# **Group Report**

**College Event Website** 

Course Number: COP 4710

Section: 17

Term: Summer 2017

Group #: 26

**Group Member: Tuan Pham** 

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## **Project Description**

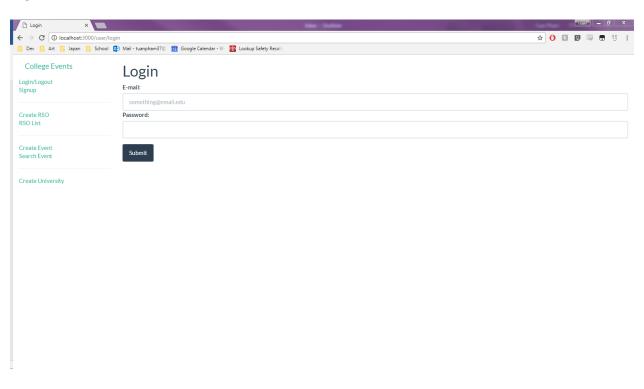
This project is a website for students to create and keep track of events surrounding universities. In addition, they will also be able to create and join RSO's who are the groups that organizes the events. The data powering the website is stored on a database and should be accessible to multiple, concurrent users from universities around the country. The project demonstrates a real-world example of database usage in a way that is relevant to us students.

### **GUI**

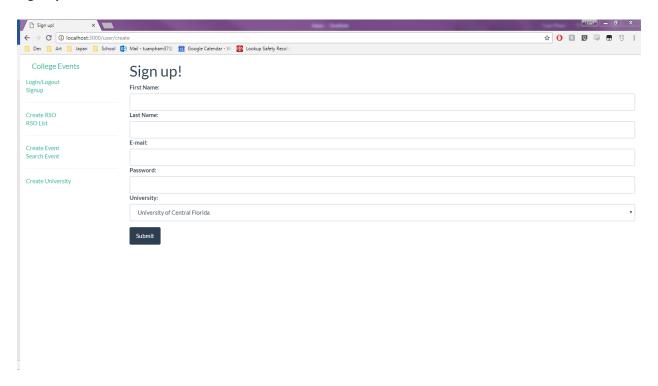
The front end was written using PUG templates to dynamically generate content and Bootstrap to easily create the forms. The back end was written using Node.js and Express because of previous experience with JavaScript. MySQL was the choice for DBMS.

### Feature Screenshots

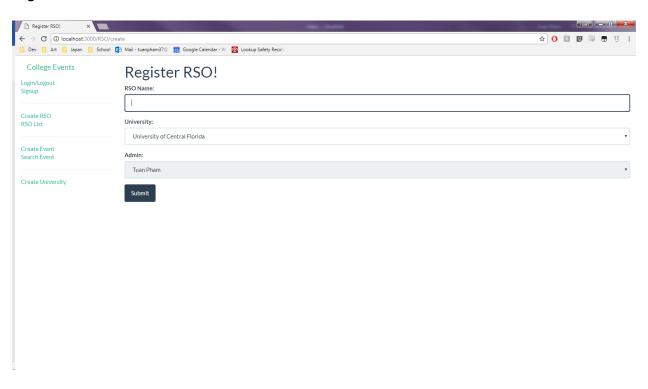
### Login:



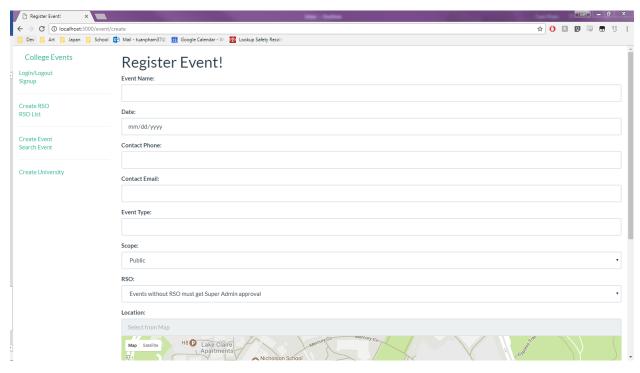
### Sign Up:

