

**Course:** COP 4710 – Spring 2025

**Term:** Spring 2025

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## **1. Project Description & Assumptions:**

The college event website is a dynamic web application developed to solve the problem of fragmented event communication by offering a platform that supports multi-role user access, RSO creation, event posting, social interaction through comments and ratings, and even external event feed integration.

- Main Problem Solved in the project:**

Some universities suffer from having static event websites that display only official events. However, this project enables the students to track events weekly, interact socially, or view events hosted by smaller student groups or RSOs. We provide a full-stack platform that connects students, admins, and super admins with various events, including public, private, and RSO-specific, which would solve the problem if static event websites were forever.

- Key Functional Requirements:**

- User Roles:**
  - Super Admin: Creates and manages universities, approves public events.
  - Admin: Manages RSOs and creates events.
  - Student: Can register, join RSOs, view and interact with events (comment, rate).
- Event Types:**
  - Public: Viewable by everyone.
  - Private: Viewable only by students of the host university.
  - RSO: Viewable only by members of the hosting RSO.
- RSO Rules:**
  - An RSO can be created by a group of at least 5 students from the same university email domain.
  - An RSO becomes active when it reaches 5 members and inactive if it falls below that.
- Comment & Rating System:**
  - Students can leave comments and rate any event they have access to.
  - Ratings are stored on a 1–5 star scale.
- Location & Timing:**
  - Events are assigned to specific locations with latitude/longitude support.

- The system prevents overlapping events at the same time and location.

- **External Event Feed:**

- UCF event feed integration via a JSON mock file.
- External events are fetched and displayed to enhance real-time event access.

- **Assumptions:**

To simplify and focus on the project:

- **Image uploads** are limited to server-side folder storage without external CDN integration.
- The **location map** is text-based (name/lat/lon), without real map API embedding.
- **Authentication** is handled through a simple session-based login
- **Mobile responsiveness** is supported via basic CSS but not fully optimized for all devices.

**Social media posting** is planned but not yet implemented

## 2. GUI: Platform and Screenshots

The College Event Website features a browser-based interface designed to be both user-friendly and accessible. The application follows a dashboard-style layout for each role (Student, Admin, Super Admin) with a consistent theme and responsive design. Key pages are tailored to role-specific tasks, such as viewing events, creating RSOs, and managing users or universities.

## Platform and Technologies Used

- **Frontend:**

- HTML, CSS, JavaScript
- Custom dark/light theme support using CSS variables
- Responsive layout styled for desktops and tablets

- **Backend:**

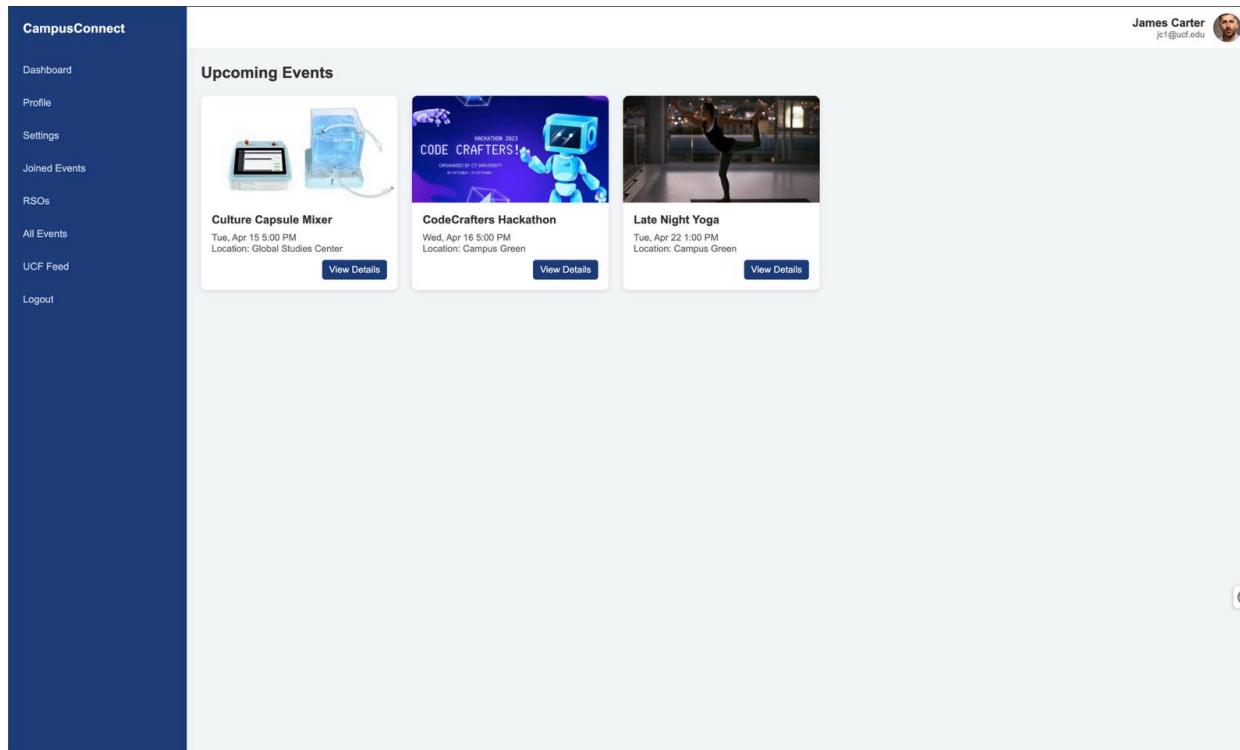
- PHP
- MySQL database via WAMP stack
- Session-based authentication

- **Database:**
  - MySQL with foreign key constraints
  - Data populated via SQL scripts and mock feeds
- **Event Feed Integration:**
  - External events are loaded from a JSON file, simulating the UCF event feed

## Key GUI Pages and screenshots

- **Student Interface**

- **Dashboard:** View all relevant events (public, private, RSO)



This display:

1. upcoming events
2. Private events at the university
3. Any events in the RSO that the student joined
4. Public events that is approved by the super admin

- **Event Details:**

The screenshot shows a user interface for an event listing. On the left is a vertical sidebar with a dark blue background and white text, titled "CampusConnect". It contains links: Dashboard, Profile, Settings, Joined Events, RSOs, All Events, UCF Feed, and Logout. To the right of the sidebar is the main content area. At the top right of this area is a user profile for "James Carter" with the email "jc1@ucf.edu" and a small profile picture. Below the sidebar, there are two images: one of a small electronic device with a screen and buttons, and another of a clear plastic container with a blue liquid and a tube. The title of the event is "Culture Capsule Mixer". Below the title is a teal button labeled "RSO EVENT". Underneath the button, the event details are listed: Date: 2025-04-15, Time: 17:00:00 - 20:00:00, Location: Global Studies Center, Description: Celebrate global traditions with food, music, and games., and Created By: Ethan Roberts. There are two blue buttons at the bottom: "Join Event" and "Back to Events". Below these buttons is a section titled "Share this event:" with three social media icons: Facebook (F), X (X), and LinkedIn (In).

This displays:

1. The event data
2. The event time
3. The event location
4. The event description
5. Who created the event
6. Share through X, facebook, and linkedin

- **Comment:**

The screenshot shows the CampusConnect application interface. On the left, there is a dark blue sidebar with the following menu items: Dashboard, Profile, Settings, Joined Events, RSOs, All Events, UCF Feed, and Logout. On the right, the main content area has a header "Comments for: Culture Capsule Mixer". Below this is a text input field with placeholder text "Leave your comment..." and a "Post Comment" button. Underneath is a comment card for "James Carter" dated "2025-04-09 23:11:57" with the message "I am really waiting for that event". There are "Delete" and "Edit" buttons at the bottom of the card.

This displays a box where the student can put comments for the events

- **Joined events and Rate**

The screenshot shows the CampusConnect application interface. On the left, there is a dark blue sidebar with the following menu items: Dashboard, Profile, Settings, Joined Events, RSOs, All Events, UCF Feed, and Logout. On the right, the main content area has a header "My Joined Events". It displays a card for an event titled "Culture Capsule Mixer" with the date "Tue, Apr 15 5:00 PM", location "Global Studies Center", type "Rao", and rating "Not rated". Below the card is a rating scale from 1 to 5 stars, with a checked checkbox next to "Rate". There are "Submit" and "Cancel" buttons at the bottom of the rating panel.

**This displays the events the student joind and allow him/her to rate the event on a scale from 1 to 5**

- **Student RSOs:** View and leave RSOs :

The screenshot shows the 'My RSOs' section of the CampusConnect application. On the left is a sidebar with navigation links: Dashboard, Profile, Settings, Joined Events, RSOs, All Events, UCF Feed, and Logout. The main area is titled 'My RSOs' and displays two RSO entries. The first entry is 'CodeCrafters' with a thumbnail image of a computer screen showing code. The second entry is 'Culture Capsule' with a thumbnail image of a colorful, abstract scene. Below each entry is a 'View Details' button.

This is a condition when there were 5 students in the RSO, and one student left; hence, the RSO became pending, waiting for the super admin to approve it when the student number becomes at least 5 again.

- **Student browses event page:**

The screenshot shows the 'Browse Events' section of the CampusConnect application. On the left is a sidebar with navigation links: Dashboard, Profile, Settings, Joined Events, RSOs, All Events, UCF Feed, and Logout. The main area is titled 'Browse Events' and displays six event cards arranged in two rows of three. The events are: 'Earth Day Celebration' (Public Event), 'Outdoor Movie Night' (Public Event), 'Coding Practice Group' (Private Event), 'Culture Capsule Mixer' (RSO Event), 'CodeCrafters Hackathon' (RSO Event), and 'Late Night Yoga' (Private Event). Each card includes details like date, time, and location, followed by a 'View Details' button.

Here is the page, where the student can see all the events that he is or was allowed to join (the past/ upcoming events the student is allowed to join)

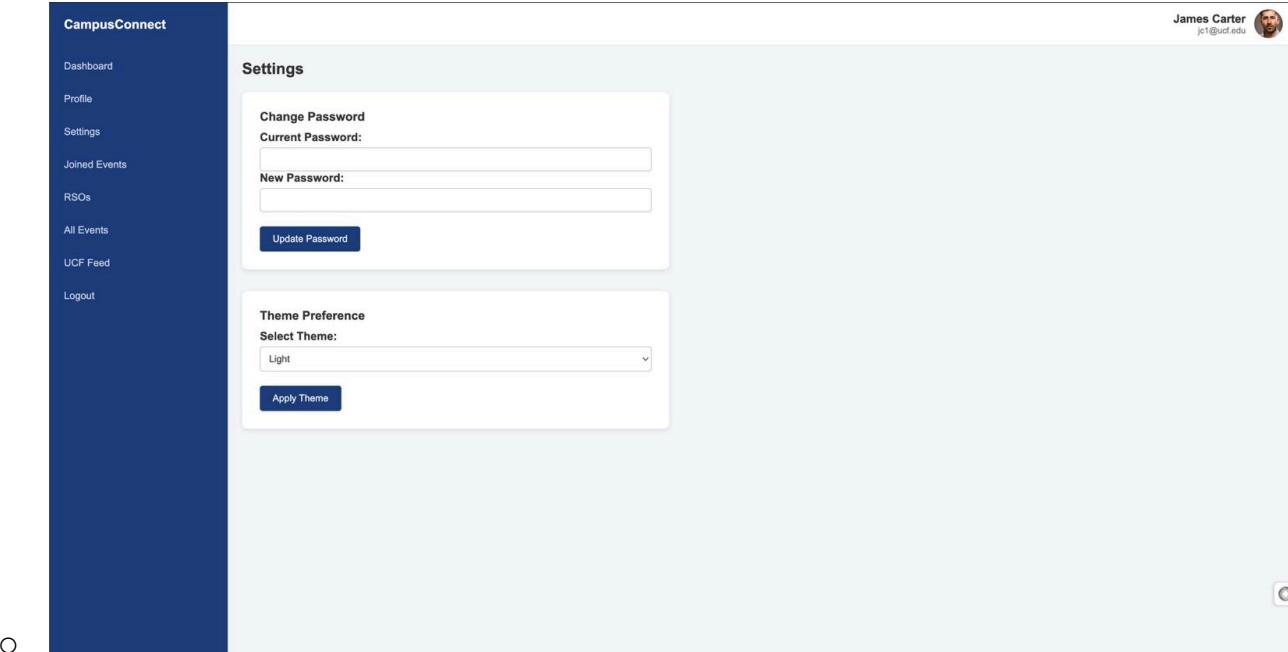
- **UCF Feed :**

This page displays UCF's real events for students

- **Student profile:**

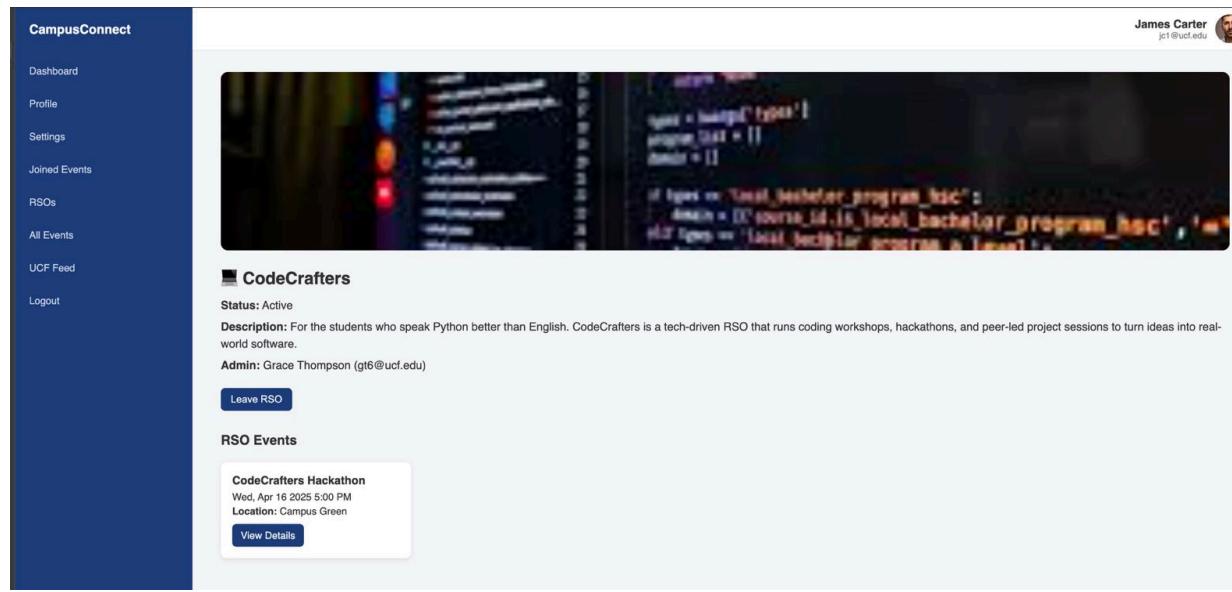
This page displays the student profile, including the photo, full name, university email, phone number, major, and allows him/ her to upload a photo.

