

# Group Report: College Event Website

COP 4710, Spring 2021

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## Project Description

The goal of this project is to create a website that allows students from different universities to create and host events for their communities. These events can be private, public, or specific to specific RSOs that are created through the application. There are three tiers of users on the website: normal users, who can join/create rsos and join events available to them; admins, who can create events for RSOs that they are the admin of; and super-admins, who control the university.

Though the requirements for this project stated for users to be able to edit their comments and to give a rating to their university, unfortunately those are not present in this final product. Also, passwords are encrypted to ensure user privacy is unaffected.

## Technical Specifications

The web-based application was created using a MySQLi backend with InnoDB to support functional dependencies. PHP is used for server-user connections, and the front-end was created using a combination of HTML, CSS, and JS.

The project was created and tested locally using WAMP, which is a Windows based application that automatically integrates Apache, MySQLi, and PHP for easy and quick development. Firefox and Microsoft Edge were both used to validate front-end visuals.

# GUI

*Here are screenshots from most of the available pages on the website, following an example of the header for the pages.*

## College Event Website

[Home](#) [My Events](#) [My RSOs](#) [Events](#) [RSOs](#) [Create An Event](#) [Request An Event](#) [Make An RSO](#) [Log Out](#)

### Sign Up

USERNAME

PASSWORD

REPEAT PASSWORD

UNIVERSITY NAME

Sign Up

### Login

Username

Password

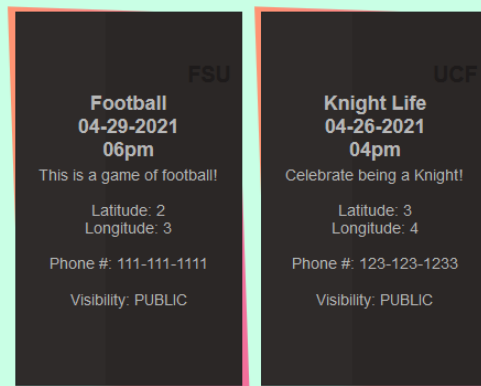
Login

### Your Events

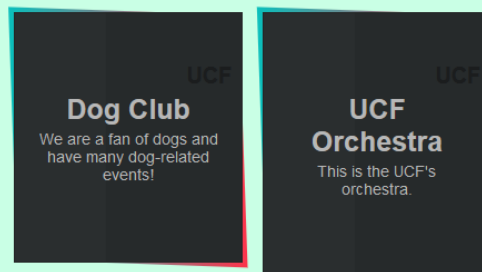
### Your RSOs



### All Available Events



### All RSOs for UCF



### Create Events for Your RSO

#### GENERAL INFO

NO ACTIVE RSOs

EVENT NAME

EVENT DESCRIPTION

CONTACT #: 123-456-7890

### All Pending Events for Your University

### Request An Event

#### GENERAL INFO

EVENT NAME

EVENT DESCRIPTION

CONTACT #: 123-456-7890

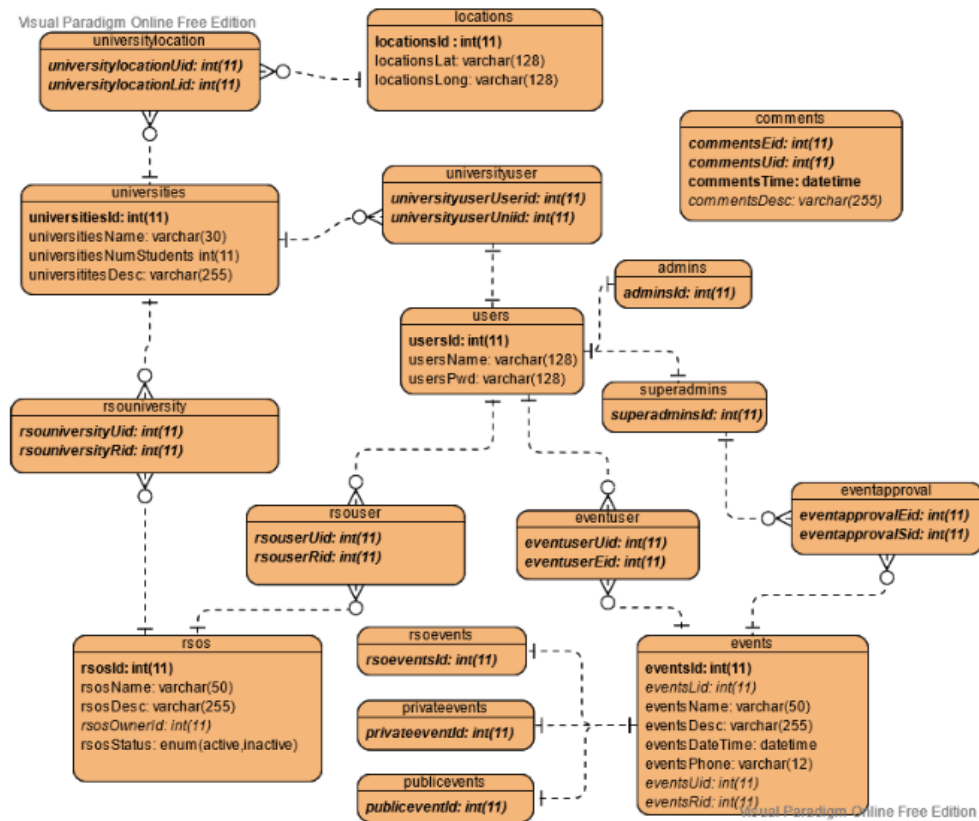
### Make An RSO

RSO NAME

RSO DESCRIPTION

Submit

## ER Diagram



# Triggers

Updating RSOs on insert or takeaway:

```
DELIMITER $$
-- trigger setting rso to active if 5 or more people are in the group. adds admin privileges to owner of the rso (regardless of activity)
CREATE TRIGGER RSOSStatusUpdateA AFTER INSERT ON rsouser
FOR EACH ROW BEGIN
  IF ((SELECT COUNT(*) FROM rsouser M WHERE M.rsouserRid = NEW.rsouserRid) > 4)
  THEN