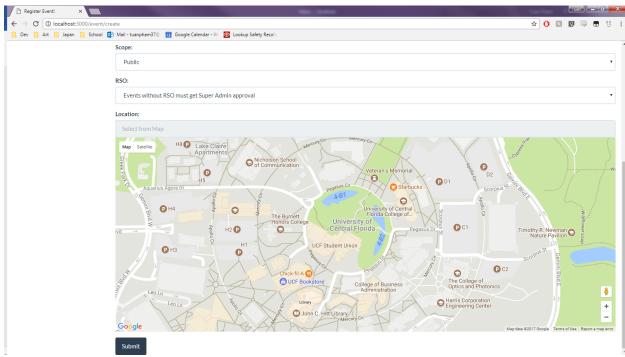


### **Register RSO:**



### **Register Event:**





Private

Public

#### **Event Search:**

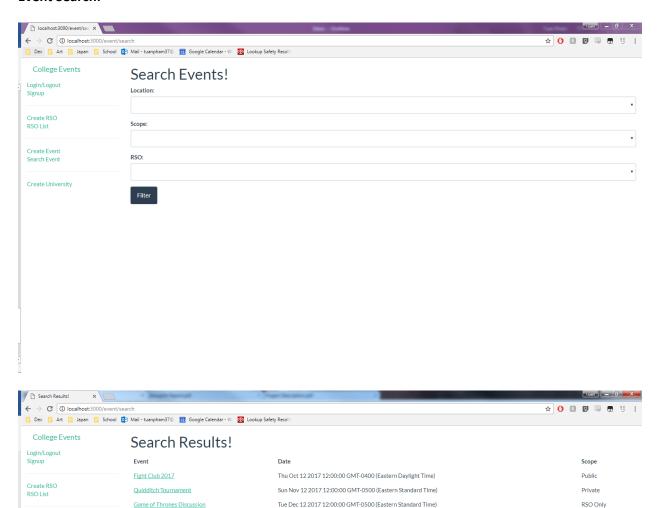
Create Event

Search Event

Create University

Injury Prevention Discussion

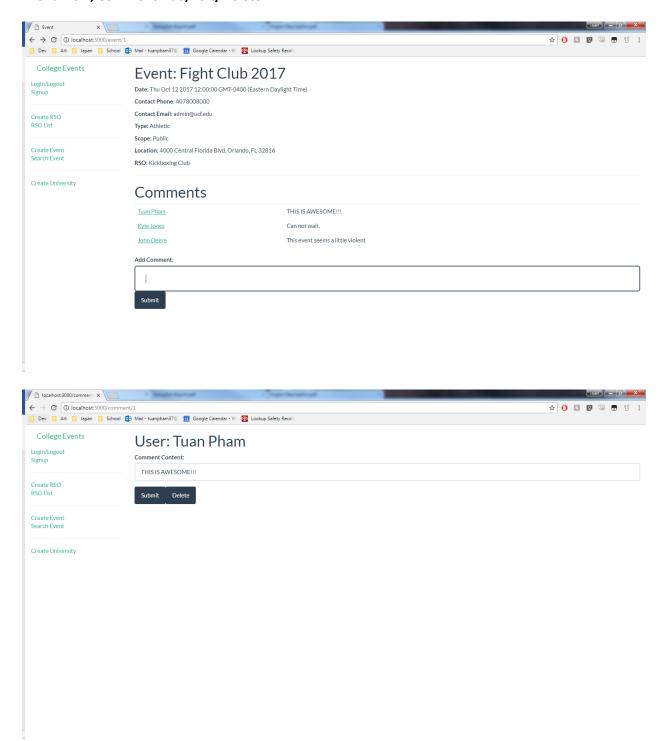
Member Recruiting Drive



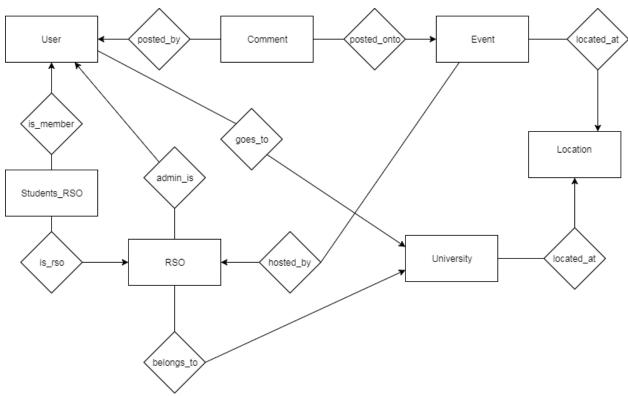
Tue Dec 12 2017 12:00:00 GMT-0500 (Eastern Standard Time)