- **Student settings page:**



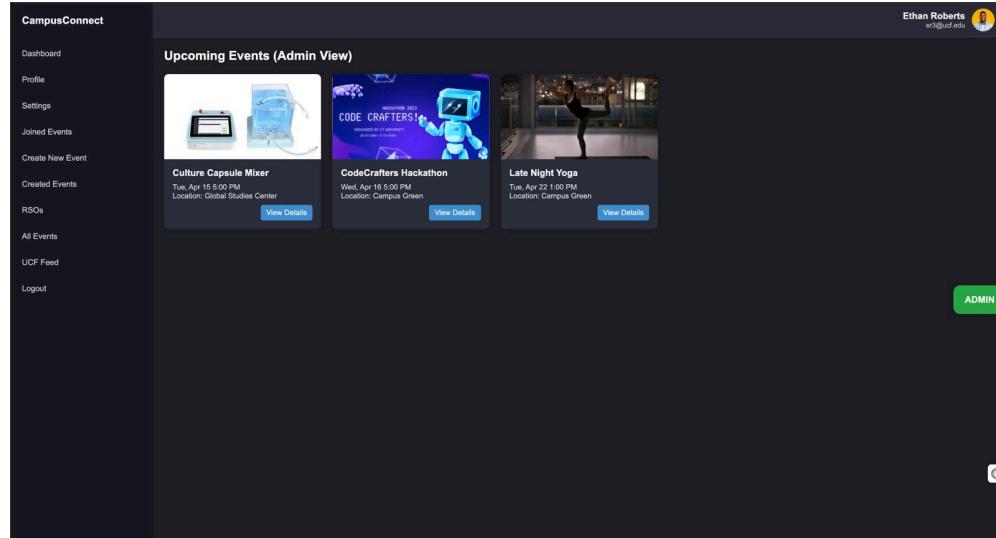
- This page allows the student to change his/ her password, and to choose light or dark theme

- **RSO page:**



This displays the events of the RSO that the student chose.

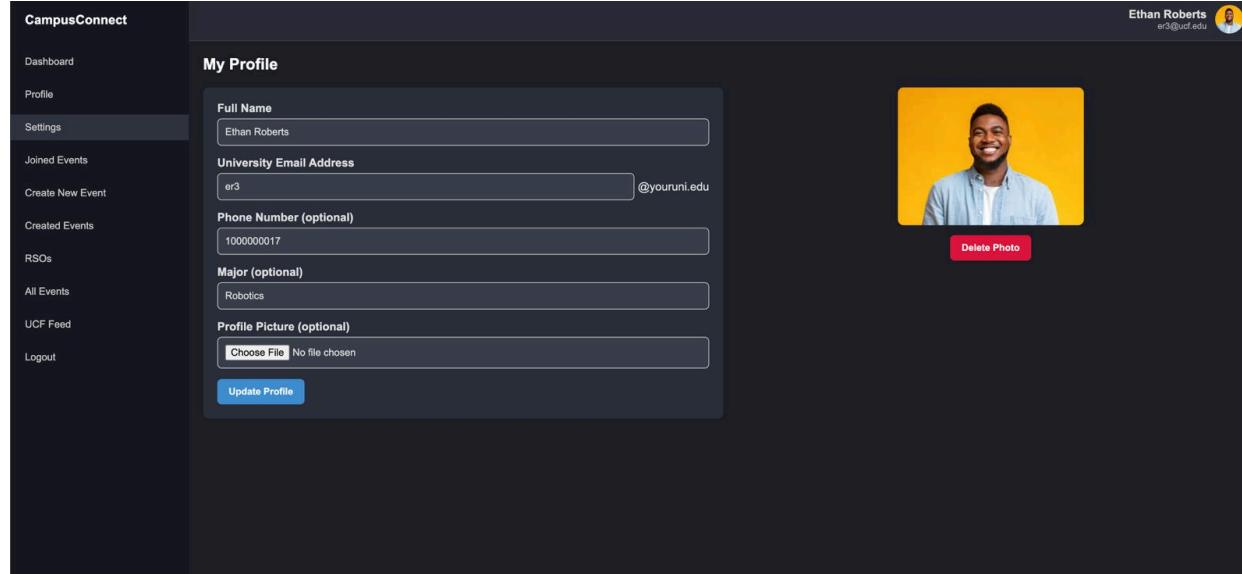
- **Admin Interface**
  - **Dashboard:** Manage RSOs and events



Here is the dashboard of a student who became an admin because the RSO reached five members and is approved by the super admin.

This page allows the admin to manage RSOs and events

- Admin profile:



This page displays the admin profile, including the photo, full name, university email, phone number, major, and allows him/ her to upload a photo.

- Admin create RSO event page:

CampusConnect

Dashboard  
Profile  
Settings  
Joined Events  
Create New Event  
Created Events  
RSOs  
Create RSO Event  
All Events  
UCF Feed  
Logout

### Create an RSO Event

Select Approved RSO You Created

-- Select RSO --

Event Name

Description

Event Date

dd/mm/yyyy

Start Time

-- : --

End Time

-- : --

Contact Email

Contact Phone

Location

Select a location

Event Image (optional)

No file chosen

in this page, the admin can put the name of the RSO event, date,s tart time, end time, contact email, contact phone, location, and upload a photo.

- **Admin settings page:**

CampusConnect

Dashboard  
Profile  
Settings  
Joined Events  
Create New Event  
Created Events  
RSOs  
All Events  
UCF Feed  
Logout

### Settings

Change Password

Current Password:

New Password:

Theme Preference

Select Theme:

This page allows the admin to change his/ her password, and to choose light or dark theme

- **Admin my joined events page:**

Ethan Roberts  
er3@ucf.edu

This page displays the admin joined events

- **Create public & private Event: Add events**

Ethan Roberts  
er3@ucf.edu

Here is the page that allows the admin to create events. We have the event name, description, type, date, start time, end time, contact email, contact phone, location, and we allow the admin to upload a photo too.

- **Admin events page:**

The screenshot shows the 'My Events' section of the CampusConnect admin interface. On the left is a sidebar with links: Dashboard, Profile, Settings, Joined Events, Create New Event, Created Events, RSOs, All Events, UCF Feed, and Logout. The main area is titled 'My Events' and lists four events with their details and edit/delete buttons.

Event Name	Date	Time	Actions
Open Mic Night	2025-05-06	13:00:00 - 15:00:00	Edit Delete
Student Town Hall	2025-05-06	13:00:00 - 15:00:00	Edit Delete
Movie & Discussion Club	2025-04-15	13:00:00 - 15:00:00	Edit Delete
Culture Capsule Mixer	2025-04-15	17:00:00 - 20:00:00	Edit Delete

This page displays the events the admin created and allows him/ her to edit or delete them.

- **Admin my RSOs page:**

The screenshot shows the 'My RSOs' section of the CampusConnect admin interface. On the left is a sidebar with the same set of links as the events page. The main area is titled 'My RSOs' and lists two RSOs with their names and status (Admin).

RSO Name	Status
Culture Capsule	(Admin)
CodeCrafters	

This page displays the RSOs the admin created, and allows to other RSOs and join them.

- **Specific RSO admin page:**

The screenshot shows the CampusConnect web application. On the left, a sidebar menu includes: Dashboard, Profile, Settings, Joined Events, Create New Event, Created Events, RSOs, All Events, UCF Feed, and Logout. The main content area displays the 'Culture Capsule' RSO profile. It features a large thumbnail image of a globe, a 'Change Photo' input field, and a 'Save' button. Below this, the RSO name 'Culture Capsule' is shown with a globe icon, followed by a 'New Name' input field and a 'Save' button. The status is listed as 'Active'. A description text reads: 'Description: Take a trip around the world without leaving campus. Culture Capsule celebrates global traditions through food festivals, language cafes, and cultural exchange nights—all led by the diverse student body.' There are buttons for 'New Description' and 'Save'. The admin information 'Admin: Ethan Roberts (er3@ucf.edu)' is displayed. At the bottom, there are buttons for 'View Members', 'Create Event for This RSO', and 'Delete RSO'. A section titled 'RSO Events' shows a card for 'Culture Capsule Mixer' with details: Date: Tue, Apr 15 2025 5:00 PM, Location: Global Studies Center, and a 'View Details' button.

This allows the admin to change the description of the RSO and change the photo, too. Moreover, the admin can create a new event for this RSO, view members, and delete the RSO if he/she want.

- **Admin event details:**

The screenshot shows the event details for 'Culture Capsule Mixer'. The top part features a thumbnail image of a mixer. Below it, the event title 'Culture Capsule Mixer' is displayed with a 'RSO EVENT' badge. The event details are: Date: 2025-04-15, Time: 17:00:00 - 20:00:00, Location: Global Studies Center. The description is: 'Celebrate global traditions with food, music, and games.' It was created by 'Ethan Roberts'. Buttons include 'Join Event' and 'Back to Events'. At the bottom, there is a 'Share this event:' section with social media icons for Facebook, Twitter, and LinkedIn.

**This displays for the admin :**

1. The event data
2. The event time
3. The event location

4. The event description
5. Who created the event
6. Share through X, facebook, and linkedin

- **Admin browse events page:**

The screenshot shows a dark-themed interface for managing events. On the left, a sidebar lists navigation options: Dashboard, Profile, Settings, Joined Events, Create New Event, Created Events, RSOs, All Events, UCF Feed, and Logout. The main area is titled "Browse Events" and displays five event cards in a grid:

- Earth Day Celebration** (PUBLIC EVENT): Date: 2025-03-31, Time: 13:00 - 15:00, Location: Sports Center. [View Details](#)
- Outdoor Movie Night** (PUBLIC EVENT): Date: 2025-04-04, Time: 13:00 - 15:00, Location: Campus Green. [View Details](#)
- Coding Practice Group** (PRIVATE EVENT): Date: 2025-04-06, Time: 13:00 - 15:00, Location: Innovation Hub. [View Details](#)
- CodeCrafters Hackathon** (RSO EVENT): Date: 2025-04-16, Time: 17:00 - 20:00, Location: Campus Green. [View Details](#)
- Late Night Yoga** (PRIVATE EVENT): Date: 2025-04-22, Time: 13:00 - 15:00, Location: Campus Green. [View Details](#)

Here is the page, where the admin can see all the events that he is or was allowed to join (the past/ upcoming events the student is allowed to join)

- **Admin UCF feeds:**

The screenshot shows a dark-themed interface for viewing UCF events. On the left, a sidebar lists navigation options: Dashboard, Profile, Settings, Joined Events, Create New Event, Created Events, RSOs, All Events, UCF Feed, and Logout. The main area is titled "UCF Upcoming Events" and displays a list of events:

- Music for All UCF – Orlando Blend Invitational**: Time: Wed, 09 Apr 2025 08:00:00 -0400, Location: Dr. Phillips Center for the Performing Arts: Steinmetz Hall: Steinmetz Hall. [View Event](#)
- UCF Celebrates the Arts 2025**: Time: Wed, 09 Apr 2025 09:00:00 -0400, Location: Dr. Phillips Center for the Performing Arts Downtown. [View Event](#)
- CDL Faculty Connect Event**: Time: Wed, 09 Apr 2025 09:30:00 -0400, Location: University Multimedia Center Classroom Building 1: Room 201. [View Event](#)
- Drop-in Drafting Lab**: Time: Wed, 09 Apr 2025 11:00:00 -0400, Location: Trevor Cobourn Hall 109: Trevor Cobourn Hall 109. [View Event](#)
- GPU Programming using OpenACC**: Time: Wed, 09 Apr 2025 11:00:00 -0400, Location: R1-101: Research 1, Room 101. [View Event](#)
- Big Red Bus - Donate Blood Today!**: Time: Wed, 09 Apr 2025 11:00:00 -0400, Location: UCF Memory Mall. [View Event](#)
- UCF SIAM Graduate Student Seminar**: Time: Wed, 09 Apr 2025 11:00:00 -0400, Location: MSB 318: 318. [View Event](#)

This page displays UCF real events for the admin.