    UPDATE rsos SET rsosStatus = "active" WHERE rsosId = NEW.rsouserRid;
  END IF;
-- Adds admin if another one doesnt already exist for rso that is added into and user isnt already an admin
IF (((SELECT COUNT(*) FROM rsos R WHERE R.rsosId = NEW.rsouserRid AND R.rsosOwnerId = NEW.rsouserUid) > 0)
AND ((SELECT COUNT(*) FROM admins A WHERE A.adminsId = NEW.rsouserUid) < 1))
THEN
  INSERT INTO admins(adminsId) VALUES(NEW.rsouserUid);
END IF;
END;$$

-- sets rso to inactive if less than 5 people are in the group, and removes admin if necessary
-- MOST LIKELY WON'T WORK SINCE MYSQL APPARENTLY DOESN'T LIKE IT WHEN YOU TRY TO ACTIVATE A TRIGGER ON A CASCADING DELETE
CREATE TRIGGER RSOSStatusUpdateI AFTER DELETE ON rsouser
FOR EACH ROW BEGIN
  IF ((SELECT COUNT(*) FROM rsouser M WHERE M.rsouserRid = OLD.rsouserRid) < 5)
  THEN
    UPDATE rsos SET rsosStatus = "inactive" WHERE rsosId = OLD.rsouserRid;
    IF ((SELECT COUNT(*) FROM rsos N WHERE N.rsosOwnerId = OLD.rsouserUid) < 1)
    THEN
      DELETE FROM admins A WHERE A.adminsId = OLD.rsouserUid;
    END IF;
  END IF;
END IF;
END;$$
```

Updating university count on insert/removal:

```
-- adds number of students to university
CREATE TRIGGER UniversityStudentCntA AFTER INSERT ON universityuser
FOR EACH ROW BEGIN
  UPDATE universities SET universitiesNumStudents = universitiesNumStudents + 1 WHERE universitiesId = NEW.universityuserUniId;
END;$$

-- Subtracts number of students from university
-- MOST LIKELY WON'T WORK SINCE MYSQL APPARENTLY DOESN'T LIKE IT WHEN YOU TRY TO ACTIVATE A TRIGGER ON A CASCADING DELETE
CREATE TRIGGER UniversityStudentCntS AFTER DELETE ON universityuser
FOR EACH ROW BEGIN
  UPDATE universities SET universitiesNumStudents = universitiesNumStudents - 1 WHERE universitiesId = OLD.universityuserUniId;
END;$$

DELIMITER -
```

## Sample Data

*Locations are given in the format: Location = (locationLat, locationLong)*

- Universities
  - UCF – Location = (1,2); Description = “This is UCF’s Description!”
  - FSU – Location = (2,3); Description = “This is FSU’s Description!”
- Students
  - UCF
    - michael – UCF superadmin
    - 7 other students (“javi”, “ben”, “josh”, “nick”, “jordan”)
  - FSU
    - fsusuper – FSU superadmin
    - 2 other students (“lisa”, “edward”)
- RSO
  - UCF
    - Name: “Dog Club”; Desc “We are a fan of dogs and have many dog-related events”; Admin: “javi”; Users: (“javi”, “ben”, “nick”, “jordan”)
- Events
  - FSU
    - Name “Football”; Desc “This is a game of football!”; Location (2,3); Phone: 111-111-1111; Date/Time: 4-29-2021 @ 6pm; Visibility: Public; Users: (“lisa”, “michael”)
- Comments
  - Football
    - Commenter: lisa; Comment = “I hope FSU wins!”
    - Commenter: michael; Comment = “I hope UCF wins!”



