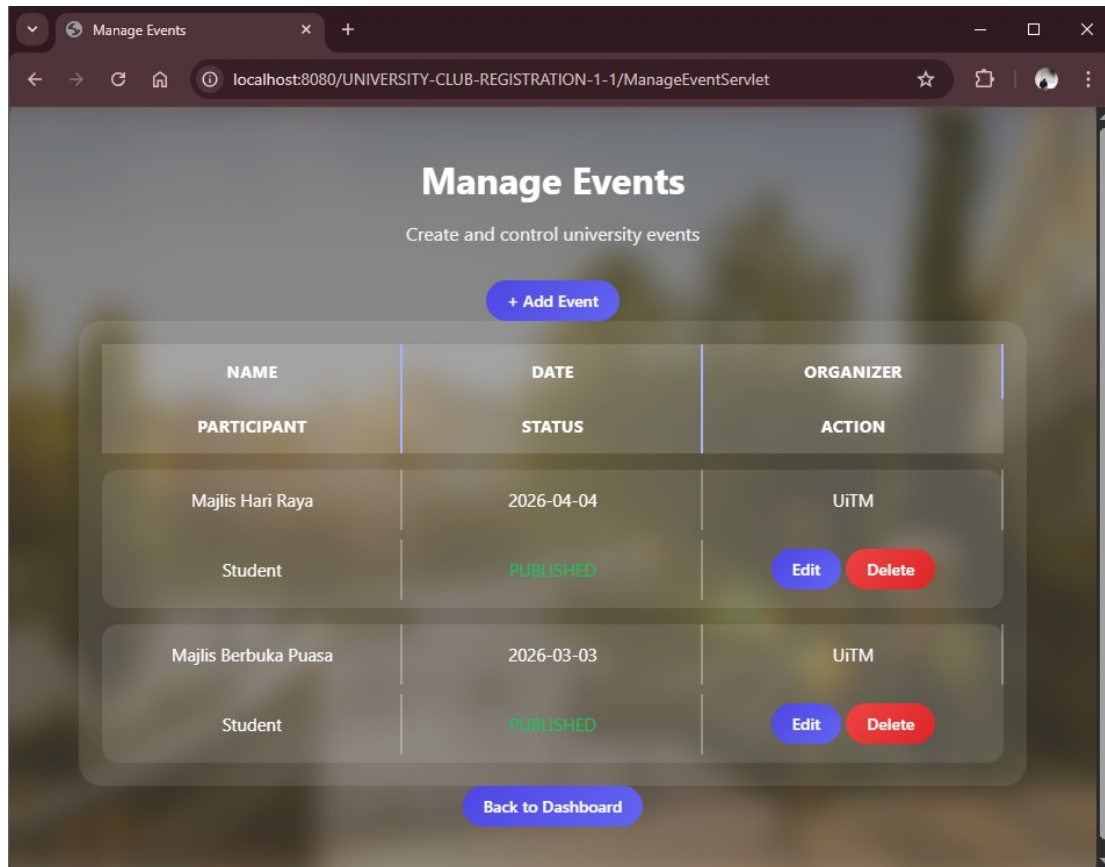
Purpose:

Admin reviews student applications.

Functions:

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

## 4.8 Manage Events Page



Purpose:

Admin manages club events.

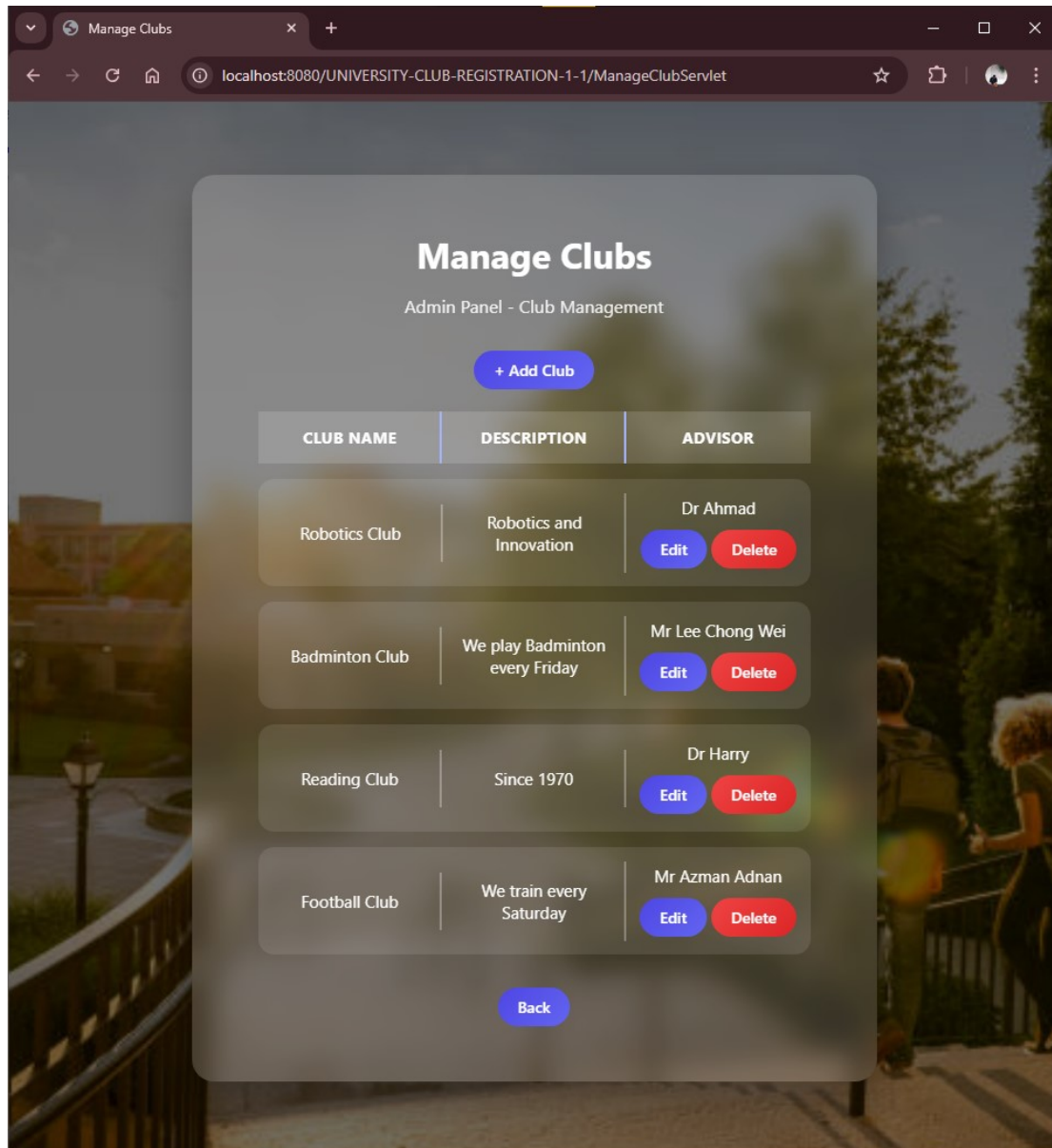
Functions:

- 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



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.