



CPSC 431 - Database & Applications

SportsTeam

CPSC 431-01

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Mission

Scenario: You are a PHP and MySQL database application developer tasked with defining, implementing, deploying, and delivering a 3-tier software solution that keeps track information related to running a sports team.

Using all the information we learned in CPSC 431, we were design and implement this scenario. This final project will reflect the design requirements listed on the final project and allow us to gain hands- on experience with database systems.

In taking this project the professor gave us requirements in how to develop this application. Taking a look at the requirements we thought of a plan in how to develop this.



CONFIGURATION VIEW

Configurations

- XAMPP / WAMP Server which includes:
 1. phpMyAdmin Version information: 4.8.0
 2. PHP version 5.6.35
 3. Apache Web Server for local hosting
- PHPMailer - A full-featured email creation and transfer class for PHP
- Github for version control
- Discord for communication
- Microsoft Visio 2016 for diagrams
- Microsoft Publisher for Poster





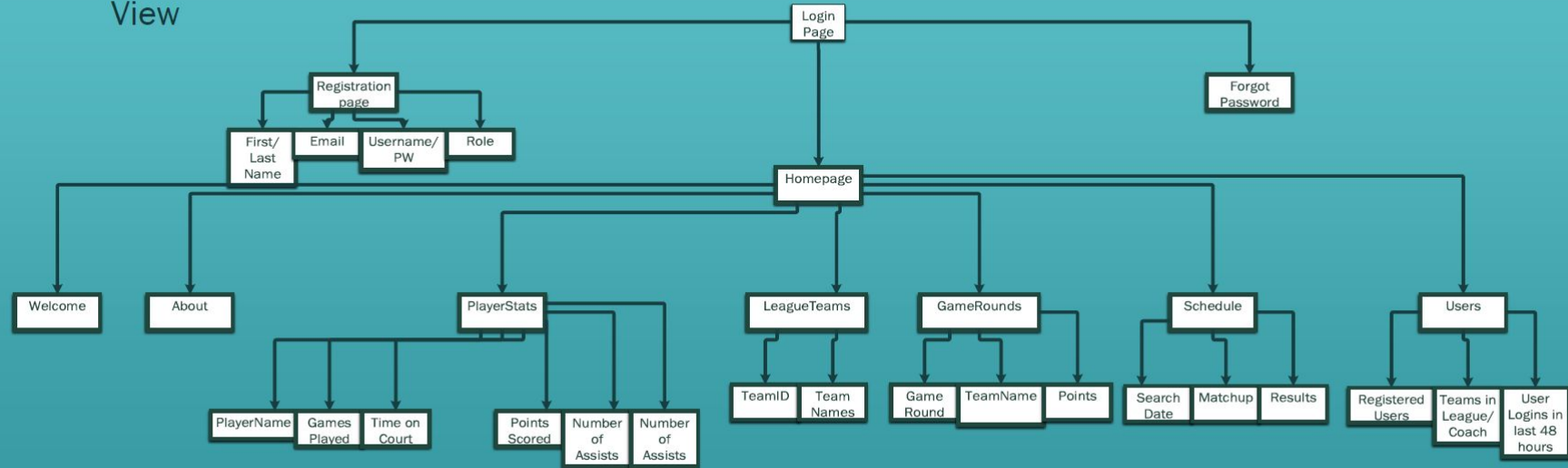
Overview

- Users will start at the homepage. Users can select whether they want to log in using an existing account or create a new one using our registration page.
- Users will have their passwords encrypted with a hash for security.
- Depending on the role assigned, users will see different things on their dashboard upon logging in.
- Log-in Records are logged and information about the user will appear on the dashboard
- Selecting the statistics page will direct users to all of the league's teams/stats
- Users can log out when finished and exit the page.



REQUIREMENT VIEW

Requirements View



Use Cases

1. What teams are in the League?
2. What teams did CSUF play this last season?
3. How many games did Player X play in?
4. What are the total points Player X scored?
5. What are the stats for Player X?
6. What Game was played on date X?
7. What was the game score on date X?
8. Who is the coach for team X?
9. How many game rounds were played last season?
10. What is the game bracket list for last season?
11. Who has an account and what is their role?
12. Who has logged in the past 48 hours?
13. Can the exec. manager change the user role?