## SQL and Front-End Examples

For this section, both the web-application and the SQL statements are given to show the functionality of the project. SQL statements are given as the implemented PHP queries.

### New RSO

Creating new RSO "UCF Orchestra" as user from UCF.

SQL:

```
// Creates RSO
$sql = "INSERT INTO rsos (rsosName, rsosDesc, rsosOwnerId) VALUES (?, ?, ?)";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt, $sql)) {
    header("location: ../makerso.php?error=bad_stmt");
    exit();
}

mysqli_stmt_bind_param($stmt, "ssi", $rsoname, $rsodesc, $usersid);
mysqli_stmt_execute($stmt);
mysqli_stmt_close($stmt);

// Adds connection between RSO and university
$sql = "INSERT INTO rsouniversity (rsouniversityUid, rsouniversityRid) VALUES (?, ?)";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt, $sql)) {
    header("location: ../makerso.php?error=bad_stmt");
    exit();
}

$rsoid = rsoExists($conn, $rsoname);
$rsoid = $rsoid['rsosId'];

mysqli_stmt_bind_param($stmt, "ii", $ownersuniid, $rsoid);
mysqli_stmt_execute($stmt);
mysqli_stmt_close($stmt);
```

Database Before:

	rsosId	rsosName	rsosDesc	rsosOwnerId	rsosStatus
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	1	Dog Club	We are a fan of dogs and have many dog-related eve...	3	inactive

	rsouniversityUid	rsouniversityRid
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="Delete"/>	1	1

Database After:

		rsosId	rsosName	rsosDesc	rsosOwnerId	rsosStatus
<input type="checkbox"/>	Edit  Copy  Delete	1	Dog Club	We are a fan of dogs and have many dog-related eve...	3	inactive
<input type="checkbox"/>	Edit  Copy  Delete	2	UCF Orchestra	This is the UCF's orchestra.	1	inactive

		rsouniversityUid	rsouniversityRid
<input type="checkbox"/>	Edit  Copy  Delete	1	1
<input type="checkbox"/>	Edit  Copy  Delete	1	2

Front-End Before:

## College Event Website

- Home
- My Events
- My RSOs
- Events
- RSOs
- Pending Events
- Request An Event
- Make An RSO
- Log Out

### Make An RSO

Front-End After:

### Make An RSO

RSO successfully made. Admin privileges granted.  
Once **4 more users** join the RSO, you will be able to create events for it.

## New Student in RSO

Adding student "nick" as user to "UCF Orchestra".

SQL:

```
$sql = "INSERT INTO rsouser (rsouserRid, rsouserUid) VALUES (?,?);";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt,$sql)) {
    echo "BAD STMT joinRSO";
    exit();
}
mysqli_stmt_bind_param($stmt, "ii", $rsosId, $usersId);
mysqli_stmt_execute($stmt);
mysqli_stmt_close($stmt);
```

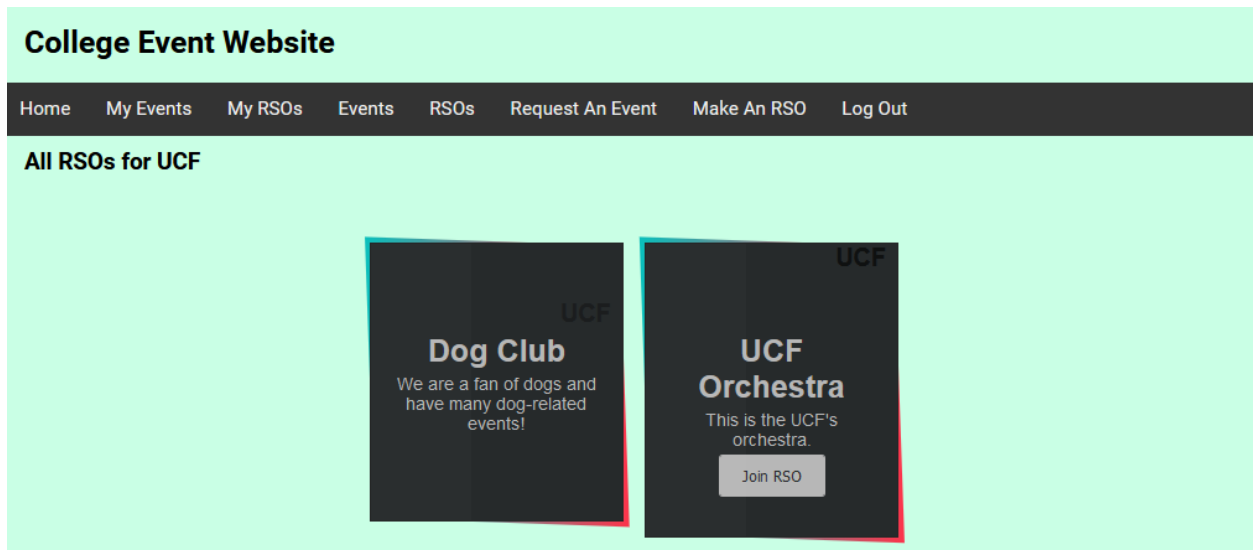
Database Before:

	rsouserUid	rsouserRid
<input type="checkbox"/> Edit Copy Delete	3	1
<input type="checkbox"/> Edit Copy Delete	4	1
<input type="checkbox"/> Edit Copy Delete	8	1
<input type="checkbox"/> Edit Copy Delete	9	1
<input type="checkbox"/> Edit Copy Delete	1	2

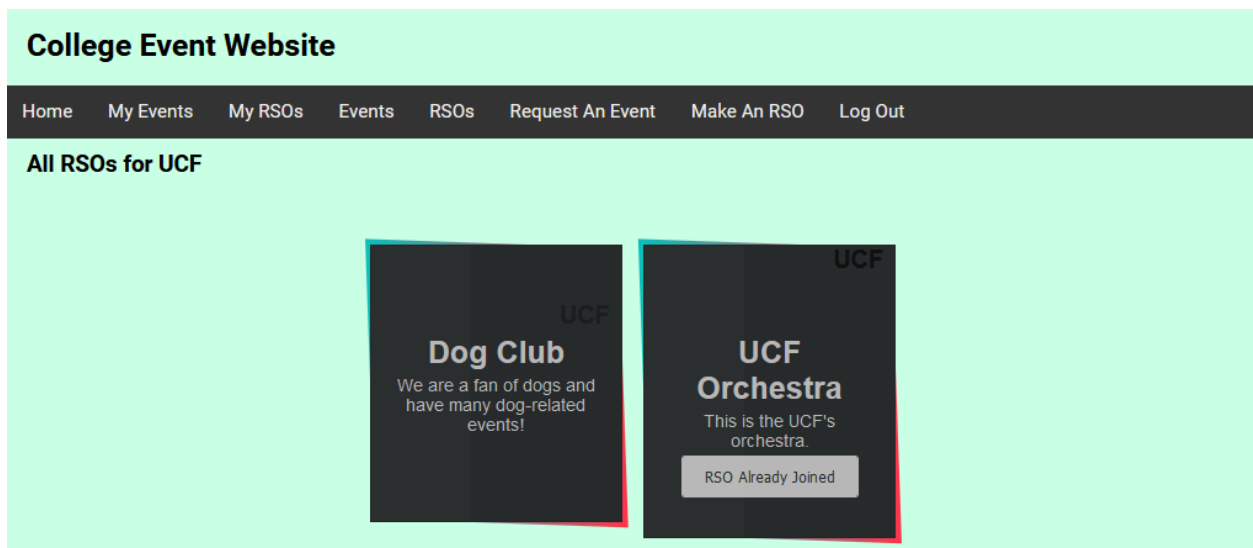
Database After:

	rsouserUid	rsouserRid
<input type="checkbox"/> Edit Copy Delete	3	1
<input type="checkbox"/> Edit Copy Delete	4	1
<input type="checkbox"/> Edit Copy Delete	8	1
<input type="checkbox"/> Edit Copy Delete	9	1
<input type="checkbox"/> Edit Copy Delete	1	2
<input type="checkbox"/> Edit Copy Delete	8	2

Front-End Before:



Front-End After:



## Requesting New Event

*Requesting new public Event "Knight Life" as "jordan".*

SQL:

```
$sql = "INSERT INTO events (eventsName, eventsDesc, eventsPhone, eventsDateTime, eventsLid, eventsRid, eventsUid)
VALUES (?, ?, ?, ?, ?, ?, ?)";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt, $sql)) {
    echo "BAD STMT createRSEvent";
    exit();
}

mysqli_stmt_bind_param($stmt, "ssssiii", $eventname, $eventdesc, $eventphone, $eventdatetime, $locid, $rsoid, $uniid);
mysqli_stmt_execute($stmt);
mysqli_stmt_close($stmt);
```

```
if ($eventtype === "private") {
    $sql = "INSERT INTO privateevents (privateeventsId) VALUES (?);";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        echo "BAD STMT createRSEvent";
        exit();
    }
    mysqli_stmt_bind_param($stmt, "i", $eventid);
    mysqli_stmt_execute($stmt);
    mysqli_stmt_close($stmt);
}
else if ($eventtype === "public"){
    $sql = "INSERT INTO publicevents (publiceventsId) VALUES (?);";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        echo "BAD STMT createRSEvent";
        exit();
    }
    mysqli_stmt_bind_param($stmt, "i", $eventid);
    mysqli_stmt_execute($stmt);
    mysqli_stmt_close($stmt);
}
else {
    $sql = "INSERT INTO rsoevents (rsoeventsId) VALUES (?);";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        echo "BAD STMT createRSEvent";
        exit();
    }
    mysqli_stmt_bind_param($stmt, "i", $eventid);
    mysqli_stmt_execute($stmt);
    mysqli_stmt_close($stmt);
}
```

```

$sql = "INSERT INTO eventapproval (eventapprovalEid, eventapprovalSid) VALUES (?,?);";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt,$sql)) {
    header("location: ../requestevent.php?error=bad_stmt");
    exit();
}
mysqli_stmt_bind_param($stmt, "ii", $eventid, $said);
mysqli_stmt_execute($stmt);
mysqli_stmt_close($stmt);

