

Team Project Report

COP 4710 Fall 2018

Application:College Event Website

Project Title and Group Information

Title: College Event Website

Course Information: COP4720-18 Fall 2018

Group Information: Group 7

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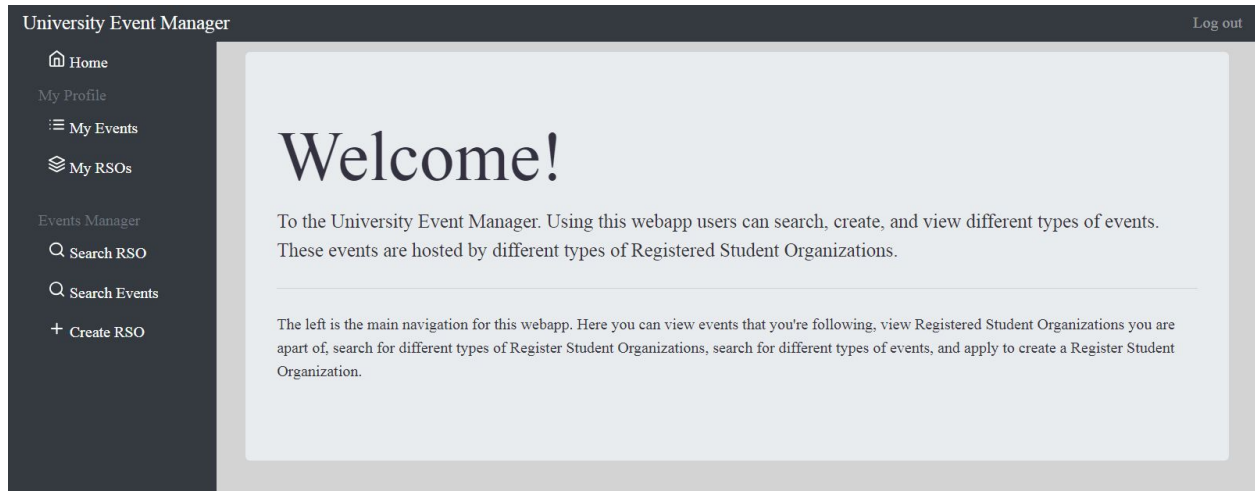
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Gui

- Platform: Local host, Amazon AWS, Bootstrap
- Languages: HTML, PHP, Javascript, CSS, JSON
- DBMS: MySQL, made remote through Amazon AWS

Screenshots:

Homepage



Create Event

The screenshot shows the 'Create Event' form within the 'University Event Manager' web application. The header is dark grey with 'Home' on the left and 'Log Out' on the right. The form is centered on a light grey background. It contains the following fields and controls: 'Event Title' (text input with 'Resume Workshop' entered), 'University' (dropdown menu with 'Choose...' selected), 'Event Type' (dropdown menu with 'Choose...' selected), 'Event Group' (dropdown menu with 'Choose...' selected), 'Start Time' (datetime picker showing '10/10/2020 10:00 AM'), 'Duration In 1/5m' (text input), 'Date' (text input with 'mm-dd-yyyy' placeholder), 'Contact Phone' (text input), 'Contact Email' (text input), 'Address' (text input), 'RSO' (text input), and 'Event Description' (text area). The form is styled with a clean, modern aesthetic using white inputs and a light grey background.

Create RSO

RSO Title

Tech Club

University

Choose...

RSO Type

Choose...

RSO Description

Enter in the 5 students who will be creating this RSO

Admin Email

Enter Email

Student 2 Email

Enter Email

Student 3 Email

Enter Email

Student 4 Email

Enter Email

Student 5 Email

Enter Email

Create

Login

University Event Manager

Create

Username

Enter Username

Password

Password

Login

Forgot Password

Create Account

Create an Account

Username

Enter Username

Password

Enter Password

Confirm Password

Confirm Password

Email

Enter Email

Fill out the following if you are a super admin:

University Name

Name of University

University Description

Describe your University

University Address

University Address

Number of Students

Number of Students

Create New User

RSO Page

Home Create Event Log Out

RSO NAME HERE

RSO DESCRIPTION HERE. This is a template for a simple marketing or informational website. It includes a large callout called a jumbotron and three supporting pieces of content. Use it as a starting point to create something more unique.