Sun Dec 10 2017 12:00:00 GMT-0500 (Eastern Standard Time)

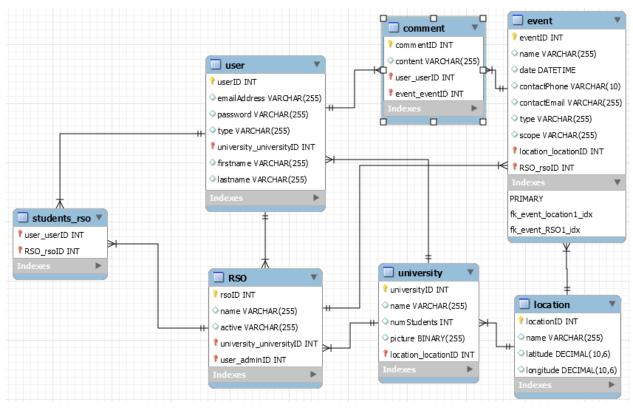
### **Event View, Comment Add/Edit/Delete:**



# ER-Model



### Relational Data Model



#### Sample Table Creation SQL (Rest of DB creation code in Project Folder):

```
DROP TABLE IF EXISTS `sitedb`.`university`;

CREATE TABLE IF NOT EXISTS `sitedb`.`university` (
   `universityID` INT NOT NULL AUTO_INCREMENT,
   `name` VARCHAR(255) NULL,
   `numStudents` INT NULL,
   `picture` BINARY(255) NULL,
   `location_locationID` INT NOT NULL,
   PRIMARY KEY (`universityID`, `location_locationID`),
   INDEX `fk_university_location1_idx` (`location_locationID` ASC),
   CONSTRAINT `fk_university_location1`
        FOREIGN KEY (`location_locationID`)
        REFERENCES `sitedb`.`location` (`locationID`)
        ON DELETE NO ACTION
        ON UPDATE NO ACTION)

ENGINE = InnoDB;
```

# Sample Data

## Location:

locationID	name	latitude	longitude
1	4000 Central Florida Blvd. Orlando. FL 32816	-81.200081	28.602427
2	Gainesville, FL 32611	-82.354932	29.644012

# University:

universityID	name	numStudents	picture	location_locationID
1	University of Central Florida	64318	NULL	1
2	University of Florida	52286	NULL	2