```

Database Before:

←T→	eventsId	eventsLid	eventsName	eventsDesc	eventsDateTime	eventsPhone	eventsUid	eventsRid
<input type="checkbox"/> Edit Copy Delete	1	2	Football	This is a game of football!	2021-04-29 18:00:00	111-111-1111	2	NULL

←T→	publiceventsId
<input type="checkbox"/> Edit Copy Delete	1

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

SELECT \* FROM `eventapproval` WHERE 1

Database After:

←T→	eventsId	eventsLid	eventsName	eventsDesc	eventsDateTime	eventsPhone	eventsUid	eventsRid
<input type="checkbox"/> Edit Copy Delete	1	2	Football	This is a game of football!	2021-04-29 18:00:00	111-111-1111	2	NULL
<input type="checkbox"/> Edit Copy Delete	2	3	Knight Life	Celebrate being a Knight!	2021-04-26 16:00:00	123-123-1233	1	NULL

←T→	publiceventsId
<input type="checkbox"/> Edit Copy Delete	1
<input type="checkbox"/> Edit Copy Delete	2

←T→	eventapprovalEid	eventapprovalSid
<input type="checkbox"/> Edit Copy Delete	2	1

## Front-End Before:

**GENERAL INFO**  
 Knight Life

Celebrate being a Knight!

123-123-1233

**DATE AND TIME**  
 04 / 26 / 2021

4 PM

**LOCATION**  
 3 4

**EVENT TYPE**  
 Public

Submit

## Front-End After:

**College Event Website**

[Home](#)
[My Events](#)
[My RSOs](#)
[Events](#)
[RSOs](#)
[Request An Event](#)
[Make An RSO](#)
[Log Out](#)

**Request An Event**

Event request submitted. Waiting for super-admin approval.

**GENERAL INFO**  
 EVENT NAME

EVENT DESCRIPTION

CONTACT #: 123-456-7890

## Accepting New Event

Accepting “Knight Life” as “michael”.

SQL:

```
// Removes approval entries from database
$sql = "DELETE FROM eventapproval WHERE eventapprovalEid = ?;";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt,$sql)) {
    echo json_encode(array('status' => 'err', 'statusText' => 'Database error in verifySuperAdmin.'));
    exit();
}
mysqli_stmt_bind_param($stmt, "i", $eventid);
mysqli_stmt_execute($stmt);
mysqli_stmt_close($stmt);
echo json_encode(array('status' => 'ok'));
```

Database Before:

	eventapprovalEid	eventapprovalSid
<input type="checkbox"/>	2	1

Database After:

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
SELECT * FROM `eventapproval` WHERE 1
```

Front-End Before:

### College Event Website

- Home
- My Events
- My RSOs
- Events
- RSOs
- Create An Event
- Pending Events
- Request An Event
- Make An RSO
- Log Out

#### All Pending Events for Your University

UCF

**Knight Life**  
04-26-2021  
04pm

Celebrate being a Knight!

Latitude: 3  
Longitude: 4

Phone #: 123-123-1233

Visibility: PUBLIC

ACCEPT

DENY



Front-End After:

## College Event Website

[Home](#) [My Events](#) [My RSOs](#) [Events](#) [RSOs](#) [Create An Event](#) [Pending Events](#) [Request An Event](#) [Make An RSO](#) [Log Out](#)

### All Pending Events for Your University

## New Comment

Create new comment on "Knight Life" as "jordan".

SQL:

```
$sql = "INSERT INTO comments (commentsEid, commentsUid, commentsDesc) VALUES (?, ?, ?);";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt, $sql)) {
    echo "BAD STMT makeComment";
    return FALSE;
}
mysqli_stmt_bind_param($stmt, "iis", $eventid, $userid, $desc);
mysqli_stmt_execute($stmt);
mysqli_stmt_close($stmt);
```

Database Before:

	commentsEid	commentsUid	commentsTime	commentsDesc
<input type="checkbox"/> Edit Copy Delete	1	1	2021-04-19 14:52:21	I hope UCF wins!
<input type="checkbox"/> Edit Copy Delete	1	6	2021-04-19 14:51:41	I hope FSU wins!

Database After:

	commentsEid	commentsUid	commentsTime	commentsDesc
<input type="checkbox"/> Edit Copy Delete	1	1	2021-04-19 14:52:21	I hope UCF wins!
<input type="checkbox"/> Edit Copy Delete	1	6	2021-04-19 14:51:41	I hope FSU wins!
<input type="checkbox"/> Edit Copy Delete	2	9	2021-04-19 16:36:24	I'm really excited to go to this!!!

Front-End Before:

College Event Website
Home My Events My R

Create New Comment

I'm really excited to go to this!!!

Submit

Knight Life

04-26-2021

04pm

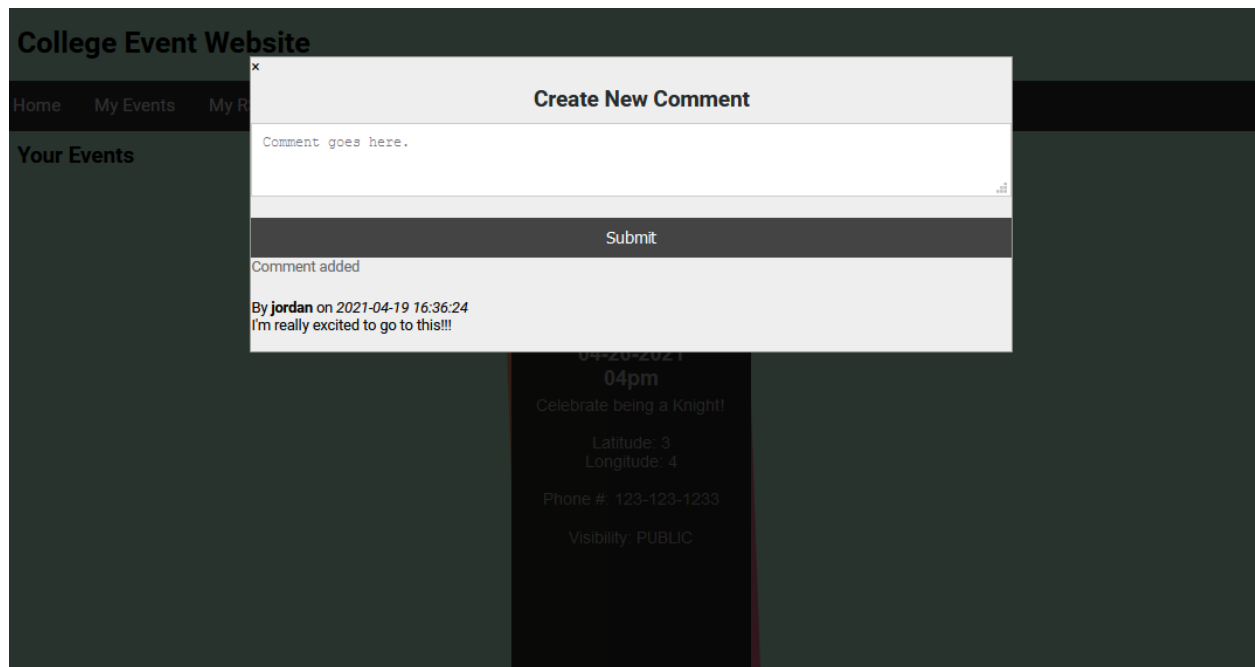
Celebrate being a Knight!

Latitude: 3  
Longitude: 4

Phone #: 123-123-1233

Visibility: PUBLIC

Front-End After:



## View All Available Events

This will get all events that are available to a user. In this case, the user is "lisa".

SQL:

```
$sql = "(SELECT * FROM events WHERE (eventsId IN (SELECT publiceventsId FROM publicevents))
      AND (eventsId NOT IN (SELECT eventapprovalEid FROM eventapproval)))
UNION
(SELECT * FROM events WHERE (eventsId IN (SELECT privateeventsId FROM privateevents)) AND eventsUid = ?
      AND (eventsId NOT IN (SELECT eventapprovalEid FROM eventapproval)))
UNION
(SELECT * FROM events WHERE (eventsRid IN (SELECT rsouserRid FROM rsouser WHERE rsouserUid = ?)))";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt,$sql)) {
    echo "BAD STMT getAvailableDisplayEvents";
    exit();
}

mysqli_stmt_bind_param($stmt, "ii", $uniid, $userid);
mysqli_stmt_execute($stmt);
$resultData = mysqli_stmt_get_result($stmt);
mysqli_stmt_close($stmt);
```

Database Result:

Showing rows 0 - 1 (2 total, Query took 0.3124 seconds.)

