

Project Report: College Event Website

Group #10: Angelica Longo & Kevin Samsoe

Spring 2021 COP 4710-0V01

Table of Contents

Project Description	pg. 3
Additional Assumptions	pg. 3
Graphical User Interface (GUI)	pg. 3
ER-Model	pg. 9
Relational Data Model	pg. 10
Sample Data	pg. 11
SQL Examples & Results	pg. 13
Constraint Enforcements	pg. 16
Advanced Features	pg. 19
Conclusion & Observations	pg. 21

Project Description

Implementation of a college event web application where there are 3 user levels. All users register with their university email to obtain login credentials (given as a user ID and a password).

A “*Super Admin*” can create a profile for a university (given a name, location, description, and number of students), a “*Student*” can register their account once a Super Admin has created a profile for their university, and a Student can become an “*Admin*” if they create an organization (an RSO), and 5 or more other students join it.

Thus, Admins own RSOs and may also host events. Events can be created with a name, event category, description, time, date, location, status (public, private, members only), contact phone, and contact email address. In addition, events can be created without an RSO, but such events must be approved by the University’s Super Admin.

Students who use the application can look up information about the various events, create new RSOs, or join an existing one. Users can filter events by selecting the University they want to see the events from, or by RSOs they are following. Furthermore, users can add, remove, and edit comments on published events.

Additional Assumptions

To simplify the implementation of the project, Super Admin accounts should be registered first so that they can create university profiles for the students to who wish to register. To register a Super Admin account that has special access to creating a university profile, a code must be entered when completing registration form (Administration code is “123”). Note that this process is not shown in the project’s demo.

To make the project more realistic, any student can create their own organization. However, each newly created RSO will be listed under “New Organizations”, where other students have the option to help startup new RSOs. Once an RSO has 5 members, the student who started the organization becomes an Admin, and the organization will be moved to “Listed Organizations”.

Additional project implementations include being able to view all the university profiles, and users can view their profile information under their user account.

Graphical User Interface (GUI)

What platform?

The platform used during the development of the project was Windows, and Sublime Text was used as the code editor for its simplicity in supporting markup languages.

Which languages used?

In this project, PHP was the server-side scripting language used for developing the web application, as well as manage the dynamic content and the database. HTML was used for structuring the web page layouts and its elements within the pages.

What DBMS?

PhpMyAdmin was the open-source administration tool used to handle the administration tasks, including creating the MySQL database, running the queries, and adding user accounts. This software allowed for the ability to create, alter, drop, delete, import, and export the MySQL database tables on the local web browser.

Registration

Enter your information, and click "Obtain" to receive your user ID and password.

*Name:

*Email:

*University:

Code (Administration Only):

[Back to login page](#)

Login Page

User ID:

Password:

[Register Here!](#)

Screenshot of the “Registration” interface

Screenshot of the “Login” interface

[College Events](#)
[Request New RSO](#)
[Join an RSO](#)
[Create an Event](#)
[Event Comments](#)
[University Profiles](#)
[Angelica Longo's Account](#)
[Logout](#)

Published Events

Tips To Get Better At Math!
Category: Workshop
Description: Join this upcoming workshop to learn 5 neat tricks to improve your math skills!
Location: UCF Mathematical Sciences Building
Date/Time: 2021-04-15 17:41:36
Phone Contact: none
Email Contact: kevin@knights.ucf.edu
Status: Private

First Track Meeting
Category: Social
Description: Track practice. All are welcome to come and show support to our team.
Location: Azalea Park, FL 32807
Date/Time: 2021-04-25 10:04:00
Phone Contact: none
Email Contact: bradford@knights.ucf.edu
Status: Public

School Board Meeting
Category: Corporate
Description: Formal business meeting for the district where items are voted upon by the entire board for approval.
Location: 12715 Pegasus Dr, Orlando, FL 32816

Event Filters

View by University:

View events from your RSOs? Yes No

Screenshot of the “View Events” interface

Request A New RSO:

Name for your new organization:

Description about your new organization:

Request

Screenshot of the "Create RSO" interface

Listed Organizations

Check out some popular organizations!

Join an RSO here:

Math Club
Description: The purpose of the Math Club is to promote an enthusiasm for mathematics in and out of the school environment. The club will use problem-solving activities to build mathematical skills. The club will also participate in community service and in local mathematical competitions.
Admin: Kevin Samsoe
Number of Members: 7

Spanish Club
Description: The Spanish Club serves to expand the study of the Spanish language and culture.
Admin: Adriana Kennedy
Number of Members: 5

Student Council
Description: Student Council serves as the voice of the student body. The club is an advocate of student issues and concerns.
Admin: Elliot Bradford
Number of Members: 9

Dungeons and Dragons Club
Description: Come join us to play DnD! We play traditional games as well as

New Organizations

These organizations are trying to gain more members.

Help Start an Organization:

Book Club
Description: Book Club will meet once every 9 weeks to discuss a previously read book. There are no dues, but students must obtain a copy of the current book on their own and read it before the club meeting. Cost per book will range from \$10 to \$20.
Admin: Angelica Longo
Number of Members: 4

Fellowship of Christian Athletes
Description: The mission of FCA is to present to coaches and athletes, and all whom they influence, the challenge and adventure of receiving Jesus Christ as Savior and Lord, serving Him in their relationships and in the fellowship of the church.
Admin: Elliot Bradford
Number of Members: 3

Friends in Hand
Description: Raising awareness for mental health. Providing a personal journey that leads to help others.