## User:

kyle@ucf.edu password Student 1 John Deere idksomethina Student 1 John Deere maxi@ucf.edu secure Student 1 Maxi Faxi lexi@ucf.edu autoaen Student 1 Lexi Steele aden@ucf.edu randv Student 1 Aden Nauven iake@ucf.edu randv Student 1 Jake Statefan iake@ucf.edu rawr Student 1 Jack Bauer luke@ucf.edu albhonse Student 1 Luke Caoe luke@ucf.edu okav Student 1 Luke Caoe in addeline@ucf lerandom Student 1 Addeline Zeus Ziek@uf.edu lelalela Student 2 Ziek Geek doof@uf.edu maloof Student 2 Doof Moof darrus@uf.edu maloof Student 2 Garrus Alterian vera@uf.edu blaze Student 2 Vera Wana loile@uf.edu nonon Student 2 Lucille Ball rena@uf.edu aveeavee Student 2 Soren Pham alfie@uf.edu aveeavee Student 2 Alfie Pham rena@uf.edu reasdfikl Student 2 Dovlan Johns lafele@uf.edu reasdfikl Student 2 Rena Le Valan@uf.edu reasdfikl Student 2 Dovlan Johns harlev@uf.edu xiied8X Student 2 Dovlan Johns adden@ucf.edu asdf Admin 1 Reaular Admin aiden@ucf.edu asdf Admin 1 Reaular Admin Javden kicker@uf.edu asdf Admin 1 Aiden Javden kicker@uf.edu asdf Admin 2 Kicker McLicker Super 1 Super Admin	userID	emailAddress	password	type	university_universityID	firstname	lastname
3iohn@ucf.eduidksomethinaStudent1JohnDeere4maxi@ucf.edusecureStudent1MaxiFaxi5lexi@ucf.eduautoaenStudent1LexiSteele6aden@ucf.edurandvStudent1AdenNauven7iake@ucf.eduLIVEStudent1JakeStatefan8iack@ucf.edurawrStudent1JackBauer9luke@ucf.edualbhonseStudent1LukeCaoe10erin@ucf.eduokavStudent1ErinCaoe11addeline@ucflerandomStudent1AddelineZeus12Ziek@uf.edulelalelaStudent2ZiekGeek13doof@uf.edumaloofStudent2DoofMoof14garrus@uf.eduareuseriousStudent2GarrusAlterian15vera@uf.edublazeStudent2VeraWana16lucille@uf.edunononStudent2LucilleBall17soren@uf.eduaveeaveeStudent2SorenPham18alfe@uf.edualbharettaStudent2AlfiePham19rena@uf.edureasdfiklStudent2AlfiePham20dvlan@uf.edureasdfiklStudent2PvlanJohns21harlev@uf.eduXiied8X <td>1</td> <td>tuan@ucf.edu</td> <td>asdf</td> <td>Student</td> <td>1</td> <td>Tuan</td> <td>Pham</td>	1	tuan@ucf.edu	asdf	Student	1	Tuan	Pham
Maxi Faxi lexi@ucf.edu secure Student 1 Lexi Steele delexi@ucf.edu autooen Student 1 Lexi Steele delexi@ucf.edu randv Student 1 Aden Nouven delexi@ucf.edu LIVE Student 1 Jake Statefari delexi@ucf.edu rawr Student 1 Jack Bauer luke@ucf.edu alohonse Student 1 Luke Cage derin@ucf.edu okav Student 1 Luke Cage derin@ucf.edu okav Student 1 Luke Cage delexi@ucf lerandom Student 1 Addeline Zeus Ziek.@uf.edu lelalela Student 2 Ziek. Geek doof@uf.edu maloof Student 2 Doof Moof darrus@uf.edu areuserious Student 2 Garrus Alterian vera@uf.edu blaze Student 2 Vera Wang lucille.@uf.edu nonon Student 2 Lucille Ball soren.@uf.edu aveeavee Student 2 Soren Pham alfie.@uf.edu aveeavee Student 2 Soren Pham alfie.@uf.edu aloharetta Student 2 Rena Le dvlan.@uf.edu reasdfikl Student 2 Dvlan Johns harlev.@uf.edu xiied8X Student 2 Dvlan Johns adden.@ucf.edu asdf Admin 1 Regular Admin 2 kicker.@uf.edu asdf Admin 1 Aiden Javden kicker.@uf.edu asdf Admin 2 Kicker McLicker super 1 Super Admin	2	kvle@ucf.edu	password	Student	1	Kvle	Jones
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aden@ucf.edu randv Student 1 Jake Statefan 1 Jake Statefan 1 Jake Statefan 1 Jake Statefan 1 Jack Bauer 1 Luke Cage 10 Luke@ucf.edu okav Student 1 Erin Cage 11 Addeline@ucf lerandom Student 1 Addeline Zeus 12 Ziek@uf.edu lelalela Student 2 Ziek Geek 13 doof@uf.edu maloof Student 2 Doof Moof 14 garrus@uf.edu areuserious Student 2 Garrus Alterian 15 vera@uf.edu blaze Student 2 Vera Wang 16 lucille@uf.edu nonon Student 2 Lucille Ball 17 soren@uf.edu aveeavee Student 2 Soren Pham 18 alfie@uf.edu alpharetta Student 2 Soren Pham 19 rena@uf.edu NOOOO Student 2 Rena Le 20 dvlan@uf.edu reasdfikl Student 2 Dvlan Johns 19 rana@uf.edu Xiied8X Student 2 Dvlan Johns 10 Adden 10 Admin 1 Regular Admin 1 Regular Admin 1 Aiden Javden 10 Admin 2 Kicker @uf.edu asdf Admin 1 Aiden Javden 10 Admin 2 Kicker McLicker 10 Super Admin 1 Super Admin 1	4	maxi@ucf.edu	secure	Student	1	Maxi	Faxi
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15         vera@uf.edu         blaze         Student         2         Vera         Wand           16         lucille@uf.edu         nonon         Student         2         Lucille         Ball           17         soren@uf.edu         aveeavee         Student         2         Soren         Pham           18         alfie@uf.edu         aloharetta         Student         2         Alfie         Pham           19         rena@uf.edu         NOOOO         Student         2         Rena         Le           20         dvlan@uf.edu         reasdfikl         Student         2         Dvlan         Johns           21         harlev@uf.edu         Xiied8X         Student         2         Harlev         Johns           22         admin@ucf.edu         asdf         Admin         1         Regular         Admin           23         aiden@ucf.edu         asdf         Admin         1         Aiden         Javden           24         kicker@uf.edu         asdf         Admin         2         Kicker         McLicker           25         super@ucf.edu         asdf         Super         1         Super         Admin	13	doof@uf.edu	maloof	Student	2	Doof	Moof