```
(SELECT * FROM events WHERE (eventsId IN (SELECT publiceventsId FROM publicevents)) AND (eventsId NOT IN (SELECT
eventapprovalEid FROM eventapproval))) UNION (SELECT * FROM events WHERE (eventsId IN (SELECT privateeventsId FROM
privateevents)) AND eventsUid = 2 AND (eventsId NOT IN (SELECT eventapprovalEid FROM eventapproval))) UNION (SELECT *
FROM events WHERE (eventsRid IN (SELECT rsouserRid FROM rsouser WHERE rsouserUid = 6)))
```

[Edit inline] [Edit] [Create PHP code]

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

+ Options

eventsId	eventsLid	eventsName	eventsDesc	eventsDateTime	eventsPhone	eventsUid	eventsRid
1	2	Football	This is a game of football!	2021-04-29 18:00:00	111-111-1111	2	NULL
2	3	Knight Life	Celebrate being a Knight!	2021-04-26 16:00:00	123-123-1233	1	NULL

Front-End Result:

College Event Website

[Home](#)
[My Events](#)
[My RSOs](#)
[Events](#)
[RSOs](#)
[Request An Event](#)
[Make An RSO](#)
[Log Out](#)

All Available Events

FSU

Football

04-29-2021

06pm

This is a game of football!

Latitude: 2

Longitude: 3

Phone #: 111-111-1111

Visibility: PUBLIC

UCF

Knight Life

04-26-2021

04pm

Celebrate being a Knight!

Latitude: 3

Longitude: 4

Phone #: 123-123-1233

Visibility: PUBLIC

## View All User Events

This will get all events a user is in. In this case, the user is "lisa".

SQL:

```
$sql = "SELECT * FROM events WHERE (eventsId IN (SELECT eventuserEid FROM eventuser WHERE eventuserUid = ? ))
AND (eventsId NOT IN (SELECT eventapprovalEid FROM eventapproval));";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt,$sql)) {
    echo "BAD STMT getAvailableUserEvents";
    exit();
}

mysqli_stmt_bind_param($stmt, "i", $userid);
mysqli_stmt_execute($stmt);
$resultData = mysqli_stmt_get_result($stmt);
mysqli_stmt_close($stmt);
```

Database Result:

Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