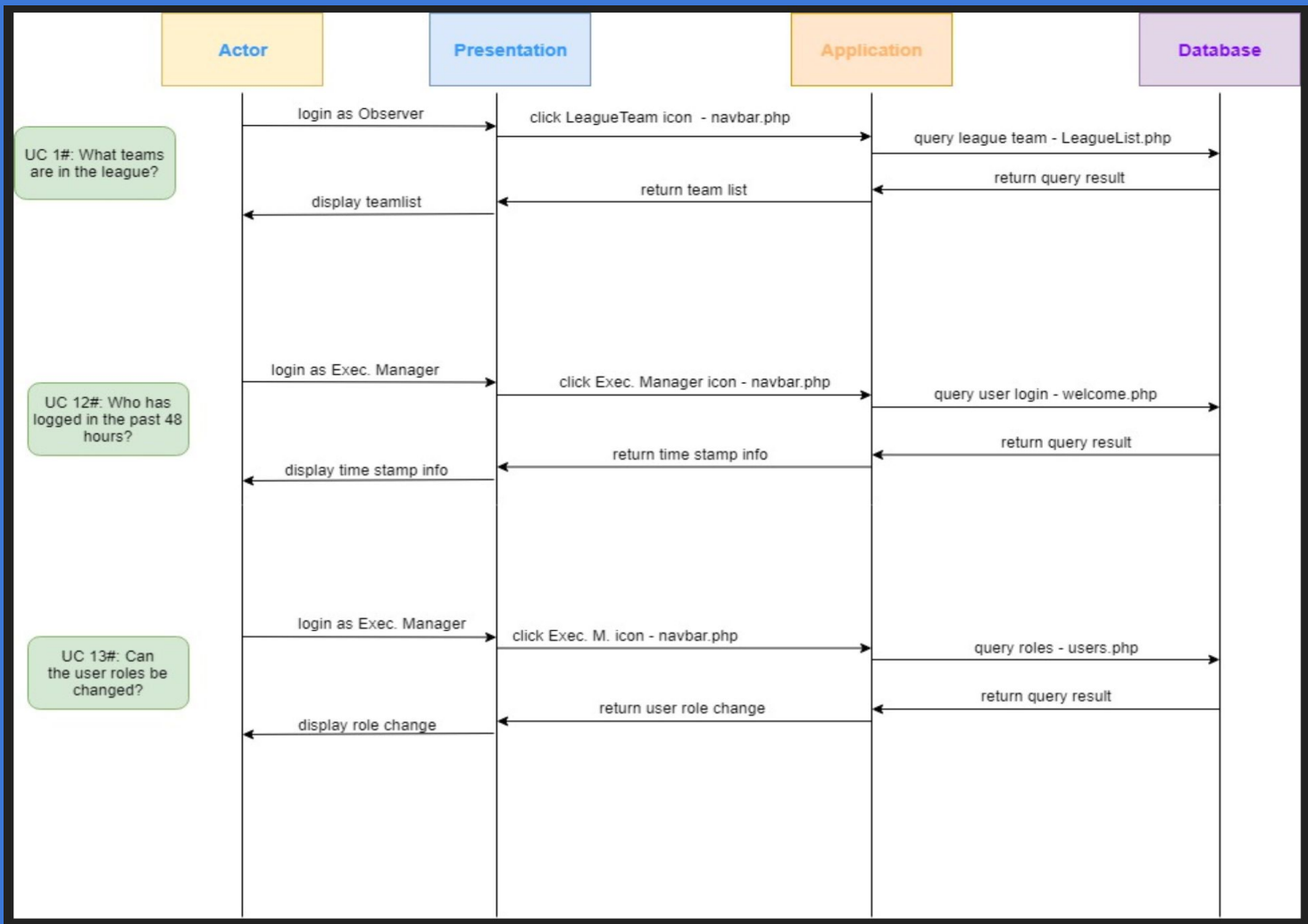
Use Cases

- 14. Forget Password Reset
- 15. Executive Manager Change Accounts Password
- 16. Create Users
- 17. Users and observers can't access the exec page
- 18. Add players to the statistics table