- **Super Admin Interface**
  - **Super Admin Dashboard:**

Rachel Evans  
revans@uct.edu

CampusConnect

- [Dashboard](#)
- [Profile](#)
- [Settings](#)
- [Universities](#)
- [Edit Events](#)
- [Manage Users](#)
- [Logout](#)

### Pending Public Events



**Campus Job Fair**

Description: Meet potential employers and explore job opportunities right on campus.

Date/Time: Mar 31, 2025 (13:00 - 15:00)

Location: Engineering Building

Created By (User ID): 99

[Approve](#)



**Global Food Festival**

Description: Taste dishes from around the world presented by international student groups.

Date/Time: Apr 17, 2025 (13:00 - 15:00)

Location: Technology Center

Created By (User ID): 107

[Approve](#)



**Wellness Walks**

Description: Walk and Talks with Local Medical Pros in the Park!

Walk and Talks with Local Medical Pros in the Park!

Wellness Walk

Description: A relaxing group walk and mindfulness session around campus.

Date/Time: Apr 25, 2025 (13:00 - 15:00)

Location: Student Union

Created By (User ID): 97

[Approve](#)



**Open Mic Night**

Description: Showcase your talent or support your peers at our monthly open mic event.

Date/Time: May 6, 2025 (13:00 - 15:00)

Location: Sports Center

Created By (User ID): 92

[Approve](#)



**Student Town Hall**

Description: A chance to voice your opinions and hear updates from student leadership.

Date/Time: May 6, 2025 (13:00 - 15:00)

Location: Administration Block

Created By (User ID): 99

[Approve](#)

**RSOs Pending Approval**

CampusConnect

- [Dashboard](#)
- [Profile](#)
- [Settings](#)
- [Universities](#)
- [Edit Events](#)
- [Manage Users](#)
- [Logout](#)



**Science & Tech Expo**

Description: Explore the latest innovations by students in science and technology.

Date/Time: May 9, 2025 (13:00 - 15:00)

Location: Recreation Hall

Created By (User ID): 105

[Approve](#)



**Culture Capsule**

Description: Take a trip around the world without leaving campus! Culture Capsule organizes global tastings through food festivals, language cafes, and cultural exchange nights—all led by the diverse student body.

University ID: 3

Created By (User ID): 108

Status: active

[Approve](#)



**MindScape®**

Description: A safe haven for thinkers, dreamers, and overthinkers. MindScape offers weekly open-floor discussions, mindfulness sessions, and wellness events aimed at exploring creativity, joy, compassion.

University ID: 4

Created By (User ID): 103

Status: active

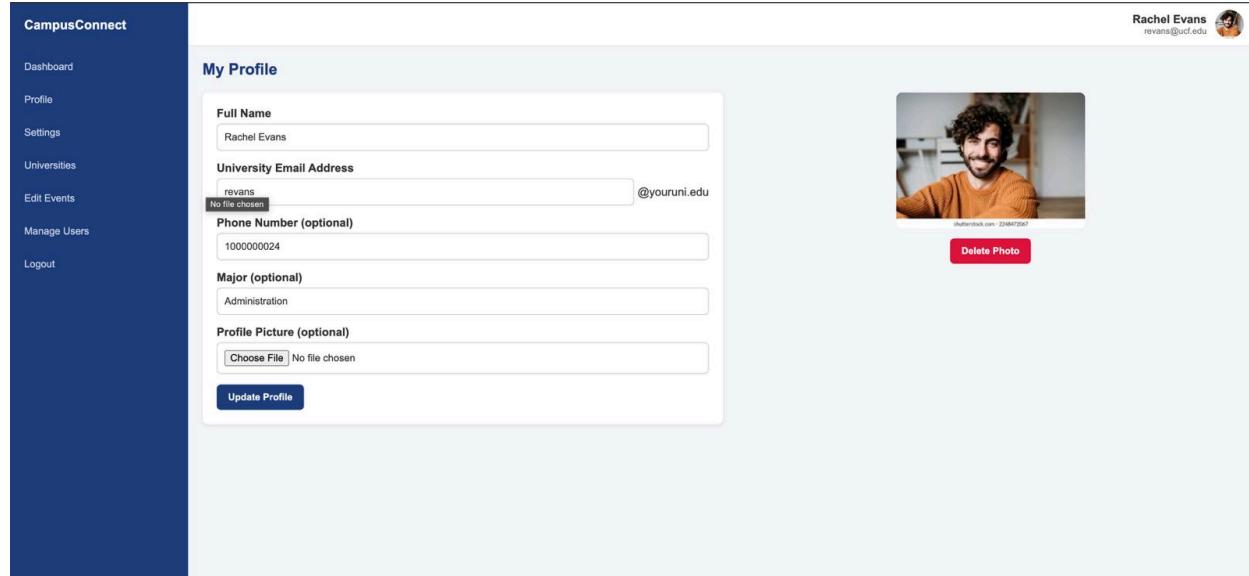
[Approve](#)



This page displays the public events that are waiting to be approved and the RSOs that are waiting for approval

- **Super admin profile:**

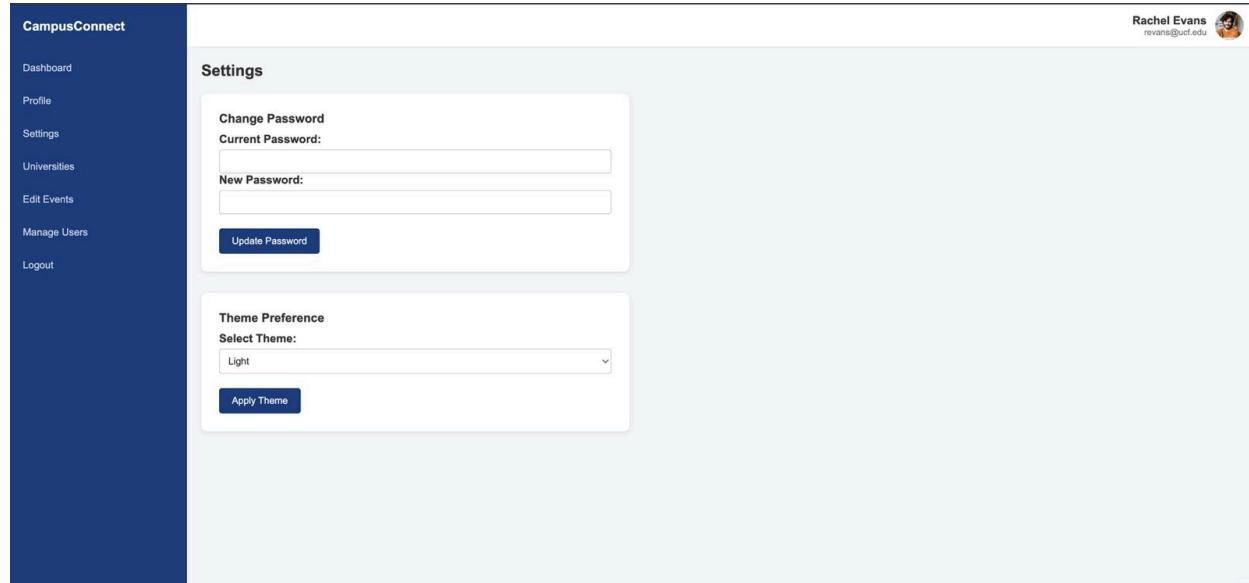
Rachel Evans  
revans@uct.edu 



This page displays the super admin profile, including the photo, full name, university email, phone number, major, and allows him/ her to upload a photo.

- **Super admin settings page:**

Rachel Evans  
revans@uct.edu 



This page allows the super admin to change his/ her password, and to choose light or drak theme

- **Super admin universities page:**

The screenshot shows the 'Universities' section of the CampusConnect application. On the left is a dark blue sidebar with navigation links: Dashboard, Profile, Settings, Universities (which is highlighted in blue), Edit Events, Manage Users, and Logout. The main content area has a white header 'Universities'. Below it is a search bar with fields for 'University Name', 'Description', and 'Email Domain', and a 'Location' input field with a 'Add University' button. A table lists three universities:

ID	Name	Description	Email	Location	Actions
1	American University in Cairo	Leading liberal arts university in Egypt	auegypt.edu	New Cairo, Egypt	<input type="text" value="American University in Cairo"/> <input type="text" value="Leading liberal arts university in Egypt"/> <input type="text" value="auegypt.edu"/> <input type="text" value="New Cairo, Egypt"/> <div style="display: flex; justify-content: space-around;"> <span>Save</span> <span>Delete</span> </div>
2	University of Helsinki	Finland's largest university	helsinki.fi	Helsinki, Finland	<input type="text" value="University of Helsinki"/> <input type="text" value="Finland's largest university"/> <input type="text" value="helsinki.fi"/> <input type="text" value="Helsinki, Finland"/> <div style="display: flex; justify-content: space-around;"> <span>Save</span> <span>Delete</span> </div>
					<input type="text" value="University of Central Florida"/>

This page allows the super admin to add, delete and edit universities(university names, location, description and email domain)

- **Super admin location page:**

The screenshot shows the 'Locations' section of the CampusConnect application. The sidebar is identical to the previous one. The main content area has a white header 'Locations'. Below it is a search bar with fields for 'Select University', 'Campus Name', and 'Address', and a 'Add Location' button. A table lists three university campuses:

ID	University	Name	Address	Actions
1	American University in Cairo	Central Library	101 University Road, Campus A	<input type="text" value="1"/> <input type="text" value="Central Library"/> <input type="text" value="101 University Road, Campus A"/> <div style="display: flex; justify-content: space-around;"> <span>Save</span> <span>Delete</span> </div>
2	American University in Cairo	Science Complex	102 University Road, Campus A	<input type="text" value="1"/> <input type="text" value="Science Complex"/> <input type="text" value="102 University Road, Campus A"/> <div style="display: flex; justify-content: space-around;"> <span>Save</span> <span>Delete</span> </div>
3	American University in Cairo	Main Auditorium	103 University Road, Campus A	<input type="text" value="1"/> <input type="text" value="Main Auditorium"/> <input type="text" value="103 University Road, Campus A"/> <div style="display: flex; justify-content: space-around;"> <span>Save</span> <span>Delete</span> </div>

**This page allows the super admin to add the university campus name and its location.**

- **Edit events page:**

Rachel Evans  
revans@ucf.edu

The screenshot shows the 'All Events' section of the CampusConnect application. On the left is a sidebar with navigation links: Dashboard, Profile, Settings, Universities, Edit Events, Manage Users, and Logout. The main area is titled 'All Events' and displays a grid of event cards. Each card includes the event name, date, time, type, a thumbnail image, and 'Edit' and 'Delete' buttons.

Event Name	Date	Time	Type	Thumbnail	Edit	Delete
Science & Tech Expo	2025-05-09	13:00 - 15:00	public		<a href="#">Edit</a>	<a href="#">Delete</a>
Open Mic Night	2025-05-06	13:00 - 15:00	public		<a href="#">Edit</a>	<a href="#">Delete</a>
Student Town Hall	2025-05-06	13:00 - 15:00	public		<a href="#">Edit</a>	<a href="#">Delete</a>
Personal Finance 101	2025-04-27	13:00 - 15:00	private		<a href="#">Edit</a>	<a href="#">Delete</a>
Wellness Walks	2025-04-25	13:00 - 15:00	public		<a href="#">Edit</a>	<a href="#">Delete</a>
Late Night Yoga	2025-04-22	13:00 - 15:00	private		<a href="#">Edit</a>	<a href="#">Delete</a>
Global Food Festival	2025-04-17	13:00 - 15:00	public		<a href="#">Edit</a>	<a href="#">Delete</a>
Resume Building Workshop	2025-04-17	13:00 - 15:00	private		<a href="#">Edit</a>	<a href="#">Delete</a>
Iron Pulse Bootcamp	2025-04-17	17:00 - 20:00	rso		<a href="#">Edit</a>	<a href="#">Delete</a>
CodeCrafters Hackathon	2025-04-16	17:00 - 20:00	rso		<a href="#">Edit</a>	<a href="#">Delete</a>

This page allows the super admin to edit all events, and can delete them too.