16         lucille@uf.edu         nonon         Student         2         Lucille         Ball           17         soren@uf.edu         aveeavee         Student         2         Soren         Pham           18         alfie@uf.edu         aloharetta         Student         2         Alfie         Pham           19         rena@uf.edu         NOOOO         Student         2         Rena         Le           20         dvlan@uf.edu         reasdfikl         Student         2         Dvlan         Johns           21         harlev@uf.edu         Xiied8X         Student         2         Harlev         Johns           22         admin@ucf.edu         asdf         Admin         1         Regular         Admin           23         aiden@ucf.edu         asdf         Admin         1         Aiden         Javden           24         kicker@uf.edu         asdf         Admin         2         Kicker         McLicker           25         super@ucf.edu         asdf         Super         1         Super         Admin	14	garrus@uf.edu	areuserious	Student	2	Garrus	Alterian
17         soren@uf.edu         aveeavee         Student         2         Soren         Pham           18         alfie@uf.edu         aloharetta         Student         2         Alfie         Pham           19         rena@uf.edu         NOOOO         Student         2         Rena         Le           20         dvlan@uf.edu         reasdfikl         Student         2         Dvlan         Johns           21         harlev@uf.edu         Xiied8X         Student         2         Harlev         Johns           22         admin@ucf.edu         asdf         Admin         1         Regular         Admin           23         aiden@ucf.edu         asdf         Admin         1         Aiden         Javden           24         kicker@uf.edu         asdf         Admin         2         Kicker         McLicker           25         super@ucf.edu         asdf         Super         1         Super         Admin	15	vera@uf.edu	blaze	Student	2	Vera	Wand
18         alfie@uf.edu         aloharetta         Student         2         Alfie         Pham           19         rena@uf.edu         NOOOO         Student         2         Rena         Le           20         dvlan@uf.edu         reasdfikl         Student         2         Dvlan         Johns           21         harlev@uf.edu         Xiied8X         Student         2         Harlev         Johns           22         admin@ucf.edu         asdf         Admin         1         Regular         Admin           23         aiden@ucf.edu         asdf         Admin         1         Aiden         Javden           24         kicker@uf.edu         asdf         Admin         2         Kicker         McLicker           25         super@ucf.edu         asdf         Super         1         Super         Admin	16	lucille@uf.edu	nonon	Student	2	Lucille	Ball
19         rena@uf,edu         NOOOO         Student         2         Rena         Le           20         dvlan@uf.edu         reasdfikl         Student         2         Dvlan         Johns           21         harlev@uf.edu         Xiied8X         Student         2         Harlev         Johns           22         admin@ucf.edu         asdf         Admin         1         Regular         Admin           23         aiden@ucf.edu         asdf         Admin         1         Aiden         Javden           24         kicker@uf.edu         asdf         Admin         2         Kicker         McLicker           25         super@ucf.edu         asdf         Super         1         Super         Admin	17	soren@uf.edu	aveeavee	Student	2	Soren	Pham
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22         admin@ucf.edu         asdf         Admin         1         Regular         Admin           23         aiden@ucf.edu         asdf         Admin         1         Aiden         Javden           24         kicker@uf.edu         asdf         Admin         2         Kicker         McLicker           25         super@ucf.edu         asdf         Super         1         Super         Admin	20	dvlan@uf.edu	reasdfikl	Student	2	Dvlan	Johns
23 aiden@ucf.edu asdf Admin 1 Aiden Javden 24 kicker@uf.edu asdf Admin 2 Kicker McLicker 25 super@ucf.edu asdf Super 1 Super Admin	21	harlev@uf.edu	Xiied8X	Student	2	Harlev	Johns
24 kicker@uf.edu asdf Admin 2 Kicker McLicker 25 super@ucf.edu asdf Super 1 Super Admin	22	admin@ucf.edu	asdf	Admin	1	Regular	Admin
25 super@ucf.edu asdf Super 1 Super Admin	23	aiden@ucf.edu	asdf	Admin	1	Aiden	Javden
	24	kicker@uf.edu	asdf	Admin	2	Kicker	McLicker
26 duper@ucf.edu asdf Super 2 Duper Admin	25	super@ucf.edu	asdf	Super	1	Super	Admin
	26	duper@ucf.edu	asdf	Super	2	Duper	Admin