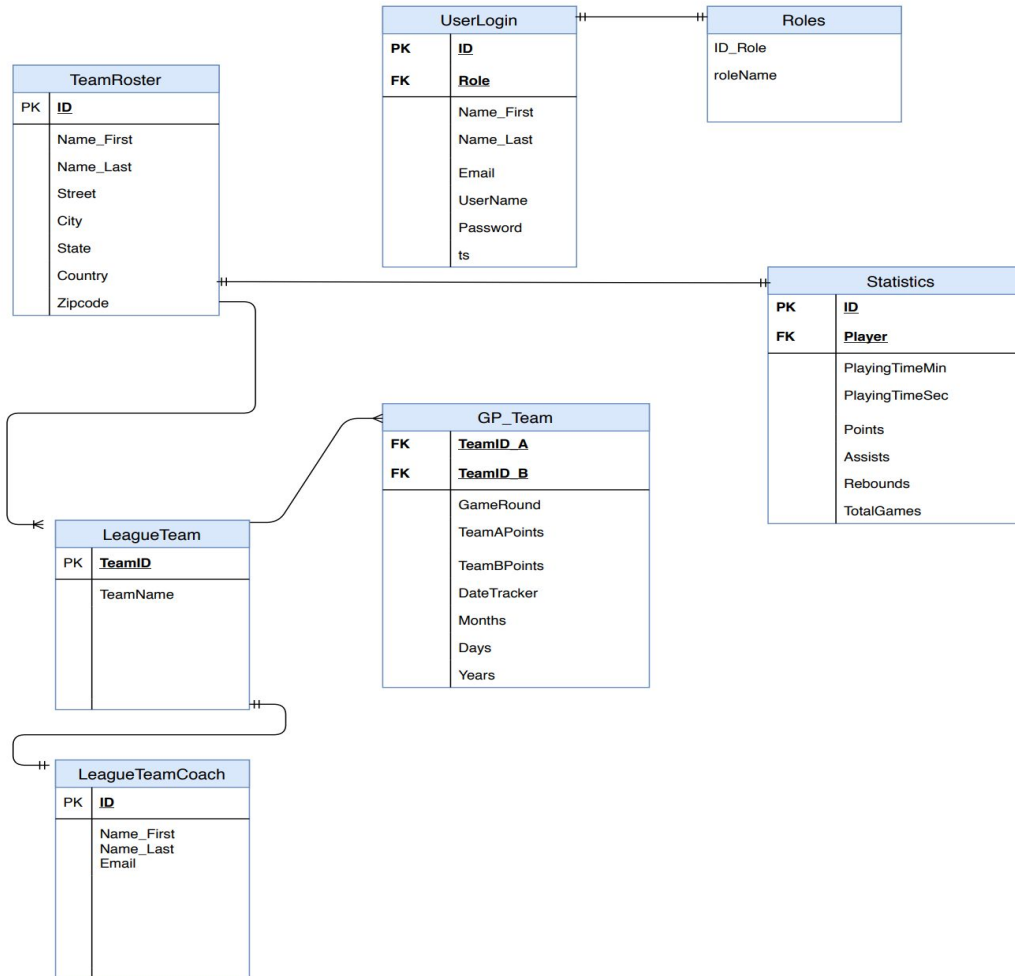
USE CASE VIEW





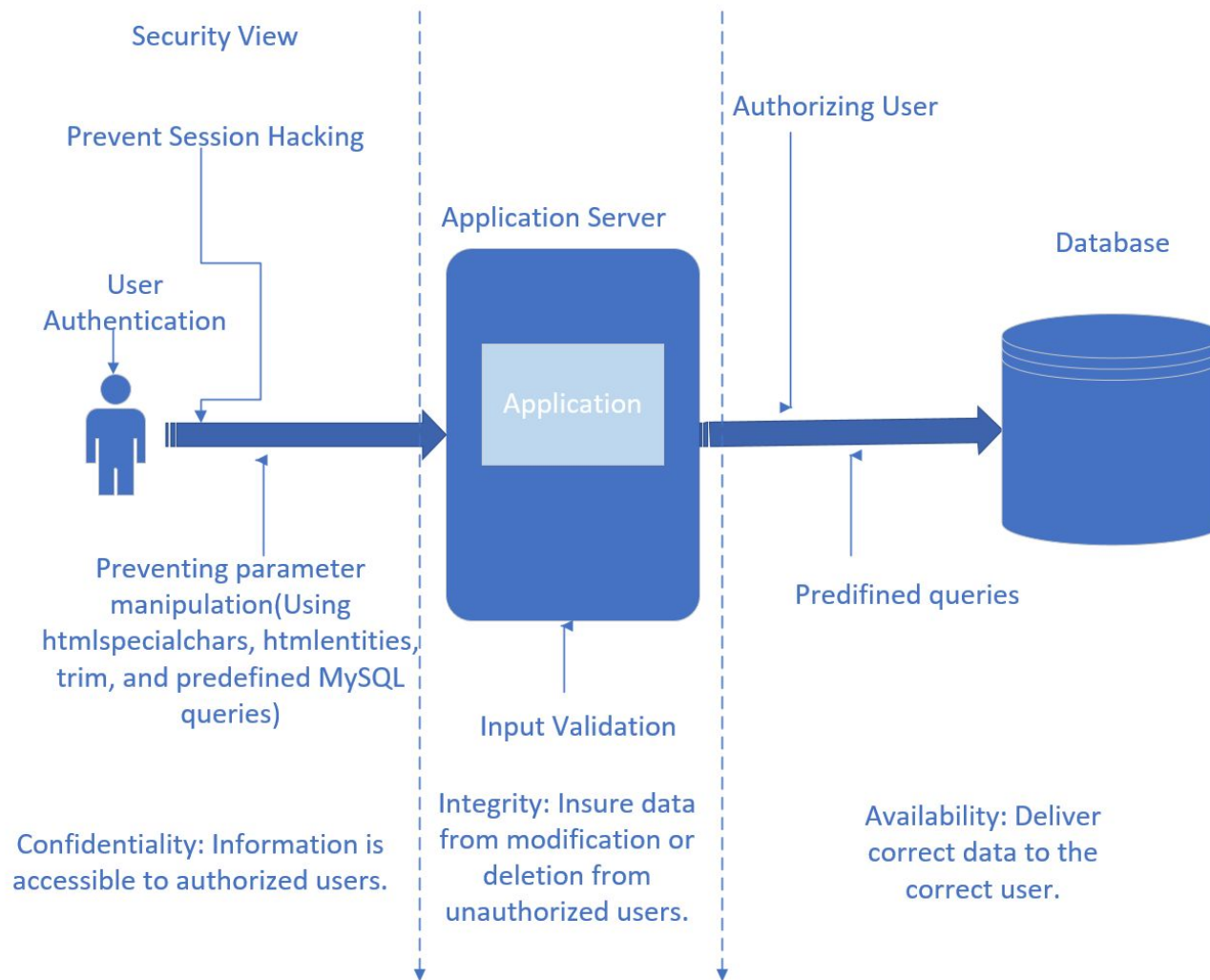


ERD VIEW





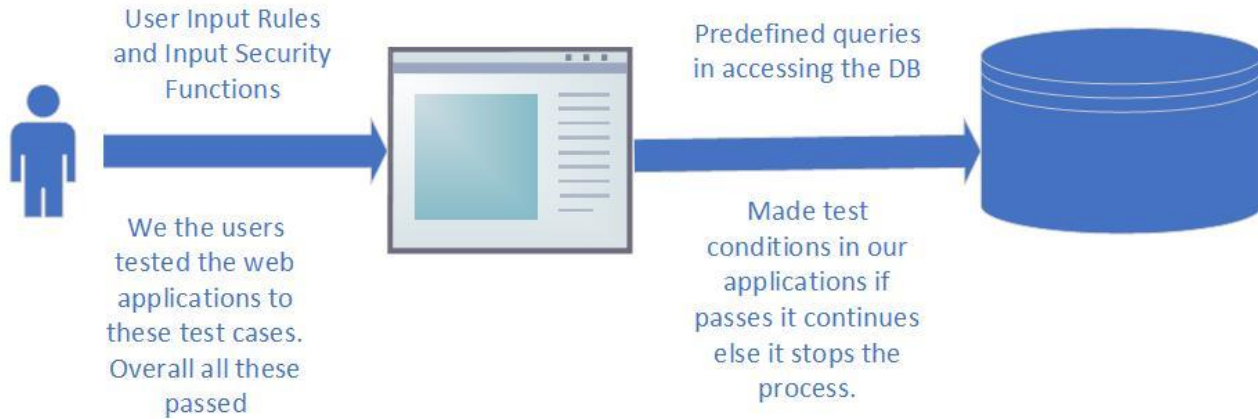
SECURITY VIEW





TESTING VIEW

Testing View



White Box Testing

- Test Case 1: Forget Password Reset
- Test Case 2: Executive Manager Change Role
- Test Case 3: Executive Manager Change Accounts Passwords
- Test Case 4: Create Users
- Test Case 5: Executive Managers Can Access the Users Page
- Test Case 6: Users and Observers Can't Access the Users Page
- Test Case 7: Who logged In The Last 48 hours
- Test Case 8: Show Accounts and Show Roles
- Test Case 9: Show Team Values in the Statistics page
- Test Case 10: Be able to insert players in the Statistics page

Test Case 1: Forget Password Reset(UC 14)

Enter New Password

Username:

dmoreno757

This is a required field.