- **Manage Users page:**

**This page allows the super admin to edit the student, admin, and other super admin roles by promoting or demoting them. It also allows the super admin to delete students, admins, or even other super admins.**

### 3. ER Model & Constraints:

The conceptual design of the College Event Website follows a well-structured Entity-Relationship (ER) model. It captures the core entities, their relationships, and the constraints required by the system's business rules

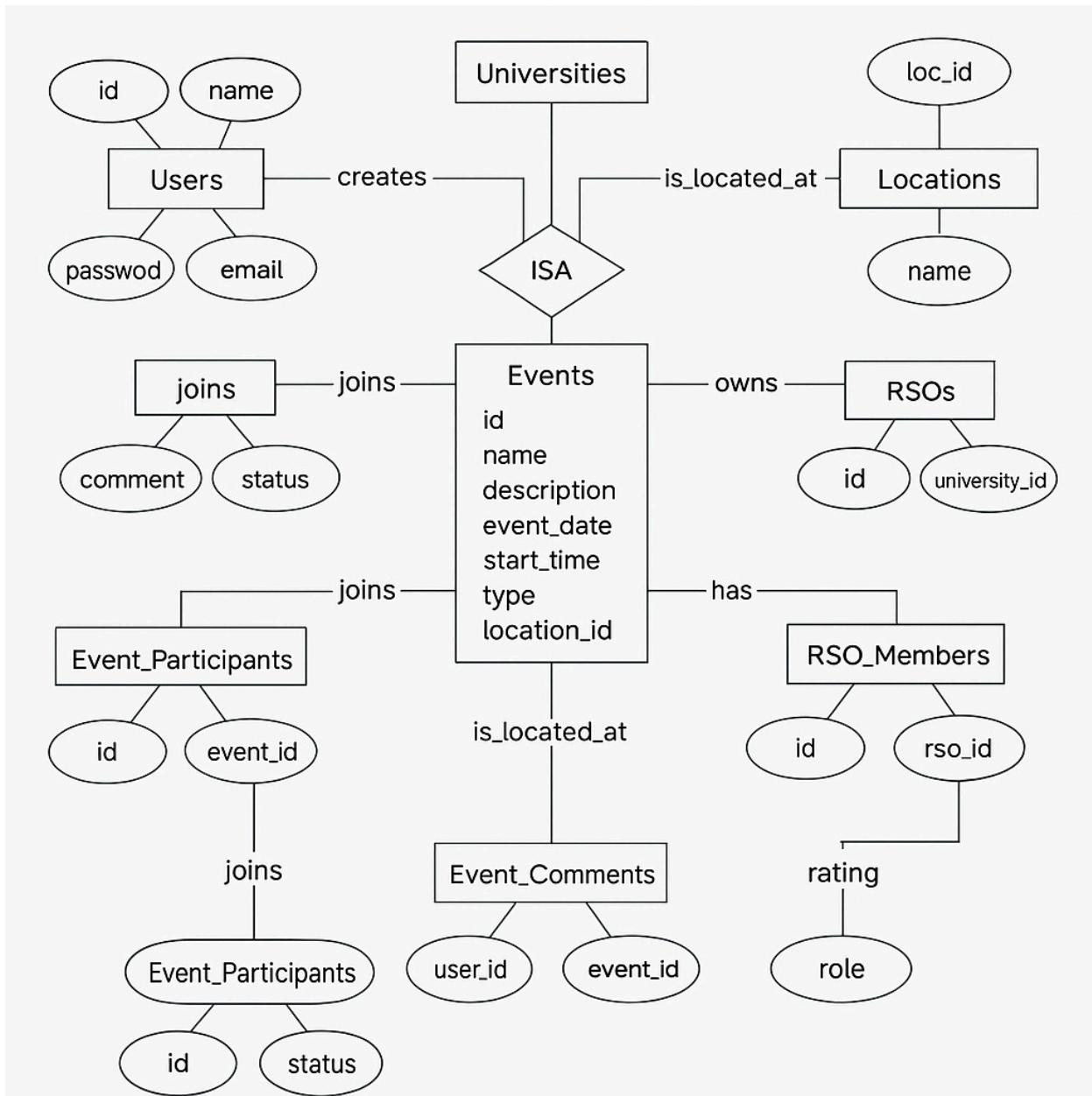
#### Main Entities:

- **User**
  - Attributes: UserID, FullName, Email, Password, Role, UniversityID, Avatar
  - Roles: Student, Admin, Super Admin
- **University**
  - Attributes: UniversityID, Name, Location, Description, StudentCount, Image
- **RSO**
  - Attributes: RSOID, Name, UniversityID, Status, AdminID

- A student becomes an RSO admin when the RSO is created
  - Status is set to **active** if it has 5+ members, otherwise **inactive**
- **Event**
  - Attributes: EventID, Name, Description, Category, Type, Date, Time, Location, RSOID, UniversityID, Approved, Image
  - Types: Public, Private, RSO
  - Associated with either a University (public/private) or RSO
  - Must be approved by super admin if public
- **Location**
  - Attributes: LocationID, Name, Latitude, Longitude
- **Comment**
  - Attributes: CommentID, UserID, EventID, Content, Timestamp
- **Rating**
  - Attributes: RatingID, UserID, EventID, Score (1–5)
- **RSO\_Members**
  - A many-to-many relationship between Users and RSOs
- **Joined\_Events**
  - A many-to-many relationship between Users and Events

## **Key Relationships and Constraints:**

- A student can join multiple RSOs and events.
- An Admin can create events under their RSO only, and can create public and private events.
- A Super Admin can create/manage universities and approve public events, can see all events, and can edit and delete events. Moreover, he can promote the student to be an admin.
- Each RSO must belong to one university and have exactly one admin.
- An RSO becomes active only when it has 5 or more members.
- Events cannot overlap in time and location (enforced through SQL triggers).
- Only RSO members can view RSO events.
- Only students at the same university can view private events.
- A user can comment and rate the same event. Moreover, he can edit and delete his comments.
- Image upload paths are stored as strings in the database.



**This is for the admin and students and the super admin approve and supervise everything.**

## 4. Relational Data Model in SQL

This section includes the main CREATE TABLE statements used to implement the database schema for the College Event Website. All tables use the InnoDB engine with proper foreign key constraints and data integrity enforcement.

## **Users table:**

```
CREATE TABLE `users` (
  `id` int NOT NULL,
  `name` varchar(100) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  `email` varchar(100) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  `password` varchar(255) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  `role` enum('student','admin','superadmin') CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL DEFAULT 'student',
  `university_id` int DEFAULT NULL,
  `avatar_filename` varchar(255) DEFAULT NULL,
  `created_at` timestamp NULL DEFAULT CURRENT_TIMESTAMP,
  `theme` varchar(10) DEFAULT 'light',
  `phone` varchar(20) DEFAULT NULL,
  `major` varchar(255) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

## **University Table:**

```
CREATE TABLE `universities` (
  `id` int NOT NULL,
  `name` varchar(100) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  `description` text CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci,
```

```

`email_domain` varchar(100) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci
NOT NULL,
`location` varchar(255) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci
DEFAULT NULL,
`created_at` timestamp NULL DEFAULT CURRENT_TIMESTAMP
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

```

## **RSO Table:**

```

CREATE TABLE `rsos` (
`id` int NOT NULL,
`name` varchar(100) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT
NULL,
`university_id` int NOT NULL,
`approved` tinyint(1) DEFAULT '0',
`created_by` int DEFAULT NULL,
`status` enum('pending','active') DEFAULT 'pending',
`photo` varchar(255) DEFAULT NULL,
`description` text
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

```

## **RSO\_Members Table:**

```

CREATE TABLE `rso_members` (
`id` int NOT NULL,
`rso_id` int NOT NULL,
`user_id` int NOT NULL,

```

```
    `role` enum('member','admin') DEFAULT 'member'  
 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

## Events Table:

```
CREATE TABLE `events` (  
    `id` int NOT NULL,  
    `name` varchar(100) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT  
    NULL,  
    `description` text CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,  
    `type` enum('public','private','rso') CHARACTER SET utf8mb4 COLLATE  
    utf8mb4_0900_ai_ci NOT NULL,  
    `event_date` date NOT NULL,  
    `start_time` time NOT NULL,  
    `end_time` time NOT NULL,  
    `location_id` int NOT NULL,  
    `contact_email` varchar(100) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci  
    DEFAULT NULL,  
    `contact_phone` varchar(20) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci  
    DEFAULT NULL,  
    `created_by` int NOT NULL,  
    `university_id` int DEFAULT NULL,  
    `rso_id` int DEFAULT NULL,  
    `approved` tinyint(1) DEFAULT '0',  
    `created_at` timestamp NULL DEFAULT CURRENT_TIMESTAMP,  
    `image_filename` varchar(255) DEFAULT NULL  
 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

### **Event\_comments Table:**

```
CREATE TABLE `event_comments` (
  `id` int NOT NULL,
  `user_id` int NOT NULL,
  `event_id` int NOT NULL,
  `content` text CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  `created_at` timestamp NULL DEFAULT CURRENT_TIMESTAMP
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

### **Event\_ratings Table:**

```
CREATE TABLE `event_ratings` (
  `id` int NOT NULL,
  `user_id` int NOT NULL,
  `event_id` int NOT NULL,
  `rating` int NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

### **event\_participants table:**

```
CREATE TABLE `event_participants` (
  `id` int NOT NULL,
  `user_id` int NOT NULL,
  `event_id` int NOT NULL,
  `joined_at` timestamp NULL DEFAULT CURRENT_TIMESTAMP,
```

```
`status` enum('joined','attended') CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci  
DEFAULT 'joined'  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

## Locations table:

```
CREATE TABLE `locations` (  
    `loc_id` int NOT NULL,  
    `university_id` int NOT NULL,  
    `name` varchar(100) NOT NULL,  
    `address` varchar(255) DEFAULT NULL,  
    `created_at` datetime DEFAULT CURRENT_TIMESTAMP  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

## Triggers:

```
DELIMITER $$
```

```
CREATE TRIGGER `mark_rso_pending_if_under_5` AFTER DELETE ON `rso_members`  
FOR EACH ROW BEGIN
```

```
    DECLARE member_count INT;
```

```
    SELECT COUNT(*) INTO member_count  
    FROM rso_members  
    WHERE rso_id = OLD.rso_id;
```

```
    IF member_count < 5 THEN
```

```
        UPDATE rsos
```

```
SET status = 'pending'

WHERE id = OLD.rso_id;

END IF;

END

$$

DELIMITER ;

DELIMITER $$

CREATE TRIGGER `mark_rso_ready_after_5_members` AFTER INSERT ON `rso_members`
FOR EACH ROW BEGIN

DECLARE member_count INT;

SELECT COUNT(*) INTO member_count
FROM rso_members
WHERE rso_id = NEW.rso_id;

IF member_count >= 5 THEN
    UPDATE rsos
    SET status = 'active'
    WHERE id = NEW.rso_id AND status = 'pending';
END IF;

END

$$

DELIMITER ;
```

```
DELIMITER $$
```

```
CREATE TRIGGER `auto_approve_rso_private` BEFORE INSERT ON `events` FOR EACH ROW BEGIN
```

```
    IF NEW.type <> 'public' THEN
```

```
        SET NEW.approved = 1;
```

```
    ELSE
```

```
        SET NEW.approved = 0;
```

```
    END IF;
```

```
END
```

```
$$
```

```
DELIMITER ;
```

```
DELIMITER $$
```

```
CREATE TRIGGER `prevent_overlapping_events_before_insert` BEFORE INSERT ON `events` FOR EACH ROW BEGIN
```

```
    DECLARE overlap_count INT DEFAULT 0;
```

```
    SELECT COUNT(*) INTO overlap_count
```

```
    FROM events
```

```
    WHERE location_id = NEW.location_id
```

```
    AND event_date = NEW.event_date
```

```
    AND (NEW.start_time < end_time AND NEW.end_time > start_time);
```

```
    IF overlap_count > 0 THEN
```

```
SIGNAL SQLSTATE '45000'

    SET MESSAGE_TEXT = 'Overlapping event exists at this location during the scheduled
time.';

    END IF;

END

$$

DELIMITER ;

DELIMITER $$

CREATE TRIGGER `prevent_overlapping_events_before_update` BEFORE UPDATE ON
`events` FOR EACH ROW BEGIN

    DECLARE overlap_count INT DEFAULT 0;

    SELECT COUNT(*) INTO overlap_count
    FROM events
    WHERE location_id = NEW.location_id
        AND event_date = NEW.event_date
        AND id <> NEW.id
        AND (NEW.start_time < end_time AND NEW.end_time > start_time);

    IF overlap_count > 0 THEN
        SIGNAL SQLSTATE '45000'

        SET MESSAGE_TEXT = 'Overlapping event exists at this location during the scheduled
time.';

        END IF;

```

END

\$\$

DELIMITER ;

### **Alerting parts:**

```
ALTER TABLE `events`  
    ADD PRIMARY KEY (`id`),  
    ADD KEY `location_id`(`location_id`),  
    ADD KEY `created_by`(`created_by`),  
    ADD KEY `university_id`(`university_id`),  
    ADD KEY `rso_id`(`rso_id`);
```

```
ALTER TABLE `event_comments`  
    ADD PRIMARY KEY (`id`),  
    ADD KEY `user_id`(`user_id`),  
    ADD KEY `event_id`(`event_id`);
```

```
ALTER TABLE `event_participants`  
    ADD PRIMARY KEY (`id`),  
    ADD UNIQUE KEY `unique_participation`(`user_id`,`event_id`),  
    ADD KEY `event_id`(`event_id`);
```