Screenshot of the "Join RSO" interface

Create an Event:

Name of new event:

Select event category:

Description:

Date/Time: mm/dd/yyyy --:-- --

Location:

Phone Contact (optional): none

Event Status:

NOTE: Events created by students will need to be approved by University administration before being listed.

Screenshot of the “Create Event” interface

Select An Event To Leave A Comment:

Event Comments:

Tips To Get Better At Math!

		Delete	Edit
Johanna Bauer	2021-04-16 10:46:36	<input type="button" value="Delete"/>	<input type="button" value="Edit"/>
Always wanted to get better at math haha			
Haleigh Melton	2021-04-16 10:53:07	<input type="button" value="Delete"/>	<input type="button" value="Edit"/>
Same lol. Ill definitely be there!			

Screenshot of the “Event Comments” interface

Create A University Profile:

Name:

Location:

Description:

Number of Students:

Create

[Back to Account](#)

Screenshot of the “Create University Profile” interface



Listed Universities:

Name: University of Central Florida

Location: 4000 Central Florida Blvd, Orlando, FL 32816

Description: The University of Central Florida is a public research university in unincorporated Orange County, Florida. It is part of the State University System of Florida. With almost 72,000 students, it currently has the largest student body in the United States.

Number of Students: 66183

Name: University of Florida

Location: Gainesville, FL 32611

Description: The University of Florida is a public land-grant research university in Gainesville, Florida. It is a senior member of the State University System of Florida and traces its origins to 1853 and has operated continuously on its Gainesville campus since September 1906.

Number of Students: 52367

Name: University of South Florida

Location: 4202 E Fowler Ave, Tampa, FL 33620

Description: The University of South Florida is a public research university with campuses in Tampa, St. Petersburg, and Sarasota, Florida; with the main campus located in Tampa. It is one of 12 members of the State University System of Florida.

Number of Students: 49591

Name: Florida Atlantic University

Location: 777 Glades Rd, Boca Raton, FL 33431

Description: Florida Atlantic University is a public research university with its main campus in Boca Raton, Florida and satellite campuses in Dania Beach, Davie, Fort Lauderdale, Jupiter, and Fort Pierce.

Number of Students: 30377

Screenshot of the “University Profiles” interface

Account Information:

Name: Angelica Longo

Account Type: Student

University: University of Central Florida

User ID: 54612

Password: 55666107

Email: angelica@knights.ucf.edu

Followed RSOs: Book Club Creation Club Game Dev Club Fireflies Student Council Programming Club

Owned RSOs: [Book Club] [Creation Club]

Want to leave an RSO?

Select RSO	<input type="button" value="Leave"/>
Student Council	
Game Dev Club	
Programming Club	
Fireflies	

Screenshot of the "Account" interface (Student/Admin)

Account Information:

Name: Farrell Drew

Account Type: Super Admin

University: None

User ID: 53142

Password: 16898

Email: drew@fiu.edu

Followed RSOs:

Owned RSOs:

Want to leave an RSO?

Select RSO	<input type="button" value="Leave"/>
------------	--------------------------------------

