

# **SRS for**

## **Student Clubs Event Management Platform**

### **Problem Background**

The college faces challenges in efficiently managing student clubs, events, and activities. There's a lack of a centralized platform for club coordinators to get approvals for events, for students to register for these events, and for administrators to manage club details. The portal aims to facilitate these activities.

### **Stakeholders / Users**

1. Students: Members of the college who can join clubs and attend events.
2. Club Coordinators: Individuals responsible for managing a particular student club.
3. Student Council Clubs Coordinator: Person in the Student Council assigned the role of overseeing club activities.
4. Admin: Staff member from the Student Affairs department responsible for overseeing the portal.

### **Stakeholder Roles and Responsibilities**

1. Students: Can view club information, join clubs, and register for events.
2. Club Coordinators: Submit event proposals, manage club details, and update member lists.
3. Student Council Clubs Coordinator: Approves or rejects event proposals and new club formation.
4. Admin: Can change club coordinators, approve new clubs, and oversee general portal maintenance.

### **Functional Requirements**

1. Club coordinators can submit forms for event proposals.
2. Student Council Clubs Coordinator receives notifications for new proposals and can approve or reject them.
3. Students can view a list of clubs along with their details such as mission, current members, and upcoming events.
4. Students can register for approved events through a calendar interface.
5. Admin has an admin panel to change club coordinators, accessible only after two-factor authentication.
6. Users can fill in a 'New Club Request Form' for creating new clubs.

7. New club formation goes through a two-step approval by the Student Council Clubs Coordinator and then the admin.
8. Requests for new events are sent as notifications to the Student Council Clubs Coordinator for approval.
9. Students can log in using OAuth 2.0 with their college email addresses.

## Performance Requirements

- The system must handle up to 500 concurrent users.
- The database should be optimized for read and write operations, ensuring a latency of less than 2 seconds.

## Design Constraints

1. Must be compatible with the latest versions of Chrome, Firefox, and Safari.
2. Mobile-responsive design.

## External Interfaces

1. Integration with Google API for OAuth 2.0 authentication.
2. Database schema will be created to hold user information, club data, and event details.

## Security Requirements

1. HTTPS for secure data transmission.
2. Role-based access control to restrict functionalities based on user roles.
3. Two-factor authentication for admin users.

## Use Cases

### 1. Submit Event Proposal

- 1.1. **Actor:** Club Coordinator
- 1.2. **Purpose:** To submit an event for approval.
- 1.3. **Event Flow:**
  - 1.3.1. Log in
  - 1.3.2. Navigate to 'Submit Event' page
  - 1.3.3. Fill in event details
  - 1.3.4. Click 'Submit'
- 1.4. **Special Requirements:** None

### 2. Approve Event

- 2.1. **Actor:** Student Council Clubs Coordinator
- 2.2. **Purpose:** To approve/reject event proposals.

**2.3. Event Flow:**

- 2.3.1. Log in
- 2.3.2. Navigate to 'Pending Events' page
- 2.3.3. Review event details
- 2.3.4. Click 'Approve' or 'Reject'

**2.4. Special Requirements:** Must have role-based permission to approve.

**3. Register for Event**

**3.1. Actor:** Student

**3.2. Purpose:** To register for an approved event.

**3.3. Event Flow:**

- 3.3.1. Log in
- 3.3.2. Navigate to 'Available Events'
- 3.3.3. Select event
- 3.3.4. Click 'Register'

**3.4. Special Requirements:** Event must be approved.

**4. Change Club Coordinator**

**4.1. Actor:** Admin

**4.2. Purpose:** To change the club coordinator.

**4.3. Event Flow:**

- 4.3.1. Log in
- 4.3.2. Navigate to 'Clubs' page
- 4.3.3. Select club
- 4.3.4. Change coordinator

**4.4. Special Requirements:** Must be an authorized admin.

## **Glossary**

- 1. Event Proposal: A document containing details about a planned event by a club.
- 2. Two-step Approval: An approval process that requires validation from two different roles.
- 3. OAuth 2.0: Open standard for access delegation commonly used for token-based authentication.