```
SELECT * FROM events WHERE (eventsId IN (SELECT eventuserEid FROM eventuser WHERE eventuserUid = 6 )) AND (eventsId NOT
IN (SELECT eventapprovalEid FROM eventapproval))
```

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP code\]](#) [\[Refresh\]](#)

☐ Show all | Number of rows: 25 | Filter rows:

+ Options

	eventsId	eventsLid	eventsName	eventsDesc	eventsDateTime	eventsPhone	eventsUid	eventsRid
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1	2	Football	This is a game of football!	2021-04-29 18:00:00	111-111-1111	2	NULL

Front-End Result:

College Event Website

[Home](#)
[My Events](#)
[My RSOs](#)
[Events](#)
[RSOs](#)
[Request An Event](#)
[Make An RSO](#)
[Log Out](#)

Your Events

FSU

Football

04-29-2021

06pm

This is a game of football!

Latitude: 2  
Longitude: 3

Phone #: 111-111-1111

Visibility: PUBLIC

localhost/cond710/my\_events.php

# Constraint Enforcement

*For this section, front-end warnings are shown for when the following actions take place.*

## Overlapping Events

Original Event:

<input type="checkbox"/>	Edit	Copy	Delete	2	3	Knight Life	Celebrate being a Knight!	2021-04-26 16:00:00	123-123-1233	1	NULL
--------------------------	------	------	--------	---	---	-------------	---------------------------	---------------------	--------------	---	------

Attempted New Event:

**GENERAL INFO**  
 Bad Event

This event should not process due to being at the same time and place as "Knight Life"

234-234-2345

**DATE AND TIME**  
 04 / 26 / 2021

4 PM

**LOCATION**  
 3 4

**EVENT TYPE**  
 Private

Submit

Result:

**Request An Event**

Event already exists on 2021-04-26 16:00:00 at LATITUDE= 3, LONGITUDE= 4.

**GENERAL INFO**  
 EVENT NAME

EVENT DESCRIPTION

CONTACT #: 123-456-7890

**DATE AND TIME**  
 mm / dd / yyyy

## User (Other Than Appropriate Admin) Creating Event for RSO

If a user was using the site properly, this should not happen. However, if a malicious user finds an event's id and try to create an event for it, then the following will happen. Let's say "javi" was a malicious user attempting to create an event for "UCF Orchestra". (In case of confusion, at this point "Dog Club" is already active, where activation can be seen below.)

### Malicious Viewer View:



### Result:

College Event Website

[Home](#)
[My Events](#)
[My RSOs](#)
[Events](#)
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[Create An Event](#)
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[Make An RSO](#)
[Log Out](#)

Create Events for Your RSO

You do not have permission to create an event for this RSO.

GENERAL INFO

SELECT RSO...

EVENT NAME

EVENT DESCRIPTION

CONTACT #: 123-456-7890

DATE AND TIME

mm / dd / yyyy

## RSO Becoming Active

Though no active warning shows up, once the 5<sup>th</sup> user joins the RSO, the admin will have the option available to them for picking the RSO in “Create An Event”. In this case, “josh” will join “Dog Club”, thus activating it.

Database View Before:

	rsosId	rsosName	rsosDesc	rsosOwnerId	rsosStatus
<input type="checkbox"/> Edit Copy Delete	1	Dog Club	We are a fan of dogs and have many dog-related eve...	3	inactive
<input type="checkbox"/> Edit Copy Delete	2	UCF Orchestra	This is the UCF's orchestra.	1	inactive

Database View After:

	rsosId	rsosName	rsosDesc	rsosOwnerId	rsosStatus
<input type="checkbox"/> Edit Copy Delete	1	Dog Club	We are a fan of dogs and have many dog-related eve...	3	active
<input type="checkbox"/> Edit Copy Delete	2	UCF Orchestra	This is the UCF's orchestra.	1	inactive

Admin View Before:

**College Event Website**

[Home](#)
[My Events](#)
[My RSOs](#)
[Events](#)
[RSOs](#)
[Create An Event](#)
[Request An Event](#)
[Make An RSO](#)
[Log Out](#)

**Create Events for Your RSO**

**GENERAL INFO**  
 NO ACTIVE RSOs  
 NO ACTIVE RSOs  
 EVENT NAME  
 EVENT DESCRIPTION  
 CONTACT #: 123-456-7890  
**DATE AND TIME**  
 mm / dd / yyyy  
 12 AM

Admin View After:

**College Event Website**

[Home](#)
[My Events](#)
[My RSOs](#)
[Events](#)
[RSOs](#)
[Create An Event](#)
[Request An Event](#)
[Make An RSO](#)
[Log Out](#)

**Create Events for Your RSO**

**GENERAL INFO**  
 Dog Club  
 Dog Club  
 SELECT RSO...  
 EVENT DESCRIPTION  
 CONTACT #: 123-456-7890  
**DATE AND TIME**  
 mm / dd / yyyy  
 12 AM



## RSO Becoming Inactive

Opposite to before, if there becomes 4 or less people, the effects of being able to create events is reversed. Here, “josh” will leave “Dog Club”.

Database View Before:

		rsosId	rsosName	rsosDesc	rsosOwnerId	rsosStatus
<input type="checkbox"/>	Edit  Copy  Delete	1	Dog Club	We are a fan of dogs and have many dog-related eve...	3	active
<input type="checkbox"/>	Edit  Copy  Delete	2	UCF Orchestra	This is the UCF's orchestra.	1	inactive

Database View After:

		rsosId	rsosName	rsosDesc	rsosOwnerId	rsosStatus
<input type="checkbox"/>	Edit  Copy  Delete	1	Dog Club	We are a fan of dogs and have many dog-related eve...	3	inactive
<input type="checkbox"/>	Edit  Copy  Delete	2	UCF Orchestra	This is the UCF's orchestra.	1	inactive

Admin View Before:

### College Event Website

- Home
- My Events
- My RSOs
- Events
- RSOs
- Create An Event
- Request An Event
- Make An RSO
- Log Out

#### Create Events for Your RSO

##### GENERAL INFO

SELECT RSO...

SELECT RSO...
Dog Club
SELECT RSO...

EVENT DESCRIPTION

Admin View After:

### College Event Website

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#### Create Events for Your RSO

##### GENERAL INFO

NO ACTIVE RSOs

NO ACTIVE RSOs
NO ACTIVE RSOs

EVENT NAME

## Conclusion

The database, on simple queries, appears to give results back quickly ( $<0.001s$ ). The most complicated query, the one that returns all events that are visible to a user, takes around 0.3s, which is relatively slow. Overall, this is an efficient database.

In terms of security, there are some holes that exist within the implementation that could allow for some malicious activity, but user privacy (their passwords) are encrypted using PHP's standard encryption. This means that user credentials are secure.

This project was difficult for me, as it is the first real website that I have developed in 4 years. Even then, the websites that I created before were only static and had no real client-server interactions, so that increased the complexity further. I also have only had a small amount of database experience in the form of creating a bot that used MySQL for a couple of items. Overall, my expertise did not lie within this topic, so it felt daunting to do.

This does mean I learned a lot, however. I have much more experience with both JS and PHP now, as well as a knowledge of website/database security and user management. I learned how to style pages easier with CSS and understand better how web-based applications work in general. I am extremely satisfied with the work that I put in this project.