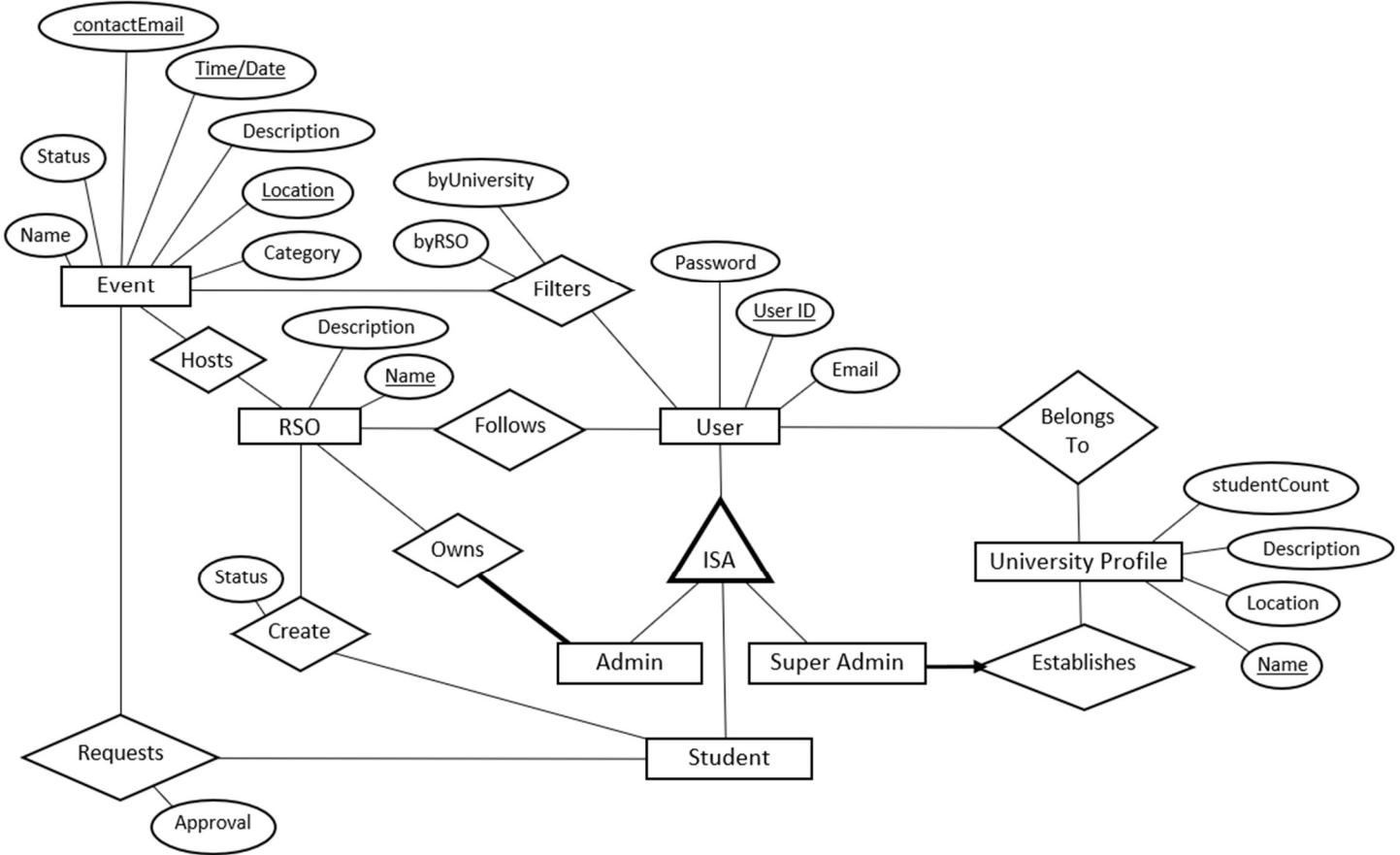
[Click here to create a University Profile!](#)

Any unapproved events requested by students will be listed here:

Select	<input type="button" value="Approve"/>
--------	--

Screenshot of the "Account" interface (Super Admin)

ER-Model



Constraints:

It is not possible to notate a required constraint in an ER diagram in order to express some sort of equivalence. For example, all events created (requested) by Students must be approved by Super Admins.

Relational Data Model

All assertions and triggers are implemented via PHP scripts and functions.

```
CREATE TABLE `users` (
  `id` bigint(20) NOT NULL AUTO_INCREMENT,
  `user_id` bigint(20) NOT NULL,
  `name` varchar(100) NOT NULL,
  `password` varchar(100) NOT NULL,
  `email` varchar(100) NOT NULL,
  `acc_type` varchar(100) NOT NULL,
  `university` varchar(100) NOT NULL,
  `followingRSOs` varchar(1000) NOT NULL,
  PRIMARY KEY (`id`),
  KEY `user_id` (`user_id`),
  KEY `name` (`name`)
)
```

```
CREATE TABLE `events` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `name` varchar(100) NOT NULL,
  `category` varchar(100) NOT NULL,
  `description` varchar(1000) NOT NULL,
  `eventDateTime` timestamp NOT NULL DEFAULT
current_timestamp() ON UPDATE
current_timestamp(),
  `location` varchar(1000) NOT NULL,
  `phone_num` varchar(13) NOT NULL,
  `email` varchar(100) NOT NULL,
  `university` varchar(100) NOT NULL,
  `status` varchar(50) NOT NULL,
  `approved` varchar(100) NOT NULL,
  `rso_event` varchar(50) NOT NULL,
  PRIMARY KEY (`id`)
)
```

```
CREATE TABLE `comments` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `user_id` varchar(128) NOT NULL,
  `date` datetime NOT NULL,
  `message` varchar(200) NOT NULL,
  `event` varchar(100) NOT NULL,
  PRIMARY KEY (`id`)
)
```

```
CREATE TABLE `universities` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `name` varchar(100) NOT NULL,
  `location` varchar(200) NOT NULL,
  `description` varchar(500) NOT NULL,
  `students` bigint(10) NOT NULL,
  PRIMARY KEY (`id`)
)
```

```
CREATE TABLE `organizations` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `rso_name` varchar(100) NOT NULL,
  `description` varchar(1000) NOT NULL,
  `user_name` varchar(100) NOT NULL,
  `user_id` bigint(20) NOT NULL,
  `members` bigint(20) NOT NULL,
  PRIMARY KEY (`id`)
)
```

Sample Data

Showing rows 0 - 3 (4 total, Query took 0.0008 seconds.) [students: 30377... - 66183...]

SELECT * FROM `universities` ORDER BY `students` ASC

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

	Show all	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None
+ Options	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>						
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Screenshot of MySQL Workbench showing the populated 'events' database table.