### RSO:

rsoID	name	active	university_universityID	user_adminID
1	Kickboxina Club	active	1	22
2	Witchcraft and Wizardry Club	inactive	1	23
3	Book Club	active	2	24

## **Event:**

eventID	name	date	contactPhone	contactEmail	type	scope	location_locationID	RSO_rsoID
1	Fiaht Club 2017	2017-10-12 12:00:00	4078008000	admin@ucf.edu	Athletic	Public	1	1
2	Ouidditch Tournament	2017-11-12 12:00:00	8004119871	aiden@ucf.edu	Athletic	Private	1	2
3	Game of Thrones Discussion	2017-12-12 12:00:00	8080808080	kicker@uf.edu	Social	RSO Only	2	3
4	Injury Prevention Discussion	2017-12-12 12:00:00	4078008000	admin@ucf.edu	Social	Private	1	1
5	Member Recruitina Drive	2017-12-10 12:00:00	8004119871	aiden@ucf.edu	Social	Public	1	2

## Students\_rso:

user_userID	RSO_rsoID
1	1
2	1
3	1
4	1
5	1
6	2
7	2
8	2
13	3
14	3
15	3
16	3
17	3

### **Comment:**

commentID	content	user_userID	event_eventID
1	THIS IS AWESOME!!!	1	1
2	Can not wait.	2	1
3	This event seems a little violent	3	1
4	OUIDDITCH!!!	8	2

## **SQL Examples and Results**

Insert RSO, Student, Event, Comment SQL:

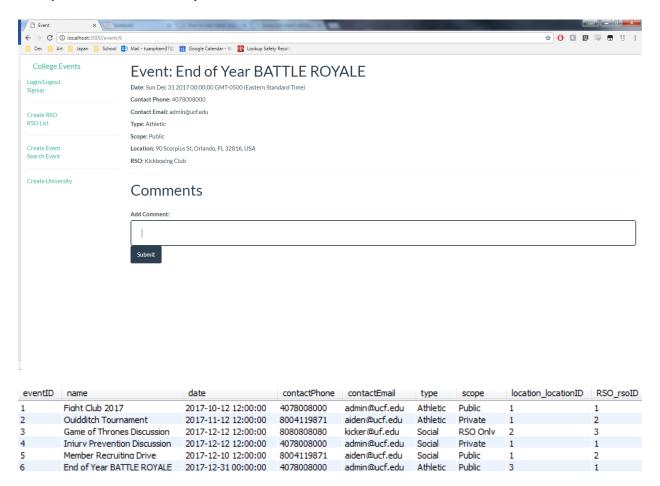
```
INSERT INTO rso
SET ?;
INSERT INTO user
SET ?;
INSERT INTO event
SET ?;
INSERT INTO comment
SET ?;
```

All of the insert SQL syntax followed the same template. Question marks were used in JavaScript code as placeholders for appropriate values. To use this syntax, JavaScript objects were created with attribute names matching the appropriate column name in MySQL. Most data validation was performed on the site itself to easier send appropriate errors back to users.

### **Example Event Insert JavaScript Code:**

```
var newEvent = {
  name: req.body.name,
  date: req.body.date,
  contactPhone: req.body.contactPhone,
  contactEmail: req.body.contactEmail,
  type: req.body.type,
  scope: req.body.scope,
  location_locationID: results[0][0].insertId,
    rso_rsoID: req.body.rso
}
let query = mysql.format('INSERT INTO event SET ?;', newEvent);
db.query(query, function(error, results2, fields) {
    res.redirect('/event/' + results2.insertId);
});
```

### **Example Insert Event GUI+MySQL Result:**



### **Insert/Delete Student in RSO SQL:**

```
--Insert

INSERT INTO students_rso

SET ?;
--Delete

DELETE FROM students_rso

WHERE user_userID = ?

AND RSO_rsoID = ?;
```