Join RSO »

Event Title

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Etiam porta sem malesuada magna mollis euismod. Donec sed odio dui.

View details »

Event Title

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Etiam porta sem malesuada magna mollis euismod. Donec sed odio dui.

View details »

Event Title

Donec sed odio dui. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Vestibulum id ligula porta felis euismod semper. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus.

View details »

Search Event

Home

Log Out

Event Keyword

Resume Workshop

University

Choose...

Event Type

Choose...

Event Group

Choose...

Search

#	Header	Header	Header	Header
1,001	Lorem	ipsum	dolor	sit
1,002	amet	consectetur	adipiscing	elit

Search RSO

Home

Log Out

RSO Keyword

Chess Club

University

Choose...

RSO Type

Choose...

Search

#	Header	Header	Header	Header
1,001	Lorem	ipsum	dolor	sit
1,002	amet	consectetur	adipiscing	elit

Conflicting Event Error

Event conflict with time and location

OK

Event Title

Java Web Development

University

University of Central Florida

Event Type

Tech Talks

Event Group

Private

Start Time

0800

Length of Event (min)

75

Date

11/28/2018

Contact Phone

123-456-7890

Contact Email

example@email.com

Address

123 example st

RSO Name

RSO1

Event Description

Learn Java EE 7 ;).

Events Page With Comments

EVENT NAME HERE

RSO Name Goes Here

EVENT DESCRIPTION HERE. This is a template for a simple marketing or informational website. It includes a large callout called a jumbotron and three supporting pieces of content. Use it as a starting point to create something more unique.

Event Type **Social**

Event University **University of Central Florida**

Event Date **11/20/18**

Start Time **0700**

Event Length **60 mins**

Event Address **Address**

Contact Email **email@email.com**

Comment

Submit Comment

Comments



User Name

Comment Goes Here. Lorem Ipsum is simply dummy text of the pr make but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.



User Name

Comment Goes Here. Lorem Ipsum is simply dummy text of the pr make but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.



User Name

Comment Goes Here. Lorem Ipsum is simply dummy text of the pr make but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

User Not Admin Error

User is not Admin of RSO!

OK

Event Title

Resume Workshop

University

University of Central Florida

Event Type

Career

Event Group

Private

Start Time

1100

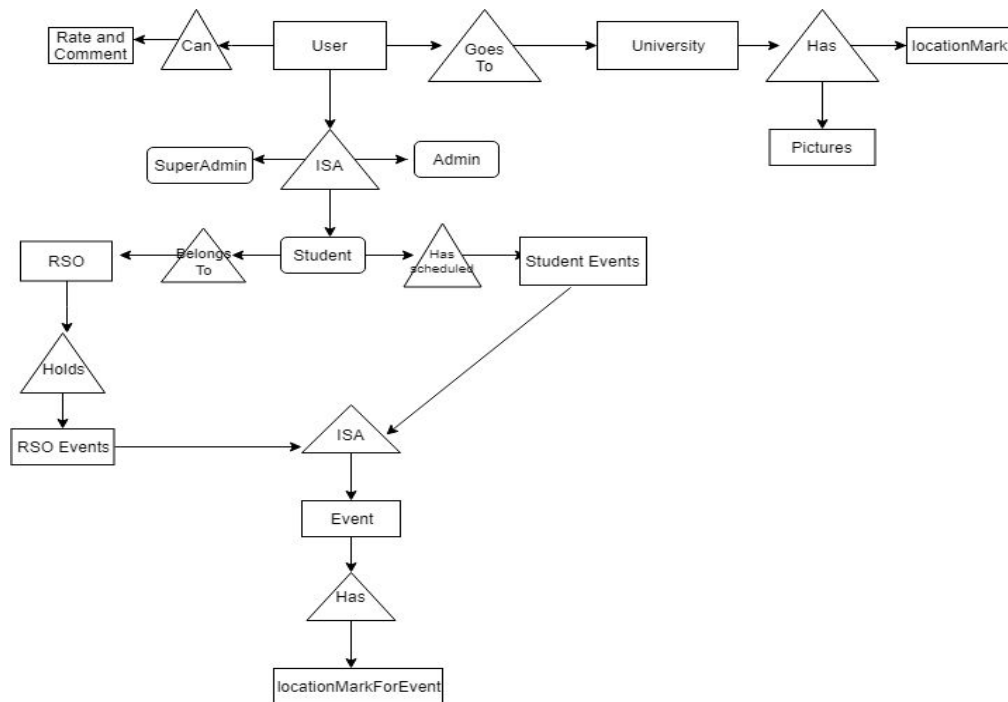
Length of Event (min)