```
ALTER TABLE `event_ratings`  
ADD PRIMARY KEY (`id`),  
ADD UNIQUE KEY `unique_rating` (`user_id`,`event_id`),  
ADD KEY `event_id` (`event_id`);
```

```
ALTER TABLE `locations`  
ADD PRIMARY KEY (`loc_id`);
```

```
ALTER TABLE `rsos`  
ADD PRIMARY KEY (`id`),  
ADD UNIQUE KEY `name` (`name`),  
ADD KEY `university_id` (`university_id`),  
ADD KEY `created_by` (`created_by`);
```

```
ALTER TABLE `rso_members`  
ADD PRIMARY KEY (`id`),  
ADD KEY `rso_id` (`rso_id`),  
ADD KEY `user_id` (`user_id`);
```

```
ALTER TABLE `universities`  
ADD PRIMARY KEY (`id`);
```

```
ALTER TABLE `users`  
    ADD PRIMARY KEY (`id`),  
    ADD UNIQUE KEY `email` (`email`),  
    ADD KEY `university_id` (`university_id`);
```

```
ALTER TABLE `events`  
    MODIFY `id` int NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=15;
```

```
ALTER TABLE `event_comments`  
    MODIFY `id` int NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=13;
```

```
ALTER TABLE `event_participants`  
    MODIFY `id` int NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=10;
```

```
ALTER TABLE `event_ratings`  
    MODIFY `id` int NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=15;
```

```
ALTER TABLE `locations`  
    MODIFY `loc_id` int NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=16;
```

```
ALTER TABLE `rsos`  
MODIFY `id` int NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=21;
```

```
ALTER TABLE `rso_members`  
MODIFY `id` int NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=54;
```

```
ALTER TABLE `universities`  
MODIFY `id` int NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=5;
```

```
ALTER TABLE `users`  
MODIFY `id` int NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=54;
```

```
ALTER TABLE `events`  
ADD CONSTRAINT `events_ibfk_2` FOREIGN KEY (`created_by`) REFERENCES `users`(`id`) ON DELETE CASCADE,  
ADD CONSTRAINT `events_ibfk_3` FOREIGN KEY (`university_id`) REFERENCES `universities`(`id`) ON DELETE SET NULL,  
ADD CONSTRAINT `events_ibfk_4` FOREIGN KEY (`rso_id`) REFERENCES `rsos`(`id`) ON DELETE SET NULL;
```

```
ALTER TABLE `event_comments`  
ADD CONSTRAINT `event_comments_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES `users`(`id`) ON DELETE CASCADE,
```

```
ADD CONSTRAINT `event_comments_ibfk_2` FOREIGN KEY (`event_id`) REFERENCES `events` (`id`) ON DELETE CASCADE;
```

```
ALTER TABLE `event_participants`
```

```
    ADD CONSTRAINT `event_participants_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES `users` (`id`) ON DELETE CASCADE,
```

```
    ADD CONSTRAINT `event_participants_ibfk_2` FOREIGN KEY (`event_id`) REFERENCES `events` (`id`) ON DELETE CASCADE;
```

```
ALTER TABLE `event_ratings`
```

```
    ADD CONSTRAINT `event_ratings_ibfk_1` FOREIGN KEY (`user_id`) REFERENCES `users` (`id`) ON DELETE CASCADE,
```

```
    ADD CONSTRAINT `event_ratings_ibfk_2` FOREIGN KEY (`event_id`) REFERENCES `events` (`id`) ON DELETE CASCADE;
```

```
ALTER TABLE `rsos`
```

```
    ADD CONSTRAINT `rsos_ibfk_1` FOREIGN KEY (`university_id`) REFERENCES `universities` (`id`) ON DELETE CASCADE,
```

```
    ADD CONSTRAINT `rsos_ibfk_2` FOREIGN KEY (`created_by`) REFERENCES `users` (`id`) ON DELETE SET NULL;
```

```
ALTER TABLE `rso_members`
```

```
ADD CONSTRAINT `rso_members_ibfk_1` FOREIGN KEY (`rso_id`) REFERENCES `rsos`(`id`) ON DELETE CASCADE,
```

```
ADD CONSTRAINT `rso_members_ibfk_2` FOREIGN KEY (`user_id`) REFERENCES `users`(`id`) ON DELETE CASCADE;
```

```
ALTER TABLE `users`
```

```
ADD CONSTRAINT `users_ibfk_1` FOREIGN KEY (`university_id`) REFERENCES `universities`(`id`) ON DELETE SET NULL;
```

```
COMMIT;
```

### 3NF decomposition :

All tables in the College Event Website were designed following the principles of the Third Normal Form (3NF). Each non-key attribute is fully functionally dependent on the primary key and no transitive dependencies exist, eliminating redundancy and ensuring data integrity. Therefore, no further decomposition was necessary.

## 5. Sample data insertion:

```
INSERT INTO `events` (`id`, `name`, `description`, `type`, `event_date`, `start_time`, `end_time`, `location_id`, `contact_email`, `contact_phone`, `created_by`, `university_id`, `rso_id`, `approved`, `created_at`, `image_filename`) VALUES

(15, 'Earth Day Celebration', 'Join us to celebrate Earth Day with sustainability workshops and eco-friendly activities.', 'public', '2025-03-31', '13:00:00', '15:00:00', 4, 'info0@university.edu', '1234567890', 95, 1, NULL, 1, '2025-04-09 23:49:32', 'uploads/events/1744247650_Earth Day Celebration.jpeg'),

(16, 'Campus Job Fair', 'Meet potential employers and explore job opportunities right on campus.', 'public', '2025-03-31', '13:00:00', '15:00:00', 7, 'info1@university.edu', '1234567891', 100, 2, NULL, 0, '2025-04-09 23:49:32', 'uploads/events/1744247661_Campus Job Fair.jpeg'),
```

```
(17, 'Outdoor Movie Night', 'Enjoy a movie under the stars with friends and snacks provided.', 'public', '2025-04-04', '13:00:00', '15:00:00', 15, 'info2@university.edu', '1234567892', 112, 3, NULL, 1, '2025-04-09 23:49:32', 'uploads/events/1744247521_Outdoor Movie Night.jpeg'),  
  
(18, 'Open Mic Night', 'Showcase your talent or support your peers at our monthly open mic event.', 'public', '2025-05-06', '13:00:00', '15:00:00', 4, 'info3@university.edu', '1234567893', 108, 1, NULL, 0, '2025-04-09 23:49:32', 'uploads/events/1744247384_Open Mic Night.jpeg'),  
  
(19, 'Science & Tech Expo', 'Explore the latest innovations by students in science and technology.', 'public', '2025-05-09', '13:00:00', '15:00:00', 9, 'info4@university.edu', '1234567894', 95, 2, NULL, 0, '2025-04-09 23:49:32', 'uploads/events/1744247374_Science & Tech Expo.jpeg'),  
  
(20, 'Global Food Festival', 'Taste dishes from around the world presented by international student groups.', 'public', '2025-04-17', '13:00:00', '15:00:00', 12, 'info5@university.edu', '1234567895', 100, 3, NULL, 0, '2025-04-09 23:49:32', 'uploads/events/1744247472_Global Food Festival.png'),  
  
(21, 'Wellness Walk', 'A relaxing group walk and mindfulness session around campus.', 'public', '2025-04-25', '13:00:00', '15:00:00', 5, 'info6@university.edu', '1234567896', 111, 1, NULL, 0, '2025-04-09 23:49:32', 'uploads/events/1744247429_Wellness Walk.png'),  
  
(22, 'Student Town Hall', 'A chance to voice your opinions and hear updates from student leadership.', 'public', '2025-05-06', '13:00:00', '15:00:00', 10, 'info7@university.edu', '1234567897', 108, 2, NULL, 0, '2025-04-09 23:49:32', 'uploads/events/1744247403_Student Town Hall.jpeg'),  
  
(23, 'Game Night @ Dorm A', 'Chill night with board games, snacks, and fun in Dorm A lounge.', 'private', '2025-04-02', '13:00:00', '15:00:00', 3, 'info0@university.edu', '1234567890', 95, 1, NULL, 1, '2025-04-09 23:49:32', 'uploads/events/1744247638_Game Night @ Dorm A.jpeg'),  
  
(24, 'Study Jam', 'Group study session with snacks and tutoring help.', 'private', '2025-04-04', '13:00:00', '15:00:00', 10, 'info1@university.edu', '1234567891', 100, 2, NULL, 1, '2025-04-09 23:49:32', 'uploads/events/1744247626_Study Jam.png'),
```

```
(25, 'Coding Practice Group', 'Prepare for coding interviews together with peers.', 'private', '2025-04-06', '13:00:00', '15:00:00', 11, 'info2@university.edu', '1234567892', 111, 3, NULL, 1, '2025-04-09 23:49:32', 'uploads/events/1744247558_Coding Practice Group.jpeg'),  
  
(26, 'Resume Building Workshop', 'Private session with the career center to improve resumes.', 'private', '2025-04-17', '13:00:00', '15:00:00', 4, 'info3@university.edu', '1234567893', 95, 1, NULL, 1, '2025-04-09 23:49:32', 'uploads/events/1744247481_Resume Building Workshop.jpeg'),  
  
(27, 'Movie & Discussion Club', 'Watch a film and discuss its themes with club members.', 'private', '2025-04-15', '13:00:00', '15:00:00', 10, 'info4@university.edu', '1234567894', 108, 2, NULL, 1, '2025-04-09 23:49:32', 'uploads/events/1744247538_Movie & Discussion Club.jpeg'),  
  
(28, 'Late Night Yoga', 'Private yoga session for relaxation and stress relief.', 'private', '2025-04-22', '13:00:00', '15:00:00', 15, 'info5@university.edu', '1234567895', 111, 3, NULL, 1, '2025-04-09 23:49:32', 'uploads/events/1744247447_Late Night Yoga.jpeg'),  
  
(29, 'Personal Finance 101', 'Learn budgeting and managing your money as a student.', 'private', '2025-04-27', '13:00:00', '15:00:00', 5, 'info6@university.edu', '1234567896', 95, 1, NULL, 1, '2025-04-09 23:49:32', 'uploads/events/1744247416_Personal Finance 101.jpeg'),  
  
(30, 'Frame by Frame Screening', 'A curated indie film screening followed by discussion.', 'rso', '2025-04-14', '17:00:00', '20:00:00', 5, 'rso21@uni.edu', '998877660', 95, 1, 21, 1, '2025-04-09 23:49:32', 'uploads/events/1744247608_Frame by Frame Screening.jpeg'),  
  
(31, 'Culture Capsule Mixer', 'Celebrate global traditions with food, music, and games.', 'rso', '2025-04-15', '17:00:00', '20:00:00', 14, 'rso23@uni.edu', '998877661', 108, 3, 23, 1, '2025-04-09 23:49:32', 'uploads/events/1744252633_Culture Capsule Mixer.jpeg'),  
  
(32, 'CodeCrafters Hackathon', '24-hour hackathon to build something awesome together.', 'rso', '2025-04-16', '17:00:00', '20:00:00', 15, 'rso24@uni.edu', '998877662', 111, 3, 24, 1, '2025-04-09 23:49:32', 'uploads/events/1744252621_CodeCrafters Hackathon.jpeg'),  
  
(33, 'Iron Pulse Bootcamp', 'Full-body fitness session hosted by Iron Pulse trainers.', 'rso', '2025-04-17', '17:00:00', '20:00:00', 6,
```

```
'rso26@uni.edu', '998877663', 100, 2, 26, 1, '2025-04-09 23:49:32',
'uploads/events/1744252612_Iron Pulse Bootcamp .jpeg');
```

```
INSERT INTO `event_comments` (`id`, `user_id`, `event_id`, `content`,
`created_at`) VALUES

(25, 106, 20, 'Loved the variety of food at the festival!', '2025-04-10
03:08:37') ,

(26, 102, 22, 'The town hall was informative and engaging.', '2025-04-10
03:08:37') ,

(27, 103, 18, 'Movie night was chill, great vibes!', '2025-04-10
03:08:37') ,

(28, 95, 30, 'The film screening was thought-provoking.', '2025-04-10
03:08:37') ,

(29, 93, 29, 'Really helpful session on personal finance.', '2025-04-10
03:08:37') ,

(30, 111, 32, 'Awesome hackathon experience! Learned a lot.', '2025-04-10
03:08:37') ,

(31, 92, 26, 'The resume tips were very practical.', '2025-04-10
03:08:37') ,

(32, 97, 25, 'Productive study session with new friends.', '2025-04-10
03:08:37') ,

(33, 100, 33, 'Felt the burn! Amazing bootcamp.', '2025-04-10 03:08:37') ,

(34, 94, 23, 'Great discussion after the screening!', '2025-04-10
03:08:37');

INSERT INTO `event_participants` (`id`, `user_id`, `event_id`,
`joined_at`, `status`) VALUES