Events Database Table:

+ Options	id	name	category	description	eventDateTime	location	phone_num	email	university	status	approved	rso_event
<input type="checkbox"/> Edit Copy Delete	6	Tips To Get Better At Math!	Workshop	Join this upcoming workshop to learn 5 neat tricks.	2021-04-15 17:41:36	UCF Mathematical Sciences Building	none	kevin@knights.ucf.edu	University of Central Florida	Private	Yes	Math Club
<input type="checkbox"/> Edit Copy Delete	5	Spooky Stories!	Social	We will be reading scary stories to kids at the Or...	2021-04-15 17:41:54	101 E Central Blvd, Orlando, FL 32801	none	angelica@knights.ucf.edu	University of Central Florida	Members	No	Book Club
<input type="checkbox"/> Edit Copy Delete	8	School Board Meeting	Corporate	Formal business meeting for the district where it...	2021-04-19 17:04:00	12715 Pegasus Dr, Orlando, FL 32816	none	bradford@knights.ucf.edu	University of Central Florida	Private	Yes	Student Council
<input type="checkbox"/> Edit Copy Delete	15	Movie Night!	Social	Lets watch Frozen 2!	2021-12-10 17:12:00	777 Glades Rd, Boca Raton, FL 33431	407-123-321	mcconnell@fau.edu	Florida Atlantic University	Public	No	No
<input type="checkbox"/> Edit Copy Delete	11	Lets Talk Dota!	Fundraising	Learn more about the game, and why so many play it...	2021-05-05 16:05:00	1505 S Semoran Blvd, Orlando, FL 32807	none	bauer@usf.edu	University of South Florida	Public	Yes	Data 2 Club
<input type="checkbox"/> Edit Copy Delete	12	Hackathon	Virtual	Gather your friends and join our first coding comp...	2021-04-27 15:04:00	1995 Dade Ave #1973, Boca Raton, FL 33431	none	wall@fau.edu	Florida Atlantic University	Private	Yes	Programming Club
<input type="checkbox"/> Edit Copy Delete	7	First Track Meeting	Social	Track practice. All are welcome to come and show s...	2021-04-25 10:04:00	Azalea Park, FL 32807	none	bradford@knights.ucf.edu	University of Central Florida	Public	Yes	Fellowship of Christian Atheltics
<input type="checkbox"/> Edit Copy Delete	10	First DnD Session	Social	Roleplay your characters, order the initiative, an...	2021-04-29 13:04:00	2451 Dean Rd, Union Park, FL 32817	none	potter@usf.edu	University of South Florida	Members	Yes	Dungeons and Dragons Club
<input type="checkbox"/> Edit Copy Delete	13	Christmas Party	Social	Fun party to enjoy the holidays!	2021-12-20 20:12:00	6000 W Osceola Pkwy, Kissimmee, FL 347466000 W Osc...	407-321-456	griffin@uf.edu	University of Florida	Public	No	No
<input type="checkbox"/> Edit Copy Delete	14	Beach Party	Social	Lets have some fun at Clearwater Beach!	2021-05-19 12:05:00	Clearwater, FL	407-123-456	bray@usf.edu	University of South Florida	Public	No	No

Populated 'Events' Database Table

Screenshot of MySQL Workbench showing the populated 'comments' database table.

Comments Database Table:

+ Options	id	user_id	date	message	event
<input type="checkbox"/> Edit Copy Delete	17	Sophia Mcconnell	2021-04-15 19:43:50	Sounds fun! Can wait!	First DnD Session
<input type="checkbox"/> Edit Copy Delete	18	Angelica Longo	2021-04-16 10:42:54	Make sure to arrive 15 minutes early!	School Board Meeting
<input type="checkbox"/> Edit Copy Delete	19	Angelica Longo	2021-04-16 10:45:17	Hope yall are ready for this!!	Hackathon
<input type="checkbox"/> Edit Copy Delete	20	Johanna Bauer	2021-04-16 10:46:36	Always wanted to get better at math haha	Tips To Get Better At Math!
<input type="checkbox"/> Edit Copy Delete	21	Johanna Bauer	2021-04-16 10:47:08	Yeah! Gunna be tons of fun!	First DnD Session
<input type="checkbox"/> Edit Copy Delete	22	Gretchen Castaneda	2021-04-16 10:48:59	I wont be able to go, but I hope you guys have a g...	First Track Meeting
<input type="checkbox"/> Edit Copy Delete	23	Gretchen Castaneda	2021-04-16 10:50:14	Best game of ALL TIME!	Lets Talk Dota!
<input type="checkbox"/> Edit Copy Delete	24	Haleigh Melton	2021-04-16 10:53:07	Same lol. Ill definitely be there!	Tips To Get Better At Math!
<input type="checkbox"/> Edit Copy Delete	25	Haleigh Melton	2021-04-16 10:53:13	I could spend an entire day talking about Dota lol	Lets Talk Dota!
<input type="checkbox"/> Edit Copy Delete	27	Emerson Bray	2021-04-16 11:19:55	Bring it on!	Hackathon

Populated 'Comments' Database Table

SQL Examples & Results

- **SQL statement to insert a new RSO (code for the 'Create RSO' form):**

```
$sql = "INSERT into organizations (rso_name, description, user_name, user_id, members) VALUES ('$rso_name', '$description', '$user_name', '$user_id', '1')";
```

id	rso_name	description	user_name	user_id	members ▲ 1
22	Debate Club	We host debates between students weekly. Topics ra...	Amiah Kennedy	9575	1

