

CS4530 Final Project: CampusBuzz - Club and Event Discovery

Project Features

CampusBuzz is a campus engagement platform that connects students with clubs and events. It provides event discovery, RSVP management, club browsing, real-time notifications, and administrative tools for managing campus life.

Students	Officers	Administrators
<p>The platform offers event discovery with filters (Featured, Trending, Upcoming, Free Food), personalized recommendations, and search. Students can RSVP to events with automatic waitlist handling, view RSVP history, and track upcoming and past events. They can browse clubs by category and affiliation, join clubs, follow favorites, and see club events. Profiles support interests, preferences, and privacy settings. Real-time notifications cover event updates, RSVP confirmations, waitlist promotions, club updates, and application status changes. Students can save events, view student profiles, and participate in event discussions.</p>	<p>Officers can create and manage events with details, set capacity limits, and enable waitlist. They can edit and cancel events, collaborate with other clubs on co-hosted events, and request featured status. Member management includes viewing members, assigning officer roles, approving membership requests, and tracking attendance. Club customization includes logos, branding, descriptions, social links, and event listings. Analytics include attendance, event statistics, member growth, and engagement metrics. Officers can send email notifications to members about events and updates.</p>	<p>Administrators manage club applications through an approval workflow, review applications, approve or reject clubs, and track application status. They can feature events on the homepage, manage featured event requests, and control school-wide visibility. School settings include custom club affiliation tags, school-wide configurations, and multi-school support. Content moderation includes reviewing reports, managing flagged content, and enforcing policies. Analytics and reporting provide insights into platform usage, event attendance, club activity, and student engagement.</p>

Design Changes

Major Changes:

- Persistent content model → temporal event model.
- Removed voting/answers, added RSVP/waitlist.
- Communities → structured clubs with approval workflows & officer hierarchies.
- Users → Students with personalized recommendations.
- Removed Q&A/voting/messaging.
- Added event pages with RSVP management, club pages with officer dashboards, student pages for engagement tracking, & Admin Dashboard with moderation/analytics.

Refactored: Questions → Events, Communities → Clubs, Users → Students.

New: RSVP, School, Club Application, Event Feature Request, Event Collaboration Invitation, Event Template.

Future Work

- Email Verification** - only legitimate students register by verifying school email addresses.
- Stronger Authentication** - Enhance security with stronger passwords, token/session management, multi-factor authentication, rate limiting, etc.
- Performance Enhancements** - Use caching, optimized images, lazy loading, and efficient database queries to improve load times and support larger user bases.