(32, 108, 17, '2025-04-10 03:03:21', 'attended'),
```

```
(84, 106, 20, '2025-04-10 03:07:40', 'attended'),  
(85, 102, 22, '2025-04-10 03:07:40', 'attended'),  
(86, 103, 18, '2025-04-10 03:07:40', 'attended'),  
(87, 95, 30, '2025-04-10 03:07:40', 'attended'),  
(88, 93, 29, '2025-04-10 03:07:40', 'attended'),  
(89, 111, 32, '2025-04-10 03:07:40', 'attended'),  
(90, 92, 26, '2025-04-10 03:07:40', 'attended'),  
(91, 97, 25, '2025-04-10 03:07:40', 'attended'),  
(92, 100, 33, '2025-04-10 03:07:40', 'attended'),  
(93, 94, 23, '2025-04-10 03:07:40', 'attended');
```

```
INSERT INTO `event_ratings` (`id`, `user_id`, `event_id`, `rating`) VALUES  
(25, 106, 20, 5),  
(26, 102, 22, 4),  
(27, 103, 18, 5),  
(28, 95, 30, 4),  
(29, 93, 29, 5),  
(30, 111, 32, 5),  
(31, 92, 26, 4),  
(32, 97, 25, 4),  
(33, 100, 33, 5),  
(34, 94, 23, 4);
```

```
INSERT INTO `locations` (`loc_id`, `university_id`, `name`, `address`,  
`created_at`) VALUES  
  
(1, 1, 'Central Library', '101 University Road, Campus A', '2025-04-09  
01:40:57'),  
  
(2, 1, 'Science Complex', '102 University Road, Campus A', '2025-04-09  
01:40:57'),  
  
(3, 1, 'Main Auditorium', '103 University Road, Campus A', '2025-04-09  
01:40:57'),  
  
(4, 1, 'Sports Center', '104 University Road, Campus A', '2025-04-09  
01:40:57'),  
  
(5, 1, 'Student Union', '105 University Road, Campus A', '2025-04-09  
01:40:57'),  
  
(6, 2, 'Arts Center', '201 Campus Avenue, Campus B', '2025-04-09  
01:40:57'),  
  
(7, 2, 'Engineering Building', '202 Campus Avenue, Campus B', '2025-04-09  
01:40:57'),  
  
(8, 2, 'Main Library', '203 Campus Avenue, Campus B', '2025-04-09  
01:40:57'),  
  
(9, 2, 'Recreation Hall', '204 Campus Avenue, Campus B', '2025-04-09  
01:40:57'),  
  
(10, 2, 'Administration Block', '205 Campus Avenue, Campus B', '2025-04-09  
01:40:57'),  
  
(11, 3, 'Innovation Hub', '301 College Street, Campus C', '2025-04-09  
01:40:57'),  
  
(12, 3, 'Technology Center', '302 College Street, Campus C', '2025-04-09  
01:40:57'),  
  
(13, 3, 'Business School', '303 College Street, Campus C', '2025-04-09  
01:40:57'),
```

```
(14, 3, 'Global Studies Center', '304 College Street, Campus C',  
'2025-04-09 01:40:57'),  
  
(15, 3, 'Campus Green', '305 College Street, Campus C', '2025-04-09  
01:40:57');
```

```
INSERT INTO `rsos` (`id`, `name`, `university_id`, `approved`,  
 `created_by`, `status`, `photo`, `description`) VALUES  
  
(21, '🎬 Frame by Frame', 1, 1, 95, 'active', 'rso_1744238849_7809.jpeg',  
 'Lights, camera, campus! Frame by Frame is for film lovers, creators, and  
 analysts who want to explore cinema through screenings, discussions, and  
 student-made short films.'),  
  
(22, '🧪 SciQuest', 1, 0, 96, 'pending', 'rso_1744238979_3352.jpeg',  
 'Where curiosity meets experimentation. SciQuest brings science to life  
 through interactive demos, fun experiments, and collaborations across  
 disciplines to foster a love of discovery.'),  
  
(23, '🌍 Culture Capsule', 3, 1, 108, 'active',  
 '1744247306_rso_1744239122_3801.jpeg', 'Take a trip around the world  
 without leaving campus. Culture Capsule celebrates global traditions  
 through food festivals, language cafes, and cultural exchange nights—all  
 led by the diverse student body.'),  
  
(24, '💻 CodeCrafters', 3, 1, 111, 'active', 'rso_1744239234_8732.jpeg',  
 'For the students who speak Python better than English. CodeCrafters is a  
 tech-driven RSO that runs coding workshops, hackathons, and peer-led  
 project sessions to turn ideas into real-world software.'),  
  
(26, '🏋️ Iron Pulse', 2, 1, 100, 'active', 'rso_1744240049_7021.jpeg',  
 'Iron Pulse is your go-to fitness family on campus—whether you're lifting  
 your first dumbbell or chasing personal records. We host group workouts,  
 strength challenges, and wellness talks to fuel both body and mind.'),  
  
(27, '🧠 MindScape', 2, 0, 103, 'active', 'rso_1744240232_3141.jpeg', 'A  
 safe haven for thinkers, dreamers, and overthinkers alike. MindScape hosts  
 weekly open-floor discussions, mindfulness sessions, and wellness events  
 aimed at exploring mental health through community, creativity, and  
 compassion.');
```

```
INSERT INTO `rso_members` (`id`, `rso_id`, `user_id`, `role`) VALUES  
  
(54, 21, 95, 'admin'),  
  
(55, 22, 96, 'member'),  
  
(56, 23, 108, 'admin'),  
  
(57, 24, 111, 'admin'),  
  
(59, 26, 100, 'admin'),  
  
(60, 27, 103, 'member'),  
  
(62, 23, 107, 'member'),  
  
(63, 23, 109, 'member'),  
  
(64, 23, 110, 'member'),  
  
(65, 24, 106, 'member'),  
  
(66, 24, 107, 'member'),  
  
(67, 24, 108, 'member'),  
  
(68, 24, 112, 'member'),  
  
(69, 26, 101, 'member'),  
  
(70, 26, 102, 'member'),  
  
(71, 26, 103, 'member'),  
  
(72, 26, 104, 'member'),  
  
(73, 27, 100, 'member'),  
  
(74, 27, 101, 'member'),  
  
(75, 27, 102, 'member'),  
  
(76, 27, 105, 'member'),
```

```
(77, 21, 92, 'member'),  
  
(78, 21, 93, 'member'),  
  
(79, 21, 94, 'member'),  
  
(80, 21, 96, 'member'),  
  
(81, 22, 92, 'member'),  
  
(82, 22, 97, 'member'),  
  
(84, 23, 106, 'member');
```

```
INSERT INTO `universities` (`id`, `name`, `description`, `email_domain`,  
`location`, `created_at`) VALUES  
  
(1, 'American University in Cairo', 'Leading liberal arts university in  
Egypt', 'aucegypt.edu', 'New Cairo, Egypt', '2025-03-29 19:41:18'),  
  
(2, 'University of Helsinki', 'Finland's largest university',  
'helsinki.fi', 'Helsinki, Finland', '2025-03-29 19:41:18'),  
  
(3, 'University of Central Florida', 'Public research university in  
Florida', 'ucf.edu', 'Orlando, Florida', '2025-03-29 19:41:18');
```

```
INSERT INTO `users` (`id`, `name`, `email`, `password`, `role`,  
`university_id`, `avatar_filename`, `created_at`, `theme`, `phone`,  
`major`) VALUES  
  
(92, 'Youssef Tarek', 'yt1@aucegypt.edu', 'hashedpass31', 'student', 1,  
'avatars/1744236347_Youssef Tarek.jpeg', '2025-04-09 21:28:18', 'dark',  
'1000000001', 'Software Engineering'),  
  
(93, 'Mariam Adel', 'ma2@aucegypt.edu', 'hashedpass32', 'student', 1,  
'avatars/1744236411_Mariam Adel.jpeg', '2025-04-09 21:28:18', 'light',  
'1000000002', 'Business');
```

```
(94, 'Ahmed Nabil', 'an3@aucegypt.edu', 'hashedpass33', 'student', 1,
'avatars/1744236470_Ahmed Nabil.jpeg', '2025-04-09 21:28:18', 'dark',
'1000000003', 'Computer Engineering'),

(95, 'Laila Gamal', 'lg4@aucegypt.edu', 'hashedpass34', 'admin', 1,
'avatars/1744236507_Laila Gamil.jpeg', '2025-04-09 21:28:18', 'light',
'1000000004', 'Architecture'),

(96, 'Omar Hossam', 'oh5@aucegypt.edu', 'hashedpass35', 'student', 1,
'avatars/1744236546_Omar Hossam.jpeg', '2025-04-09 21:28:18', 'dark',
'1000000005', 'Electrical Engineering'),

(97, 'Nour ElSherif', 'ne6@aucegypt.edu', 'hashedpass36', 'student', 1,
'avatars/1744236593_Nour ElSherif.jpeg', '2025-04-09 21:28:18', 'light',
'1000000006', 'Psychology'),

(98, 'Salma Ehab', 'se7@aucegypt.edu', 'hashedpass37', 'student', 1,
'avatars/1744236658_Salma Ehab.jpeg', '2025-04-09 21:28:18', 'dark',
'1000000007', 'Finance'),

(99, 'Anna Virtanen', 'anna1@helsinki.fi', 'hashedpass21', 'student', 2,
'avatars/1744236684_Anna Virtanen.jpeg', '2025-04-09 21:28:30', 'light',
'1000000008', 'Data Science'),

(100, 'Mikko Laine', 'mikko2@helsinki.fi', 'hashedpass22', 'admin', 2,
'avatars/1744236717_Mikko Laine.jpeg', '2025-04-09 21:28:30', 'dark',
'1000000009', 'Artificial Intelligence'),

(101, 'Laura Niemi', 'laura3@helsinki.fi', 'hashedpass23', 'student', 2,
'avatars/1744236750_Laura Niemi.jpeg', '2025-04-09 21:28:30', 'light',
'1000000010', 'Environmental Science'),

(102, 'Juho Korhonen', 'juho4@helsinki.fi', 'hashedpass24', 'student', 2,
'avatars/1744236790_Juho Korhonen.jpeg', '2025-04-09 21:28:30', 'dark',
'1000000011', 'Physics'),

(103, 'Emilia Heikkinen', 'emilia5@helsinki.fi', 'hashedpass25',
'student', 2, 'avatars/1744236822_Emilia Heikkinen.jpeg', '2025-04-09
21:28:30', 'light', '1000000012', 'Mathematics'),
```

```
(104, 'Aleksi Mäkinen', 'aleksi6@helsinki.fi', 'hashedpass26', 'student',  
2, 'avatars/1744236893_Aleksi Mäkinen.jpeg', '2025-04-09 21:28:30',  
'dark', '1000000013', 'Mechanical Engineering'),  
  
(105, 'Sofia Salonen', 'sofia7@helsinki.fi', 'hashedpass27', 'student', 2,  
'avatars/1744236968_Sofia Salonen.jpeg', '2025-04-09 21:28:30', 'light',  
'1000000014', 'Economics'),  
  
(106, 'James Carter', 'jc1@ucf.edu', 'hashedpass41', 'student', 3,  
'avatars/1744237030_James Carter.jpeg', '2025-04-09 21:28:41', 'light',  
'1000000015', 'Cybersecurity'),  
  
(107, 'Chloe Martinez', 'cm2@ucf.edu', 'hashedpass42', 'student', 3,  
'avatars/1744237068_Chloe Martinez.jpeg', '2025-04-09 21:28:41', 'dark',  
'1000000016', 'Marketing'),  
  
(108, 'Ethan Roberts', 'er3@ucf.edu', 'hashedpass43', 'admin', 3,  
'avatars/1744237091_Ethan Roberts.jpeg', '2025-04-09 21:28:41', 'dark',  
'1000000017', 'Robotics'),  
  
(109, 'Isabella Brown', 'ib4@ucf.edu', 'hashedpass44', 'student', 3,  
'avatars/1744237128_Isabella Brown.jpeg', '2025-04-09 21:28:41', 'dark',  
'1000000018', 'Graphic Design'),  
  
(110, 'Logan White', 'lw5@ucf.edu', 'hashedpass45', 'student', 3,  
'avatars/1744237159_Logan White.jpeg', '2025-04-09 21:28:41', 'light',  
'1000000019', 'Statistics'),  
  
(111, 'Grace Thompson', 'gt6@ucf.edu', 'hashedpass46', 'admin', 3,  
'avatars/1744237182_Grace Thompson.jpeg', '2025-04-09 21:28:41', 'dark',  
'1000000020', 'Biomedical Engineering'),  
  
(112, 'Daniel Lee', 'dl7@ucf.edu', 'hashedpass47', 'student', 3,  
'avatars/1744237206_Daniel Lee.jpeg', '2025-04-09 21:28:41', 'light',  
'1000000021', 'Philosophy'),  
  
(113, 'Elina Saarinen', 'elina.sa@helsinki.fi', 'hashedsuper1',  
'superadmin', 2, 'avatars/1744237258_Elina Saarinen.jpeg', '2025-04-09  
21:29:23', 'light', '1000000022', 'Administration'),
```

```
(114, 'Omar Fathy', 'ofathy@aucegypt.edu', 'hashedsuper2', 'superadmin',  
1, 'avatars/1744237292_Omar Fathy.jpeg', '2025-04-09 21:29:23', 'dark',  
'1000000023', 'Administration'),  
  
(115, 'Rachel Evans', 'revans@ucf.edu', 'hashedsuper3', 'superadmin', 3,  
'avatars/1744237321_Rachel Evans.jpeg', '2025-04-09 21:29:23', 'light',  
'1000000024', 'Administration');
```





Server: localhost:8889 > Database: AdMK\_Database > Table: locations

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 14 (15 total, Query took 0.0001 seconds.)

