

# Club Hub Proposal

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**Club Hub** is a web-based university club management service designed to enhance experiences among members of various clubs. The application aims to provide a platform for planning club events, managing memberships, facilitating discussions through forums, and fostering community engagement.

## **Functional Requirements:**

### **1. User Registration and Profile Management:**

- Registration/Login:
  - Users can register for an account by providing a school email, student ID, first name, last name, username, password.
  - Users can log in to their accounts with email and password.
  - Users can reset their password.
  - Users can update their personal information(username, contact info).
- Profile Management:
  - Users can create, update, or delete their profiles.
  - Users can view their profile details and edit personal information.
  - Users can logout from their accounts.

### **2. Member Functionality:**

- Participate in Forums:
  - Members can create a post with title and original content/question within the club forum.
  - Members can reply to other members' posts in club forums.
  - Members can upvote or downvote the post and each comment.
- Sign up for Events
  - Members can view the list of events posted by the club.
  - Members can sign up for events by pressing a button.

### **3. Club Management:**

- President Club Management:
  - President and advisor can request to create a club, which must be approved by an administrator or system, providing the club name, description, and other relevant details.
  - President can manage officers in their clubs by assigning roles.
  - President can modify/delete clubs.
  - President can accept or reject membership requests.
  - President can remove members from the club.
- Membership Management:
  - Users can see the list of clubs so they can join.
  - Users can see past club descriptions and past events.
  - Users can request to join clubs.

- Users can leave clubs.

#### **4. Events Announcement Management:**

- Events Management:
  - Presidents and officers can create and announce events with various details (name, description, date, time, location, etc).
  - President and officers can modify, and delete events.
  - Members can view announcements.

#### **5. Forum/Discussion Board:**

- Forum:
  - Club members can discuss topics in various categories.

### **Non-functional Requirements:**

#### **1. Performance**

- Respond to user interaction, allowing data to be accessed within a couple of seconds.
- Ensure data consistency by following ACID properties.
- Common database queries actions should execute in under one second.

#### **2. Usability**

- The application will have an intuitive design, be easily navigable, and user friendly.

#### **3. Security**

- Strong password requirements.
- Protect user data from unauthorized access.
- Enforce data integrity.

#### **4. Scalability**

- The application can be easily modified to adjust current as well as add further functionality.