- **SQL statement to insert a new student to an existing RSO (code for the 'Join RSO' form):**

```
$sql = "UPDATE users SET followingRSOs='$updated' WHERE user_id='$id';
```

id	user_id	name	password	email	acc_type	university ▲ 1	followingRSOs
36	1232	Adriana Kennedy	1128	kennedy@knights.ucf.edu	Admin	University of Central Florida	
36	1232	Adriana Kennedy	1128	kennedy@knights.ucf.edu	Admin	University of Central Florida	Spanish Club

- **SQL statement to insert a new event (code for the 'Create Event' form):**

```
$sql = "INSERT into events (name, category, description, eventDateTime, location, phone_num, email, university, status, approved, rso_event)
VALUES ('$name', '$category', '$description', '$timestamp', '$location',
'$phone', '$email', '$university', '$status', '$approved', '$rsoEvent')";
```

id	name ▼	category	description	eventDateTime	location	phone_num	email	university	status	approved	rso_event
6	Tips To Get Better At Math!	Workshop	Join this upcoming workshop to learn 5 neat tricks...	2021-04-15 17:41:36	UCF Mathematical Sciences Building	none	kevin@knights.ucf.edu	University of Central Florida	Private	Yes	Math Club

- **SQL statement to insert/update a (new) comment (code for the 'Create/Add/Modify Comment' form):**

```
$sql = "INSERT into comments (user_id, date, message, event) VALUES
('$user_id', '$date', '$message', '$event')";
```

id	user_id ▲ 1	date	message	event
18	Angelica Longo	2021-04-16 10:42:54	Make sure to arrive 15 minutes early!	School Board Meeting

...and if comment gets updated...

```
$sql = "UPDATE comments SET message='$message' WHERE id='$id';
```

id	user_id ▲ 1	date	message	event
18	Angelica Longo	2021-04-16 10:42:54	Make sure to arrive 20 minutes early!	School Board Meeting

- Several SQL queries to display events (code for the 'View Event' filtered by a user):

For example...

id	user_id	name	password	email	acc_type	university	followingRSOs
49	3156	Johanna Bauer	21955	bauer@usf.edu	Admin	University of South Florida	Dota 2 Club Math Club Dungeons and Dragons Club

...SQL query to display public events (all approved events)

```
$query = "SELECT * FROM events WHERE approved='Yes'" ;
```

The screenshot shows a web interface for managing events. At the top, there is a navigation bar with links: College Events, Request New RSO, Join an RSO, Create an Event, Event Comments, University Profiles, Johanna Bauer's Account, and Logout.

Published Events section:

- Tips To Get Better At Math!**
 - Category: Workshop
 - Description: Join this upcoming workshop to learn 5 neat tricks to improve your math skills!
 - Location: UCF Mathematical Sciences Building
 - Date/Time: 2021-04-15 17:41:36
 - Phone Contact: none
 - Email Contact: kevin@knights.ucf.edu
 - Status: Private
- First Track Meeting**
 - Category: Social
 - Description: Track practice. All are welcome to come and show support to our team.
 - Location: Azalea Park, FL 32807
 - Date/Time: 2021-04-25 10:04:00
 - Phone Contact: none
 - Email Contact: bradford@knights.ucf.edu
 - Status: Public
- School Board Meeting**
 - Category: Corporate
 - Description: Formal business meeting for the district where items are voted upon by the entire board for approval.
 - Location: 12715 Pegasus Dr, Orlando, FL 32816

Event Filters section:

- View by University:
- View events from your RSOs? Yes No
-

...SQL query to display private events (events at host's university)

```
$query = "SELECT * FROM events WHERE approved='Yes'
          AND university='$uniFilter'" ;
```

The screenshot shows a web interface for managing events. At the top, there is a navigation bar with links: College Events, Request New RSO, Join an RSO, Create an Event, Event Comments, University Profiles, Johanna Bauer's Account, and Logout.

Published Events section:

- First DnD Session**
 - Category: Social
 - Description: Roleplay your characters, order the initiative, and do all of the combat things!
 - Location: 2451 Dean Rd, Union Park, FL 32817
 - Date/Time: 2021-04-29 13:04:00
 - Phone Contact: none
 - Email Contact: potter@usf.edu
 - Status: Members
- Lets Talk Dota!**
 - Category: Fundraising
 - Description: Learn more about the game, and why so many play it. Bring friends!
 - Location: 1505 S Semoran Blvd, Orlando, FL 32807
 - Date/Time: 2021-05-05 16:05:00
 - Phone Contact: none
 - Email Contact: bauer@usf.edu
 - Status: Public

Event Filters section:

- View by University:
- View events from your RSOs? Yes No
-

...SQL query to display RSO events (events from RSOs that user follows)

```
$query = "SELECT * FROM events WHERE approved='Yes'";  
  
$string = $user_data['followingRSOs'];  
  
while($row = mysqli_fetch_assoc($result)){  
  
    $currentRSO = $row['rso_event'];  
  
    if(str_contains($string, $currentRSO)){  
  
        //display information found in database  
  
    }  
  
}
```

The screenshot shows a web application interface. At the top, there is a navigation bar with links: College Events, Request New RSO, Join an RSO, Create an Event, Event Comments, University Profiles, Johanna Bauer's Account, and Logout. Below the navigation bar, there are two main sections. On the left, under the heading 'Published Events', there are three event cards: 'Tips To Get Better At Math!', 'First DnD Session', and 'Lets Talk Dota!'. Each card displays event details such as category, description, location, date/time, phone contact, email contact, status, and RSO. On the right, there is a sidebar titled 'Event Filters' with dropdown menus for 'View by University' (set to 'Choose here') and 'View events from your RSOs?' (set to 'Yes'), and a 'Refresh Page' button.