```
SELECT * FROM `locations`
```

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	loc_id	university_id	name	address	created_at
<input type="checkbox"/>	1	1	Central Library	101 University Road, Campus A	2025-04-09 01:40:57
<input type="checkbox"/>	2	1	Science Complex	102 University Road, Campus A	2025-04-09 01:40:57
<input type="checkbox"/>	3	1	Main Auditorium	103 University Road, Campus A	2025-04-09 01:40:57
<input type="checkbox"/>	4	1	Sports Center	104 University Road, Campus A	2025-04-09 01:40:57
<input type="checkbox"/>	5	1	Student Union	105 University Road, Campus A	2025-04-09 01:40:57
<input type="checkbox"/>	6	2	Arts Center	201 Campus Avenue, Campus B	2025-04-09 01:40:57
<input type="checkbox"/>	7	2	Engineering Building	202 Campus Avenue, Campus B	2025-04-09 01:40:57
<input type="checkbox"/>	8	2	Main Library	203 Campus Avenue, Campus B	2025-04-09 01:40:57
<input type="checkbox"/>	9	2	Recreation Hall	204 Campus Avenue, Campus B	2025-04-09 01:40:57
<input type="checkbox"/>	10	2	Administration Block	205 Campus Avenue, Campus B	2025-04-09 01:40:57
<input type="checkbox"/>	11	3	Innovation Hub	301 College Street, Campus C	2025-04-09 01:40:57
<input type="checkbox"/>	12	3	Technology Center	302 College Street, Campus C	2025-04-09 01:40:57
<input type="checkbox"/>	13	3	Business School	303 College Street, Campus C	2025-04-09 01:40:57
<input type="checkbox"/>	14	3	Global Studies Center	304 College Street, Campus C	2025-04-09 01:40:57
<input type="checkbox"/>	15	3	Campus Green	305 College Street, Campus C	2025-04-09 01:40:57

Check all With selected:

Server: localhost:8889 » Database: AdMK\_Database » Table: event\_ratings

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 9 (10 total, Query took 0.0002 seconds.)

```
SELECT * FROM `event_ratings`
```

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	T									
<input type="checkbox"/>		Edit		Copy		Delete	25	106	20	5
<input type="checkbox"/>		Edit		Copy		Delete	26	102	22	4
<input type="checkbox"/>		Edit		Copy		Delete	27	103	18	5
<input type="checkbox"/>		Edit		Copy		Delete	28	95	30	4
<input type="checkbox"/>		Edit		Copy		Delete	29	93	29	5
<input type="checkbox"/>		Edit		Copy		Delete	30	111	32	5
<input type="checkbox"/>		Edit		Copy		Delete	31	92	26	4
<input type="checkbox"/>		Edit		Copy		Delete	32	97	25	4
<input type="checkbox"/>		Edit		Copy		Delete	33	100	33	5
<input type="checkbox"/>		Edit		Copy		Delete	34	94	23	4

Check all With selected: Edit Copy Delete Export



Server: localhost:8889 > Database: AdMK\_Database > Table: events

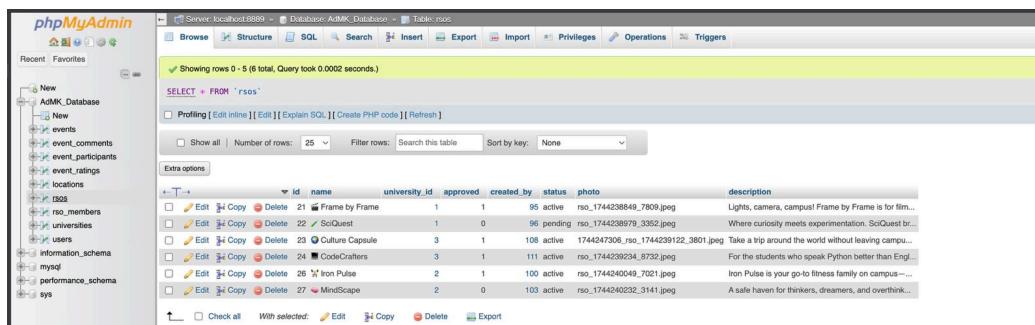
	<a href="#">Browse</a>	<a href="#">Structure</a>	<a href="#">SQL</a>	<a href="#">Search</a>	<a href="#">Insert</a>	<a href="#">Export</a>	<a href="#">Import</a>	<a href="#">Privileges</a>	<a href="#">Operations</a>	<a href="#">Triggers</a>									
	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	<a href="#">id</a>	<a href="#">name</a>	<a href="#">description</a>	<a href="#">type</a>	<a href="#">event_date</a>	<a href="#">start_time</a>	<a href="#">end_time</a>	<a href="#">location_id</a>	<a href="#">contact_email</a>	<a href="#">contact_phone</a>	<a href="#">created_by</a>	<a href="#">university_id</a>	<a href="#">rso_id</a>	<a href="#">approved</a>	<a href="#">created_at</a>	<a href="#">image</a>
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	15	Earth Day Celebration	Join us to celebrate Earth Day with sustainability...	public	2025-03-31	13:00:00	15:00:00	4	info0@university.edu	1234567890	95	1	NULL	1	2025-04-09 19:49:32	uploads/Celebration.jpg
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	16	Campus Job Fair	Meet potential employers and explore job opportuni...	public	2025-03-31	13:00:00	15:00:00	7	info1@university.edu	1234567891	100	2	NULL	0	2025-04-09 19:49:32	uploads/Fair.jpg
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	17	Outdoor Movie Night	Enjoy a movie under the stars with friends and sna...	public	2025-04-04	13:00:00	15:00:00	15	info2@university.edu	1234567892	112	3	NULL	1	2025-04-09 19:49:32	uploads/Movie1.jpg
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	18	Open Mic Night	Showcase your talent or support your peers at our ...	public	2025-05-06	13:00:00	15:00:00	4	info3@university.edu	1234567893	108	1	NULL	0	2025-04-09 19:49:32	uploads/Night.jpg
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	19	Science & Tech Expo	Explore the latest innovations by students in scie...	public	2025-05-09	13:00:00	15:00:00	9	info4@university.edu	1234567894	95	2	NULL	0	2025-04-09 19:49:32	uploads/TechExpo.jpg
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	20	Global Food Festival	Taste dishes from around the world presented by in...	public	2025-04-17	13:00:00	15:00:00	12	info5@university.edu	1234567895	100	3	NULL	1	2025-04-09 19:49:32	uploads/Festival.jpg
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	21	Wellness Walk	A relaxing group walk and mindfulness session arou...	public	2025-04-25	13:00:00	15:00:00	5	info6@university.edu	1234567896	111	1	NULL	0	2025-04-09 19:49:32	uploads/Walk.jpg
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	22	Student Town Hall	A chance to voice your opinions and hear updates f...	public	2025-05-06	13:00:00	15:00:00	10	info7@university.edu	1234567897	108	2	NULL	0	2025-04-09 19:49:32	uploads/TownHall.jpg
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	23	Game Night @ Dorm A	Chill night with board games, snacks, and fun in D...	private	2025-04-02	13:00:00	15:00:00	3	info0@university.edu	1234567890	95	1	NULL	1	2025-04-09 19:49:32	uploads/@DormA.jpg
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	24	Study Jam	Group study session with	private	2025-04-04	13:00:00	15:00:00	10	info1@university.edu	1234567891	100	0	NULL	1	2025-04-09 19:49:32	uploads/StudyJam.jpg



## 6. SQL query examples and results

SQL statement to insert a new RSO (part of the processing of the ‘Create RSO’ form). Show results:

```
INSERT INTO `rsos` (`id`, `name`, `university_id`, `approved`,  
`created_by`, `status`, `photo`, `description`) VALUES  
  
(21, 'Frame by Frame', 1, 1, 95, 'active',  
'rso_1744238849_7809.jpeg', 'Lights, camera, campus! Frame by  
Frame is for film lovers, creators, and analysts who want to  
explore cinema through screenings, discussions, and  
student-made short films.');
```



The screenshot shows the phpMyAdmin interface for the AdMK\_Database. The left sidebar lists tables: New, AdMK\_Database, events, event\_comments, event\_participants, event\_ratings, locations, rsos, rso\_members, universities, users, information\_schema, mysql, performance\_schema, and sys. The rsos table is selected. The main area displays the following data:

	<th>name</th> <th>university_id</th> <th>approved</th> <th>created_by</th> <th>status</th> <th>photo</th> <th>description</th>	name	university_id	approved	created_by	status	photo	description
	21	Frame by Frame	1	1	95	active	rso_1744238849_7809.jpeg	Lights, camera, campus! Frame by Frame is for film...
	22	SciQuest	1	0	96	pending	rso_1744238979_3352.jpeg	Where curiosity meets experimentation. SciQuest br...
	23	Culture Capsule	3	1	108	active	1744247306_rso_1744239122_3801.jpeg	Take a trip around the world without leaving campu...
	24	CoolCrafters	3	1	111	active	rso_1744239234_8732.jpeg	For the students who speak Python better than Eng...
	26	Iron Pulse	2	1	100	active	rso_1744240049_7021.jpeg	Iron Pulse is your go-to fitness family on campus—...
	27	MindScape	2	0	103	active	rso_1744240232_3141.jpeg	A safe haven for thinkers, dreamers, and overthink...

CampusConnect

Youssef Tarek   
y1@aucegypt.edu

Dashboard

Profile

Settings

Joined Events

RSOs

All Events

UCF Feed

Logout



**Frame by Frame**

Status: Active

Description: Lights, camera, campus! Frame by Frame is for film lovers, creators, and analysts who want to explore cinema through screenings, discussions, and student-made short films.

Admin: Laila Gamal (lg4@aucegypt.edu)

[Leave RSO](#)

**RSO Events**

**Frame by Frame Screening**  
Mon, Apr 14 2025 5:00 PM  
Location: Student Union

[View Details](#)

SQL statement to insert a new student to an existing RSO (part of the processing of the ‘Join RSO’ form). Show results.

```
INSERT INTO `rso_members` (`id`, `rso_id`, `user_id`, `role`) VALUES  
(54, 21, 95, 'admin'),
```

CampusConnect

Laila Gamal   
lg4@aucegypt.edu

Dashboard

Profile

Settings

Joined Events

Create New Event

Created Events

RSOs

All Events

UCF Feed

Logout

**My RSOs**

[+ Create RSO Event](#) [+ Join New RSO](#)



 **Frame by Frame** (Admin)

CampusConnect

- Dashboard
- Profile
- Settings
- Joined Events
- Create New Event
- Created Events
- RSOs
- All Events
- UCF Feed
- Logout



Change Photo:  No file chosen

 **Frame by Frame**

Status: Active

Description: Lights, camera, campus! Frame by Frame is for film lovers, creators, and analysts who want to explore cinema through screenings, discussions, and student-made short films.

New Description

Admin: Laila Gamal (lg4@aucegypt.edu)

**RSO Events**

Frame by Frame Screening  
Mon, Apr 14 2025 5:00 PM  
Location: Student Union

	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	<b>id</b>	<b>rso_id</b>	<b>user_id</b>	<b>role</b>
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	54	21	95	admin
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	55	22	96	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	56	23	108	admin
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	57	24	111	admin
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	59	26	100	admin
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	60	27	103	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	62	23	107	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	63	23	109	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	64	23	110	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	65	24	106	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	66	24	107	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	67	24	108	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	68	24	112	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	69	26	101	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	70	26	102	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	71	26	103	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	72	26	104	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	73	27	100	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	74	27	101	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	75	27	102	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	76	27	105	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	77	21	92	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	78	21	93	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	79	21	94	member
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	80	21	96	member

**SQL statement to insert a new event (part of the processing of the ‘Create Event’ form). Show results.**

```
INSERT INTO `events` (`id`, `name`, `description`, `type`, `event_date`, `start_time`, `end_time`, `location_id`, `contact_email`, `contact_phone`, `created_by`, `university_id`, `rso_id`, `approved`, `created_at`, `image_filename`) VALUES
```

```
(15, 'Earth Day Celebration', 'Join us to celebrate Earth Day with sustainability workshops and eco-friendly activities.', 'public', '2025-03-31', '13:00:00', '15:00:00', 4, 'info0@university.edu', '1234567890', 95, 1, NULL, 1, '2025-04-09 23:49:32', 'uploads/events/1744247650_Earth Day Celebration.jpeg');
```

CampusConnect

Laila Gamal lga4@aucegypt.edu

Earth Day Celebration

PUBLIC EVENT

Date: 2025-03-31  
Time: 13:00:00 - 15:00:00  
Location: Sports Center  
Description:  
Join us to celebrate Earth Day with sustainability workshops and eco-friendly activities.  
Created By: Laila Gamal

[View/Add Comments](#) [Back to Events](#)

Share this event:

F X In

<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	15	Earth Day Celebration	Join us to celebrate Earth Day with sustainability...	public	2025-03-31	13:00:00	15:00:00	4	info0@university.edu	1234567890	95	1	NULL	1	2025-04-09 19:49:32	uploads/Celebra...

**SQL statement to insert/update a (new) comment (part of the processing of the ‘Create/Add/Modify Comment’ form). Show results.**