New Password

test123

This is a required field.

Submit

Login successful for user: 'dmoreno757' as 'Executive Manager'
You are login as 'dmoreno757' as 'Executive Manager'

Record updated successfully

CSUF Basketball Analytics

Please Sign in to enter the website

Test Case 2: Executive Manager Change Role (UC 13)

First Name	Last Name	Email	Password	Role
David	Moreno	dmoreno757@gmail.com	\$2y\$10\$AxuCACMQsa0MFaZc68XomOxKRYNUx0YVwDWznf6mvuvpBreTKi5m	3
albert	torres	beto@gmail.com	\$2y\$10\$ggLOjBqeOzYRJICn3cobh.4eKNq.FBATovo0XU8spQGYFO7ljpT96	3
Brandi	Gomez	bgomez513@gmail.com	\$2y\$10\$Sd5kBtfRbnJmB5K1k9vng.u9gKJA4V49kEZunm4tFERZXTelZKdPe	1
Erik	Moreno	erik@gmail.com	\$2y\$10\$RA9D4HrNt.wGI99FcQ6dTOMQjDoNJ4iwXfNWp92HhXWwSAq9Vq8Ji	3

First Name	Last Name	Email	Password	Role
David	Moreno	dmoreno757@gmail.com	\$2y\$10\$AxuCACMQsa0MFaZc68XomOxKRYNUx0YVwDWznf6mvuvpBreTKi5m	3
albert	torres	beto@gmail.com	\$2y\$10\$ggLOjBqeOzYRJICn3cobh.4eKNq.FBATovo0XU8spQGYFO7ljpT96	3
Brandi	Gomez	bgomez513@gmail.com	\$2y\$10\$Sd5kBtfRbnJmB5K1k9vng.u9gKJA4V49kEZunm4tFERZXTelZKdPe	2
Erik	Moreno	erik@gmail.com	\$2y\$10\$RA9D4HrNt.wGI99FcQ6dTOMQjDoNJ4iwXfNWp92HhXWwSAq9Vq8Ji	3

Test Case 3: Executive Manager Change Accounts Passwords(UC 15)

Enter New Password

Username:

This is a required field.

New Password Th

[Submit](#)

Record updated successfully

CSUF Basketball Analytics

Please [Sign in](#) to enter the website

Test Case 4: Create Users (UC 16)

Registration Form

For User Name and Password Rules

- Must be alphanumeric characters
- Can use underscore

First Name

David

Last Name

Cao

E-Mail

david@gmail.com

User Name

dcao

Password

123133456

Users ▼

☒ I've read the terms and conditions

Register

Back

Success: new user 'dcao' created

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Please Sign in to enter the website



Test Case 5: Users and Observers Can't Access the Exec Page(17)

```
Login successful for user: 'groot' as 'Users'  
You are login as 'groot' as 'Users'  
-- display login form --
```

```
You are login as 'groot' as 'Users'  
-- display login form --
```



Test Case 6: Who logged In The Last 48 hours (UC 12)

User Logins in the last 48 hours	Username	Role	Last Logged In
	dmoreno757	3	2018-05-03 23:46:22
	betos	3	2018-05-03 23:50:10
	groot	2	2018-05-03 23:53:02
	erikerik	3	2018-05-07 17:54:07
	dcao	2	2018-05-09 18:30:40



Test Case 7: Show Accounts and Show Roles (UC 11)

User Logins in the last 48 hours	Username	Role	Last Logged In
	dmoreno757	3	2018-05-03 23:46:22
	betos	3	2018-05-03 23:50:10
	groot	2	2018-05-03 23:53:02
	erikerik	3	2018-05-07 17:54:07
	dcao	2	2018-05-09 18:30:40

Test Case 8: Show Team Values in the Statistics page(UC 1-10)

Player Stats

Name (Last, First)
Choose player's name here ▾
Player Statistics

Name	Games Played	Time on Court	Points Scored	Number of Assists	Number of Rebounds
Duck, Donald	3	35:12	40	11	21

League Teams

ID	Team Names
1	CSUF Titans
2	UCI AntEaters
3	CSULB Wildcats
4	UCR GreenHornets
5	UCSD Bees
6	UCLA Bruins
7	CSUSB Wolves
8	CSULA Eagles