60

Date

12/05/2018

ER Model



Triggers

Rso becomes inactive with less than 5 students

```

1 use Scheduler;
2
3 DELIMITER $$
4 CREATE TRIGGER makeInactive
5     AFTER UPDATE ON rso
6     FOR EACH ROW
7     begin
8         update rso
9         set isActive =0
10        where numStudents <5;
11    end;
12
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```

Rso becomes active with at least 5 students

```

1 use Scheduler;
2
3 DELIMITER $$
4 CREATE TRIGGER makeActive
5     AFTER UPDATE ON rso
6     FOR EACH ROW
7     begin
8         update rso
9         set isActive =1
10        where numStudents >=5;
11    end;
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99

```

Relational Data Model



Insert a new RSO

```
// Create RSO by adding it to the rso table and making it act
$title = $_POST['rsoTitle'];
$university = $_POST['rsoUniversity'];
$description = $_POST['rsoDescription'];

$sql = "INSERT INTO rso(rsoName, numStudents, isActive)
VALUES(?, ?, ?)";

$stmt = mysqli_prepare($connect, $sql);
$stmt->bind_param('sii', $title, 5, 1);
$stmt->execute();

$stmt->free_result();
$stmt->close();
```

Results:

	rsoID	rsoName	rsoType	numStudents	isActive	rsoDescription	durationOfEvent
0	rso1	public	80	NULL	NULL	NULL	NULL
1	rso2	public	80	NULL	NULL	NULL	NULL
2	rso3	public	5	1	NULL	NULL	NULL
3		Social	5	1	This is a test	NULL	NULL
4	1	Choose...	5	1	22	NULL	NULL
5	jasonRso	Fundraising	5	1	jason test	NULL	NULL
6	JTest	Fundraising	5	1	s	NULL	NULL
7	w	Tech Talks	5	1	w	NULL	NULL
8	more	Career	5	1	s	NULL	NULL
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Insert a new student into an existing RSO

```
require_once 'session.php';
require('connect.php');

// Receive rsoID from front end.
$rso = json_decode(GET["rsoID"]);

// Insert into rsoStudents table
$sql = "INSERT INTO rsoStudents(rsoID, StudentID)
VALUES($rso, $_SESSION['logged-in-user'])";

$result = mysqli_query($connect, $sql);

// Update numstudents in rso.
$updateNumStudents = "UPDATE rso
SET numStudents = numStudents + 1
WHERE rsoID = $rso";

$update = mysqli_query($connect, $sql);
```

SQL Statement:

Results:

	rsoStudentID	rsoID	StudentID
0	0	35	
1	1	35	
2	0	27	
*	NULL	NULL	NULL

Insert a new event

Sql statement:

```
$query = "INSERT INTO events('eventName', 'uniID', 'eventDescription')
VALUES (?, ?, ?)";

$stmt = mysqli_prepare($connect, $query);
$stmt->bind_param('sis', $title, $uid, $description);
$stmt->execute();

$stmt->free_result();
$stmt->close();
```

Result:

eventDescription	timeOfEvent	dateOfEvent	contactEmailAddress	contactPhone	rsoID	rsoName	durationOfEvent	address
NULL	00:00:12	NULL	contact@email.com	NULL	NULL	NULL	NULL	NULL
q	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
an event	08:00:00	2018-11-28	contact@email.com	9998887777	7	w	120	NULL
example public c...	08:00:00	2018-11-28	conflict@example.com	1234567890	2	rso 2	60	123 Ex...
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

New comment being added to the database

Sql statement:

```
// put into table
$sql = "INSERT INTO commentsAndRating(userID, commentText, eventID, rating)
VALUES(?, ?, ?, ?)";

$query = mysqli_prepare($connect, $sql);
$query->bind_param('isii', $_SESSION['logged-in-user'], $comment, $event, $rating);
$query->execute();

$query->free_result();
$query->close();
```

Result:

commentID	commentText	rating	eventID
12	This event was amazing!	5	1
14	This event was uneventful.	2	1
15	This event was uneventful.	2	1

SQL statements of interest

Make rso inactive

```
1 use Scheduler;
2
3 DELIMITER $$
4 CREATE TRIGGER makeInactive
5 AFTER UPDATE ON rso
6 FOR EACH ROW
7 begin
8 update rso
9 set isActive =0
10 where numStudents <5;
11 end;
```

Make rso active trigger

```
• use Scheduler;  
  
DELIMITER $$  
• CREATE TRIGGER makeActive  
  AFTER UPDATE ON rso  
  FOR EACH ROW  
  begin  
    update rso  
    set isActive =1  
    where numStudents >=5;  
  end;
```

Result in database

Result is shown below

Overlapping location and time error

Event conflict with time and location

OK

Event Title

Java Web Development

University

University of Central Florida

Event Type

Tech Talks

Event Group

Private

Start Time

0800

Length of Event (min)

75

Date

11/28/2018

Contact Phone

123-456-7890

Contact Email

example@email.com

Address

123 example st

RSO Name

RSO1

Event Description

Learn Java EE 7 ;).

It's conflicting with:

[illegible]

An admin who is not the admin of the rso attempts to create an event for that r

Trigger functions to make an rso inactive/active was shown above

Here is the delete query:

```
<?php
require_once 'session.php';
require('connect.php');

// Get rsoID from frontend
$rsoId = json_decode(GET["rsoId"]);

// upon button press, numStudents-- in rso
$sql = "UPDATE rso
        SET numStudents = numStudents - 1
        WHERE rsoID = $rsoId";

$result = mysqli_query($connect, $sql);

// delete row from rsoStudents table
$query = "DELETE FROM rsoStudents
        WHERE rsoID = $rsoId
        AND StudentID = $_SESSION['logged-in-user']";

$delete = mysqli_query($connect, $query);
mysqli_close($connect);
```

Here is a rso with at least 5 students:

rsoID	rsoName	rsoType	numStudents	isActive	rsoDescription	durationOfEvent
0	rso1	public	80	NULL	NULL	NULL
1	rso2	public	80	NULL	NULL	NULL
2	rso3	public	5	1	NULL	NULL
3		Social	5	1	This is a test	NULL
4	1	Choose...	5	1	22	NULL
5	jasonRso	Fundraising	5	1	jason test	NULL
6	JTest	Fundraising	5	1	s	NULL

Here is what happens when a student is removed, it becomes inactive

5	jasonRso	Fundraising	5	1	jason test	NULL
6	JTest	Fundraising	4	0	s	NULL
7	...	Test Table	5	1	...	NULL

Advanced Features

- It has a responsive design, is formatted on any device.
- The database is remote, can be accessed remotely from any computer

Conclusion/Observation

-A variety of different queries were run on a variety of tables and the query timing has a range of 0.032-0.048 seconds. Most queries tend to run around 0.046 seconds.

-For suggested index:

Currently we have clustered indexes but nonclustered would work as well if it is done alphabetically by the name of things such as eventName, rsoName, studentName

For the tables that involve range selection queries we would use B-Trees, and the tables that involve equality selection we would use hash data structure.

Desired features/functionality

- The passwords are hashed

Problems encountered

- Delegating tasks better. If we planned everything out properly in the beginning it would have been easier to get everything done on time.
- Had trouble setting up database at first
- Most of us were also inexperienced with using PHP