Published Events

Tips To Get Better At Math!
Category: Workshop
Description: Join this upcoming workshop to learn 5 neat tricks to improve your math skills!
Location: UCF Mathematical Sciences Building
Date Time: 2021-04-15 17:41:36
Phone Contact: none
Email Contact: kevin@knights.ucf.edu
Status: Private
RSO: Math Club

First DnD Session
Category: Social
Description: Roleplay your characters, order the initiative, and do all of the combat things!
Location: 2451 Dean Rd, Union Park, FL 32817
Date Time: 2021-04-29 13:04:00
Phone Contact: none
Email Contact: potter@usf.edu
Status: Member
RSO: Dungeons and Dragons Club

Lets Talk Dota!
Category: Fundraising
Description: Learn more about the game, and why so many play it. Bring friends!
Location: 1505 S Semoran Blvd, Orlando, FL 32807

Event Filters

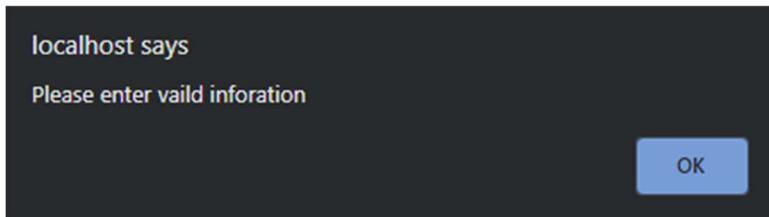
View by University: Choose here

View events from your RSOs? Yes No

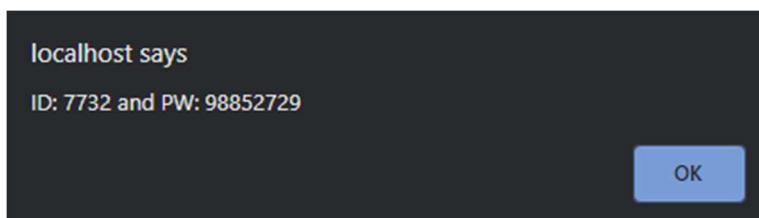
Refresh Page

Constraint Enforcements

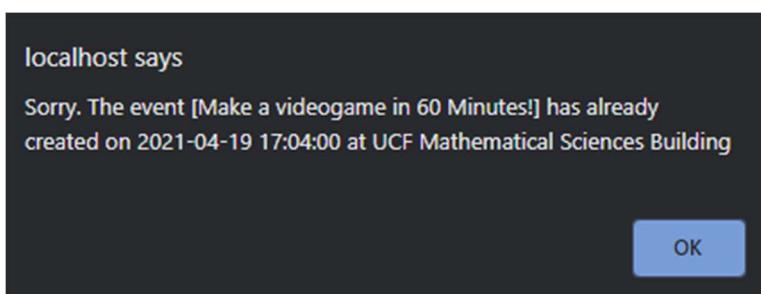
- Logging in without entering information causes an error message. Same message appears when submitting a blank/invalid registration or new RSO form.



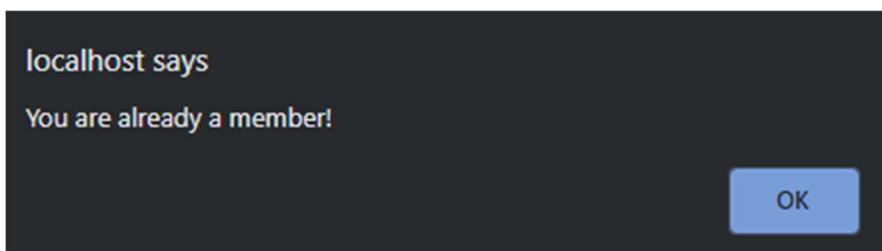
- Once a new user fills out the registration form, a pop-up message will appear displaying the user's generated user id and password to login to their account. Clicking "OK" will redirect user to the login page.



- Multiple events can have the same name, however, creating an event with the same time, date, and location as another event will cause an error message.



- Trying to join an organization that you are already a member of will cause an error message.



All organizations that have less than 5 members will be listed under “New Organizations”, this allows other students to help startup new RSOs. Once an organization has 5 or more members, it gets moved under “Listed Organizations” where the more popular RSOs are. If many students leave a popular RSO and the member count becomes less than 5, then the organization get put back under “New Organizations”.

For example...

id	rso_name	description	user_name	user_id	members
13	Book Club	Book Club will meet once every 9 weeks to discuss ...	Angelica Longo	54612	4

id	rso_name	description	user_name	user_id	members
14	Spanish Club	The Spanish Club serves to expand the study of the...	Adriana Kennedy	1232	5

Sophia joins ‘Book Club’ that has 4 members, and ‘Spanish Club’ that has 5 members.

College Events Request New RSO Join an RSO Create an Event Event Comments University Profiles Sophia McConnell's Account Logout

Listed Organizations

Check out some popular orgaizations!