```
INSERT INTO `event_comments` (`id`, `user_id`, `event_id`, `content`, `created_at`) VALUES

(25, 106, 20, 'Loved the variety of food at the festival!', '2025-04-10 03:08:37');
```

	<input type="button" value="← T →"/>	<input type="button" value="▼"/>	<b>id</b>	<b>user_id</b>	<b>event_id</b>	<b>content</b>	<b>created_at</b>	
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	25	106	20 Loved the variety of food at the festival!	2025-04-09 23:08:37

The screenshot shows the CampusConnect application interface. On the left is a sidebar with navigation links: Dashboard, Profile, Settings, Joined Events, RSOs, All Events, UCF Feed, and Logout. The main content area has a header with the user's name, email (James Carter jc1@ucf.edu), and a profile picture. Below the header, there is a section titled "Comments for: Global Food Festival" with a text input field labeled "Leave your comment..." and a "Post Comment" button. Below this is a list of comments, with one comment from James Carter visible: "Loved the variety of food at the festival!" with a timestamp of "2025-04-09 23:08:37". There are "Delete" and "Edit" buttons next to the comment.

**Several SQL queries to display events public, private, and RSO-- (part of the processing of the ‘View Event.’ request by a user with a specific role). Show results.**

```
$query = "
```

```
SELECT e.*, l.name AS location_name
```

```
FROM events e
```

```
JOIN locations l ON e.location_id = l.loc_id
```

```
WHERE (
```

```
    e.type = 'public'
```

```
    OR (e.type = 'private' AND e.university_id = $university_id)
```

```
    OR (e.type = 'rso' AND EXISTS (
```

```
        SELECT 1 FROM rso_members rm WHERE rm.rso_id = e.rso_id AND rm.user_id
= $user_id
```

```

))  

)  

AND e.approved = 1  

AND CONCAT(e.event_date, ' ', e.start_time) >= '$currentDateTime'  

ORDER BY e.event_date, e.start_time  

";

```

The screenshot shows a web-based application interface for 'CampusConnect'. On the left is a dark blue sidebar menu with white text links: Dashboard, Profile, Settings, Joined Events, RSOs, All Events, UCF Feed, and Logout. At the top right, there is a user profile for 'James Carter' with the email 'jct1@ucf.edu' and a small profile picture. The main content area has a light gray background. It features a heading 'Upcoming Events' above three event cards. The first card, 'Culture Capsule Mixer', shows a small image of a device and a water bottle, with details: 'Tue, Apr 15 5:00 PM' and 'Location: Global Studies Center', followed by a 'View Details' button. The second card, 'CodeCrafters Hackathon', shows a blue-themed graphic with a robot character, with details: 'Wed, Apr 16 5:00 PM' and 'Location: Campus Green', followed by a 'View Details' button. The third card, 'Late Night Yoga', shows a person in a yoga pose at night, with details: 'Tue, Apr 22 1:00 PM' and 'Location: Campus Green', followed by a 'View Details' button.

## SQL statements of interest (optional), e.g., advanced SQL queries

### 1. Profile Update

UPDATE users

SET name = ?, email = ?, major = ?, phone = ?, avatar\_filename = ?

WHERE id = ?;

## **2. Theme Preference Update (optional)**

```
UPDATE users
```

```
SET theme_preference = 'dark'
```

```
WHERE id = ?;
```

## **3. Filter Events by Role (Student/Admin Access Control)**

```
SELECT e.*, l.name AS location_name
```

```
FROM events e
```

```
JOIN locations l ON e.location_id = l.loc_id
```

```
WHERE e.approved = 1 AND (
```

```
    e.type = 'public'
```

```
    OR (e.type = 'private' AND e.university_id = ?)
```

```
    OR (e.type = 'rso' AND e.rso_id IN (
```

```
        SELECT rso_id FROM rso_members WHERE user_id = ?
```

```
    ))
```

```
)
```

```
ORDER BY e.event_date, e.start_time;
```

## **4. View RSO Members with User Info**

```
SELECT * FROM rso_members
```

```
JOIN users ON rso_members.user_id = users.id
```

```
WHERE rso_id = ?;
```

## **5. Filter Upcoming Events Only**

```
SELECT * FROM events
```

```
WHERE event_date >= CURDATE();
```

## 7.Constraint Enforcement

**A new event to be held at the same location and overlapping times with an existing event: Show error message with enough detail such as the conflicting event, time, location, etc.**

The events that clashes with:

The screenshot shows a user interface for 'CampusConnect'. On the left is a sidebar with navigation links: Dashboard, Profile, Settings, Joined Events, Create New Event, Created Events, RSOs, All Events, UCF Feed, and Logout. At the top right, a user profile for 'Ethan Roberts' is shown with the email 'er3@ucf.edu'. The main content area displays an event titled 'Global Food Festival' with a colorful banner featuring various international landmarks. Below the title, it says 'PUBLIC EVENT'. The event details are: Date: 2025-04-17, Time: 13:00:00 - 15:00:00, Location: Technology Center. The description states: 'Taste dishes from around the world presented by international student groups.' and 'Created By: Mikko Laine'. There are buttons for 'Join Event' and 'Back to Events'. Below these buttons, there is a 'Share this event:' section with icons for Facebook (F), Twitter (X), and LinkedIn (in).

**The error message:**

CampusConnect

Ethan Roberts er3@ucf.edu

### Create an Event

**X** The event is overlapping with another event on this day.  
Here are all events for 2025-04-17 at this location:  
Global Food Festival: 1:00 PM - 3:00 PM

**Event Name**  
Soccer

**Description**  
BEST Sports Ever

**Event Type**  
Private

**Event Date**  
15/04/2025

**Start Time**  
01:30 PM

**End Time**  
04:00 PM

**Contact Email**

**Contact Phone**

**Location**  
Technology Center

Event Image (optional)

**An admin who is not the Admin of the RSO attempts to create an event for that RSO: Show an error message.**

In our case we do not show the create event button for an admin who is not an admin of the RSO.

CampusConnect

James Carter jc1@ucf.edu



**Culture Capsule**  
Status: Active  
Description: Take a trip around the world without leaving campus. Culture Capsule celebrates global traditions through food festivals, language cafes, and cultural exchange nights—all led by the diverse student body.  
Admin: Ethan Roberts (er3@ucf.edu)

**Leave RSO**

**RSO Events**

**Culture Capsule Mixer**  
Tue, Apr 15 2025 5:00 PM  
Location: Global Studies Center

**View Details**

**An INSERT of a member of an RSO with 4 members: Show the status of the RSO changing to ‘Active.’ A DELETE of a member of an RSO with 5 members: Show the status of the RSO changing to ‘Inactive.’**

**Here is the status is active, as we have 5 members**

The screenshot shows the CampusConnect application interface. On the left is a dark blue sidebar with navigation links: Dashboard, Profile, Settings, Joined Events, RSOs, All Events, UCF Feed, and Logout. The main content area has a header with a user profile for Emilia Heikkinen (emilia5@helsinki.fi). Below the header, it says "RSOs" and shows a list for "MindScape". The RSO details are as follows:

- Name:** MindScape
- Status:** Active
- Description:** A safe haven for thinkers, dreamers, and overthinkers alike. MindScape hosts weekly open-floor discussions, mindfulness sessions, and wellness events aimed at exploring mental health through community, creativity, and compassion.
- Admin:** Emilia Heikkinen (emilia5@helsinki.fi)

Below the description, there is a "Leave RSO" button and a message: "No events for this RSO yet."

**Here is a screenshot of the five member**

The screenshot shows the CampusConnect application interface. On the left is a dark blue sidebar with navigation links: Dashboard, Profile, Settings, Joined Events, Create New Event, Created Events, RSOs, All Events, UCF Feed, and Logout. The main content area has a header with a user profile for Emilia Heikkinen (emilia5@helsinki.fi). Below the header, it says "Members of RSO" and shows a list for "MindScape". The RSO details are as follows:

- Name:** MindScape
- Admin:** Emilia Heikkinen (emilia5@helsinki.fi)

The member list table has columns: Name, Email, and Action. The data is:

Name	Email	Action
Emilia Heikkinen	emilia5@helsinki.fi	<button>Delete</button>
Mikko Laine	mikko2@helsinki.fi	<button>Delete</button>
Laura Niemi	laura3@helsinki.fi	<button>Delete</button>
Juho Korhonen	juho4@helsinki.fi	<button>Delete</button>
Sofia Salonen	sofia7@helsinki.fi	<button>Delete</button>

At the bottom of the table, there is a "Back to RSO" button.

Here is the state is pending (inactive), as we only have 4 members

The screenshot shows the CampusConnect application's RSO management page. On the left is a dark sidebar with navigation links: Dashboard, Profile, Settings, Joined Events, Create New Event, Created Events, RSOs, All Events, UCF Feed, and Logout. The main content area displays a single RSO entry for "MindScape". At the top right is a user profile for "Emilia Heikkinen" with the email "emilia5@helsinki.fi" and a small profile picture. Below the profile, there is a placeholder for a photo with a "Change Photo" button, a "Choose File" input field showing "No file chosen", and a "Save" button. The RSO name "MindScape" is displayed with a pink heart icon. A status indicator shows "Pending". The description reads: "A safe haven for thinkers, dreamers, and overthinkers alike. MindScape hosts weekly open-floor discussions, mindfulness sessions, and wellness events aimed at exploring mental health through community, creativity, and compassion." There is a "New Description" input field and a "Save" button. The admin information is listed as "Admin: Emilia Heikkinen (emilia5@helsinki.fi)". At the bottom are two buttons: "View Members" and "Delete RSO".

List of 4 members:

The screenshot shows the "Members of RSO: MindScape" page. The sidebar on the left is identical to the previous screenshot. The main content area lists four members in a table format. The columns are "Name", "Email", and "Action". Each row contains a "Delete" button in the "Action" column. The members are: Emilia Heikkinen (email: emilia5@helsinki.fi), Mikko Laine (email: mikko2@helsinki.fi), Laura Niemi (email: laura3@helsinki.fi), and Juho Korhonen (email: juho4@helsinki.fi). At the bottom left is a "Back to RSO" button.

Name	Email	Action
Emilia Heikkinen	emilia5@helsinki.fi	Delete
Mikko Laine	mikko2@helsinki.fi	Delete
Laura Niemi	laura3@helsinki.fi	Delete
Juho Korhonen	juho4@helsinki.fi	Delete

## 8. Advanced Features

Several advanced features were implemented to enhance the functionality and user experience of the College Event Website:

## **1. Light/Dark Theme Support:**

Users can toggle between light and dark themes. The theme preference is stored in the session and dynamically applied across all pages using CSS variables.

## **2. Image Uploads**

Users can upload:

- Profile avatars during registration
- Event images when creating or editing events:
  - Images are saved in server directories and linked via file paths stored in the database.

## **3. Dynamic Role-Based Dashboards**

Each user role has a dedicated dashboard:

- **Students** see relevant events and RSOs
- **Admins** manage events for RSOs they created
- **Super Admins** can manage users, universities, and pending events

## **4. UCF Event Feed Integration (Mocked)**

A JSON file simulating UCF's event feed (mock\_ufc\_events.json) is parsed and external events are displayed in external\_events.php. This demonstrates integration with outside event systems.

## **5. Session-Based Authentication**

Each page checks for an active session and enforces access restrictions. Users are redirected to the login page if not authenticated.

## **6. RSO Activation Logic**

The system tracks the number of RSO members. Once five students join, the RSO's status automatically updates to "active". Similarly, if members fall below five, it reverts to "inactive".

## **9. Conclusion & Observations:**

The College Event Website (CEW) successfully demonstrates how a full-stack web application can be used to solve a real-world problem by enabling universities to centralize and manage

campus events. Throughout this project, our team implemented core database concepts, backend logic, frontend design, and integration techniques to create a functional, user-friendly system.

## **Desired Functionalities and Enhancements:**

- The project currently uses a mocked event feed from UCF, but future enhancements could include **live API integration** for real-time updates.
- Security measures like **password hashing**, **rate limiting**, and **CSRF protection** can be further implemented.
- Integration with **Google Maps API** for dynamic location selection is a possible feature extension.
- **Social media posting** (e.g., share to Facebook or Twitter) remains a future enhancement goal.

## **Challenges & Lessons Learned:**

- Ensuring data integrity across multiple relationships, especially with RSOs and events, required deep understanding of foreign keys and constraints.
- Designing a scalable UI that works for multiple user roles introduced complexity in session handling and layout logic.
- Managing file uploads and displaying them safely introduced considerations in directory permissions and path sanitization.

## **Reflection:**

This project helped us understand the full software development cycle — from ER modeling and SQL design to actual front-end-backend integration. It provided hands-on experience in building a real database-driven application, and highlighted the importance of proper planning, testing, and modular coding. If we were to restart, we would:

- Spend more time planning table relationships to simplify JOIN operations
- Modularize code early to avoid redundancy
- Use a templating engine or MVC structure for clearer separation of concerns