**Example Insert Student into RSO GUI+MySQL Result:** 

# **RSO: Kickboxing Club**

Active: active

University: University of Central Florida



user_userID	RSO_rsoID
1	1
2	1
3	1
4	1
5	1
6	2
7	2
8	2
13	3
14	3
15	3
16	3
17	3

# RSO: Kickboxing Club

Active: active

University: University of Central Florida



user_userID	RSO_rsoID
1	1
2	1
3	1
4	1
5	1
22	1
6	2
7	2
8	2
13	3
14	3
15	3
16	3
17	3

#### Search Events SQL+JavaScript:

```
var string = 'SELECT * FROM event';
var filters = [];
if (req.body.location !== '' || req.body.scope !== '' || req.body.rso !== '') {
    string += 'WHERE ';
    if (req.body.location !== '') {
        string += 'event.location_locationID = ?'
        filters.push(req.body.location);
    }
    if (req.body.scope !== '') {
        if (string.endsWith('?')) string += 'AND ';
        string += 'event.scope = ?'
        filters.push(req.body.scope);
    }
    if (req.body.rso !== '') {
        if (string.endsWith('?')) string += 'AND ';
        string += 'event.RSO_rsoID = ?'
        filters.push(req.body.rso);
    }
}
string += ';';
var query = mysql.format(string, filters);
db.query(query, function(error, results, fields) {
        res.render('event_list', {title: 'Search Results!', event_list: results, filters: filters});
});
```

Event searching was implemented by providing the user select boxes for Location, Scope and RSO to filter their results. The entire JavaScript code was included to convey how searches with all, some, or no filters were performed.

# **Example Search Events GUI+MySQL Results:**

# Search Events!



# Search Results!

Event	Date	Scope
Fight Club 2017	Thu Oct 12 2017 12:00:00 GMT-0400 (Eastern Daylight Time)	Public
Member Recruiting Drive	Sun Dec 10 2017 12:00:00 GMT-0500 (Eastern Standard Time)	Public
End of Year BATTLE ROYALE	Sun Dec 31 2017 00:00:00 GMT-0500 (Eastern Standard Time)	Public

eventID	name	date	contactPhone	contactEmail	type	scope	location_locationID	RSO_rsoID
1	Fiaht Club 2017	2017-10-12 12:00:00	4078008000	admin@ucf.edu	Athletic	Public	1	1
5	Member Recruitina Drive	2017-12-10 12:00:00	8004119871	aiden@ucf.edu	Social	Public	1	2
6	End of Year BATTLE ROYALE	2017-12-31 00:00:00	4078008000	admin@ucf.edu	<u>Athl</u> etic	Public	3	1

### **Event Details and Comments SQL:**

```
--Event Details
SELECT *,e.name as eventName, r.name as rsoName, l.name as locName
FROM event e, rso r, location l
WHERE eventID = ?
AND e.rso_rsoID = r.rsoID
AND e.location_locationID = l.locationID;
--Comments
SELECT *
FROM comment,user
WHERE event_eventID = ?
AND userID = user_userID;
```

### **Example Event Details GUI+MySQL Results:**

## Event: Fight Club 2017

Date: Thu Oct 12 2017 12:00:00 GMT-0400 (Eastern Daylight Time)

Contact Phone: 4078008000 Contact Email: admin@ucf.edu

Type: Athletic

Scope: Public

Location: 4000 Central Florida Blvd, Orlando, FL 32816

RSO: Kickboxing Club

### Comments

Tuan Pham THIS IS AWESOME!!!

Kyle Jones Can not wait.

<u>John Deere</u> This event seems a little violent

eventID	name	date	contactPhone	contactEmail	type	scope	location_locationID	RSO_rsoID	rsoID	name	active	university_universityID	user_adminID	locationID
1	Fiaht Club 2017	2017-10-12 12:00:00	4078008000	admin@ucf.edu	Athletic	Public	1	1	1	Kickboxina Club	active	1	22	1

name	latitude	longitude	eventName	rsoName	locName
4000 Central Florida Blvd, Orlando, FL 32816	-81,200081	28.602427	Fiaht Club 2017	Kickboxina Club	4000 Central Florida Blvd, Orlando, FL 32816

commentID	content	user_userID	event_eventID	userID	emailAddress	password	type	university_universityID	firstname	lastname
1	THIS IS AWESOME!!!	1	1	1	tuan@ucf.edu	asdf	Student	1	Tuan	Pham
2	Can not wait.	2	1	2	kvle@ucf.edu	password	Student	1	Kvle	Jones
3	This event seems a little violent	3	1	3	iohn@ucf.edu	idksomethina	Student	1	John	Deere

Comments are clickable which takes you to a comment details page. If you made the comment, then you have the option to update or delete your comment.