Join an RSO here:

Math Club
Description: The purpose of the Math Club is to promote an enthusiasm for mathematics in and out of the school environment. The club will use problem-solving activities to build mathematical skills. The club will also participate in community service and in local mathematical competitions.
Admin: Kevin Samsoe
Number of Members: 7

Spanish Club
Description: The Spanish Club serves to expand the study of the Spanish language and culture.
Admin: Adriana Kennedy
Number of Members: 5

Student Council
Description: Student Council serves as the voice of the student body. The club is an advocate of student issues and concerns.
Admin: Elliot Bradford
Number of Members: 9

Dungeons and Dragons Club
Description: Come join us to play D&D! We play traditional games as well as...

New Organizations

These orgaizations are trying to gain more members.

Help Start an Organization:

Book Club
Description: Book Club will meet once every 9 weeks to discuss a previously read book. There are no dues, but students must obtain a copy of the current book on their own and read it before the club meeting. Cost per book will range from \$10 to \$20.
Admin: Angelica Longo
Number of Members: 4

Fellowship of Christian Athelitics
Description: The mission of FCA is to present to coaches and athletes, and all whom they influence, the challenge and adventure of receiving Jesus Christ as Savior and Lord, serving Him in their relationships and in the fellowship of the church.
Admin: Elliot Bradford
Number of Members: 3

Friends in Hand
Description: Raising awareness for mental health. Providing a personal journey that leads to help others.
Admin: Mohamed Palmer
Number of Members: 4

Joining ‘Book Club’ places it under “Listed Organizations” since now it has 5 members.

College Events Request New RSO Join an RSO Create an Event Event Comments University Profiles Sophia McConnell's Account Logout

Listed Organizations

Check out some popular orgaizations!

Join an RSO here:

Math Club
Description: The purpose of the Math Club is to promote an enthusiasm for mathematics in and out of the school environment. The club will use problem-solving activities to build mathematical skills. The club will also participate in community service and in local mathematical competitions.
Admin: Kevin Samsoe
Number of Members: 7

Book Club
Description: Book Club will meet once every 9 weeks to discuss a previously read book. There are no dues, but students must obtain a copy of the current book on their own and read it before the club meeting. Cost per book will range from \$10 to \$20.
Admin: Angelica Longo
Number of Members: 5

Spanish Club
Description: The Spanish Club serves to expand the study of the Spanish language and culture.
Admin: Adriana Kennedy
Number of Members: 6

New Organizations

These orgaizations are trying to gain more members.

localhost says
Joined orgaization successfully!

OK

Book Club
Description: Book Club will meet once every 9 weeks to discuss a previously read book. There are no dues, but students must obtain a copy of the current book on their own and read it before the club meeting. Cost per book will range from \$10 to \$20.
Admin: Angelica Longo
Number of Members: 5

Friends in Hand
Description: Raising awareness for mental health. Providing a personal journey that leads to help others.
Admin: Mohamed Palmer
Number of Members: 4

The Revision
Description: Help clean up and restore the community!
Admin: Karla Griffin
Number of Members: 4

Anonymous Theatre
Description: An organization fundamentally invested in teaching and sharing

Any changes made will also be reflected in the ‘organizations’ database table.

13 Book Club	Book Club will meet once every 9 weeks to discuss ...	Angelica Longo	54612	5
14 Spanish Club	The Spanish Club serves to expand the study of the...	Adriana Kennedy	1232	6

If Sophia leaves Book Club, the number of members decreases to 4...

College Events	Request New RSO	Join an RSO	Create an Event	Event Comments	University Profiles	Sophia Mcconnell's Account	Logout
----------------	-----------------	-------------	-----------------	----------------	---------------------	----------------------------	--------

Account Information:

Name: Sophia Mcconnell

Account Type: Student

University: Florida Atlantic University

User ID: 713

Password: 5190

Email: mcconnell@fau.edu

Followed RSOs: Book Club Spanish Club

Owned RSOs:

Want to leave an RSO?
Select RSO <input type="button" value="Leave"/>
<input checked="" type="button" value="Book Club"/>
<input type="button" value="Spanish Club"/>

... and the RSO will move back to “New Organizations”

College Events	Request New RSO	Join an RSO	Create an Event	Event Comments	University Profiles	Sophia Mcconnell's Account	Logout
----------------	-----------------	-------------	-----------------	----------------	---------------------	----------------------------	--------

Listed Organizations

Check out some popular organizations!

Join an RSO here:

Math Club

Description: The purpose of the Math Club is to promote an enthusiasm for mathematics in and out of the school environment. The club will use problem-solving activities to build mathematical skills. The club will also participate in community service and in local mathematical competitions.

Admin: Kevin Samsoe

Number of Members: 7

Spanish Club

Description: The Spanish Club serves to expand the study of the Spanish language and culture.

Admin: Adriana Kennedy

Number of Members: 6

Student Council

Description: Student Council serves as the voice of the student body. The club is an

New Organizations

These organizations are trying to gain more members.

Help Start an Organization:

Book Club

Description: Book Club will meet once every 9 weeks to discuss a previously read book. There are no dues, but students must obtain a copy of the current book on their own and read it before the club meeting. Cost per book will range from \$10 to \$20.

Admin: Angelica Longo

Number of Members: 4

Fellowship of Christian Atheltics

Description: The mission of FCA is to present to coaches and athletes, and all whom they influence, the challenge and adventure of receiving Jesus Christ as Savior and Lord, serving Him in their relationships and in the fellowship of the church.

Admin: Elliot Bradford

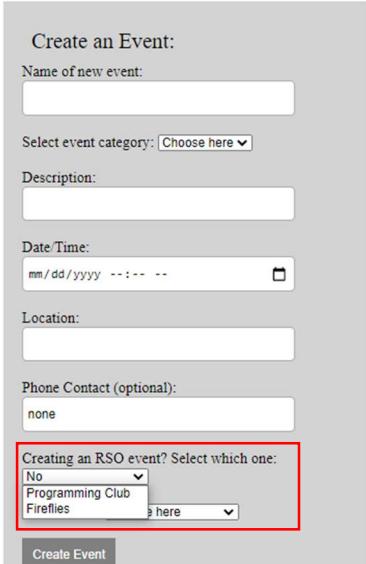
Number of Members: 3

13 Book Club	Book Club will meet once every 9 weeks to discuss ...	Angelica Longo	54612	4
14 Spanish Club	The Spanish Club serves to expand the study of the...	Adriana Kennedy	1232	6

Advanced Features

It is not possible to create events for other RSOs. Each admin can only select from a list of their own RSOs.

For example, Morgan is an Admin for the 'Fireflies' organization, and the 'Programming Club'...



College Events Request New RSO Join an RSO Create an Event Event Comments University Profiles Morgan Wall's Account Logout

Create an Event:

Name of new event:

Select event category:

Description:

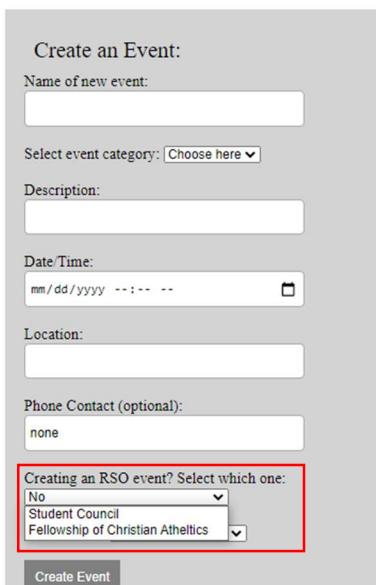
Date/Time:

Location:

Phone Contact (optional):

Creating an RSO event? Select which one:

...Elliot is an Admin for both the 'Student Council', and 'Fellowship of Christian Athletics' organizations



College Events Request New RSO Join an RSO Create an Event Event Comments University Profiles Elliot Bradford's Account Logout

Create an Event:

Name of new event:

Select event category:

Description:

Date/Time:

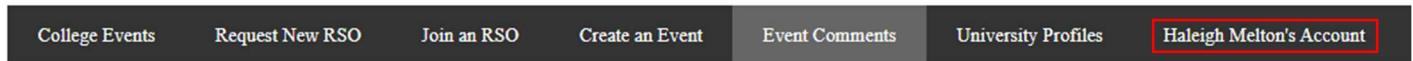
Location:

Phone Contact (optional):

Creating an RSO event? Select which one:

Users can leave comments on all listed events. However, users cannot edit or delete comments that they did not post.

For example...



Select An Event To Leave A Comment:

Select Event

Event Comments:

Tips To Get Better At Math!

Johanna Bauer 2021-04-16 10:46:36
Always wanted to get better at math haha

Haleigh Melton 2021-04-16 10:53:07
Same lol. Ill definitely be there!

First Track Meeting

Gretchen Castaneda 2021-04-16 10:48:59
I wont be able to go, but I hope you guys have a great time! :)

Conclusion & Observations

What are some desired features and functionalities that were not implemented?

- Including images within each University profile was a desired feature, however the implementation of storing the images was something that was not known how to do.
- The ability for users to rate events (1-5) seemed more like an optional feature and would have been implemented given more time.
- Event locations are not set from a map (such as Bing, Google, or open street map) given a name, latitude, and longitude. This functionality appears to have a more advanced setup that was not known how to do. The implementation of this would have taken more time to understand, so event locations are simply entered in by user via textbox.
- Social network integration (such as Facebook, Twitter, etc.) is not offered since applying this advance option seemed beyond current skill set.
- Ability to delete events that have already passed.

What are some problems that were encountered?

- The initial problem was taking the time to figure out how to set up a database and determining which platform would be the easiest and quickest to develop the project on.
- The learning curve of working with a new language was the main setback at times since many things that needed to be implemented was not initially known how to do.
- The design of the webpages was frequently changed based on the limitations of what was and was not known how to do. For example, there were issues with setting up properly working buttons, so the implementation of a dropdown menu was often used instead.

What things have been learned from the project?

- This was the first time working with the PHP programming language, so learning some of the built-in core functions and classes was definitely helpful.
- A stronger understanding of how to structure a web page (and its contents) using HTML was learned during the process of creating this event website. This also includes the ability to code PHP within HTML so that different parts of the content appeared a certain way.
- A better grasp on how to connect, select, insert, update, and delete to a MySQL database.