### **Update, Delete Comment SQL:**

```
--Delete

DELETE FROM comment

WHERE commentID = ?;

--Update

UPDATE comment

SET content = ?

WHERE commentID = ?;
```

### **Example Comment Details GUI:**

## **User: Tuan Pham**

Comment Content:

THIS IS AWESOME!!!

Submit Delete

### **Example Delete Comments GUI Result:**

# Event: Fight Club 2017

Date: Thu Oct 12 2017 12:00:00 GMT-0400 (Eastern Daylight Time)
Contact Phone: 4078008000
Contact Email: admin@ucf.edu
Type: Athletic
Scope: Public
Location: 4000 Central Florida Blvd, Orlando, FL 32816
RSO: Kickboxing Club

## Comments

Kyle Jones Can not wait.

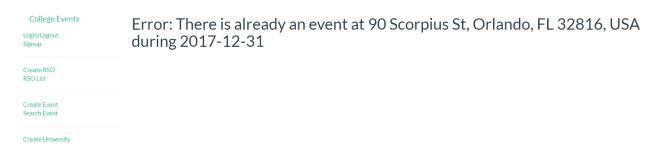
John Deere This event seems a little violent

### Constraints

### **Events with Overlapping Location and Dates:**

```
SELECT COUNT(*) as count
FROM event e, location l
WHERE e.location_locationID = l.locationID
AND e.date = ?
AND l.name = ?;
```

If count is not zero, then there is a conflicting event.

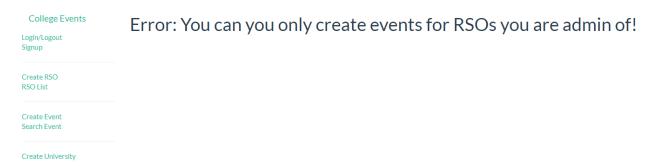


#### **Incorrect Admin for RSO:**

```
SELECT user_adminID
FROM rso
WHERE rsoID = ?;
```

The admin ID is obtained from the RSO entered in the previous form.

It is then checked against the ID of the logged in user.



### **Active/Inactive RSOs:**

```
SELECT COUNT(*) as count
FROM students_rso
WHERE RSO_rsoID = ?;
```

After insert/delete from students\_rso, the count for an RSO's members is obtained.

If the count changes from five to four, the active column is changed from 'active' to 'inactive' and vice-

versa.



# RSO: Kickboxing Club RSO: Kickboxing Club

Active: active

University: University of Central Florida



Active: inactive

University: University of Central Florida



### Installation Instructions

### MySQL Setup:

- 1) Install MySQL
- 2) Run MySQL Service
- Navigate to path: \\*FOLDER CONTAINING PROJECT\* \college-event-app\db\model
- 4) Run createSiteDB.sql (will drop tables inside siteDB schema)
- 5) Run seedSiteDB.sql (Some sample data necessary for forms)

### Web Server Setup:

- 1) Install Node.js
- 2) Open Command Prompt
- 3) Navigate to path: \\*FOLDER CONTAINING PROJECT\* \college-event-app
- 4) Run command 'npm install'
- 5) Run command 'npm start'
- 6) Open web browser
- 7) Navigate to: http://localhost:3000
- 8) (Optional) Login to one of the Sample Logins:

Account Type:	Email	Password			
Student	tuan@ucf.edu	asdf			
Admin	admin@ucf.edu	asdf			
Super Admin	super@ucf.edu	asdf			

### Conclusion/Observation

A few features that were left out due to time constraints were security features for logging in, feeds from university sites and some social media integration. One possibility was to use social media API's for logging in and comments. Although that may not be a good idea for students who don't have social media or wish to separate it from their school life. One of the major hurdles was the initial website and database design. A longer and more detailed planning phase would have streamlined the project. However, there were many things I learned along the way that I would not have been able to foresee before attempting this project. The biggest issue was learning web dev from a very minimal web dev background. Additional MySQL and even general SQL knowledge would have been very helpful. Most of the validation was performed on the site itself but more SQL knowledge could have added it to the DBMS instead. In the end, I was able to implement the features and constraints requested due to proper scheduling and utilizing technologies I was more comfortable with.