Game Rounds

Game Round	Team Name	Points
1	CSUF Titans	50
	-vs-	---
	UCI AntEaters	20
1	CSULB Wildcats	35
	-vs-	---
	UCR GreenHornets	40
1	UCSD Bees	70
	-vs-	---
	UCLA Bruins	20
1	CSUSB Wolves	55
	-vs-	---
	CSULA Eagles	25
2	CSUF Titans	70
	-vs-	---
	UCR GreenHornets	35
2	UCLA Bruins	50
	-vs-	---
	CSUSB Wolves	30
3	CSUF Titans	20
	-vs-	---
	UCLA Bruins	15

MatchUp	Results
UCSD Bees	70
-vs-	---
UCLA Bruins	20

Test Case 9: Add players to the statistics table(UC 18)

Name Add Request

First Name

Kobe

Last Name

Bryant

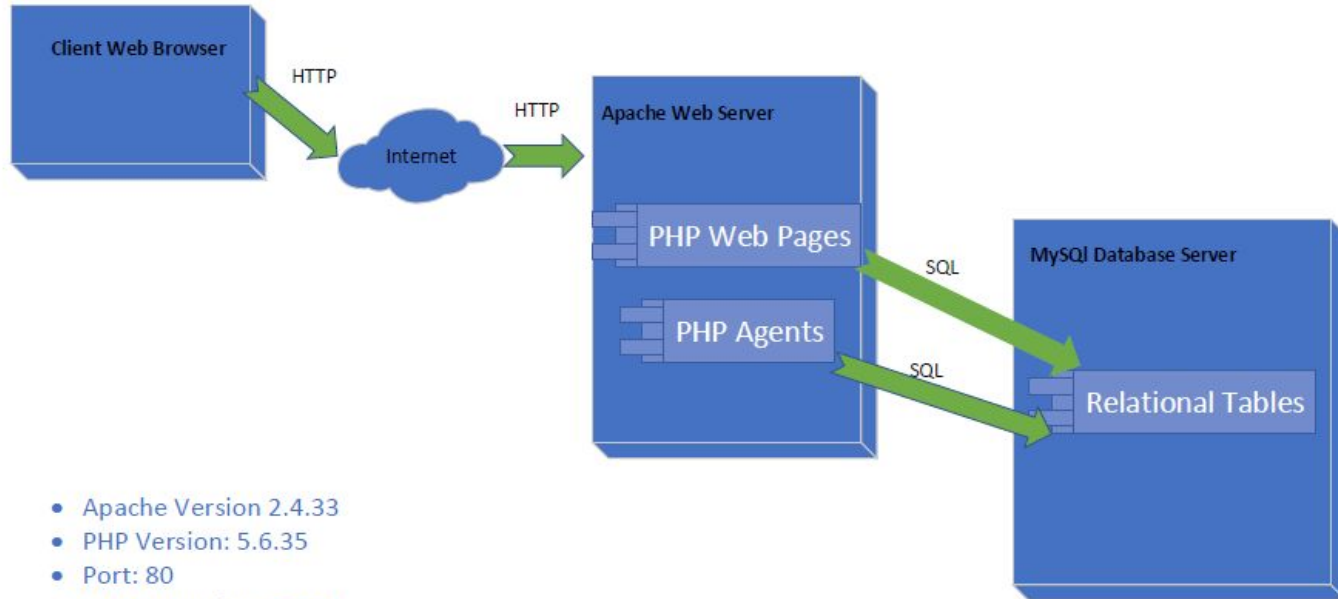
Add Name

3	Bryant, Kobe					
---	--------------	--	--	--	--	--



DEPLOYMENT VIEW

Deployment View



- Apache Version 2.4.33
- PHP Version: 5.6.35
- Port: 80
- MySQL Version: 5.7.21
- Operating System: Windows 10 and MacOS High Sierra
- WiFi Network Standards: 802.11
- Github for source control of software



IMPLEMENTATION VIEW

Implementation View

Programming Languages

- **PHP:** For the actions of our forms and to connect our database.
- **MySQL:** Create the database for the sports application with tables, values, and users.
- **CSS:** Give it a design look for the HTML files.
- **HTML:** Its what the users see when the get onto the application

```
1 <?php
2 //Load Composer's autoloader
3 require("createdB.php");
4
5 if (isset($_REQUEST['submit'])) {
6     $email = trim($_REQUEST['email']);
7     $email = strip_tags($_REQUEST['email']);
8     $email = htmlspecialchars($_REQUEST['email']);
9
10    $sql = "SELECT ID, Password FROM userLogin where Email = '$email'";
11    $result = mysqli_query($link, $sql);
12    $row = mysqli_fetch_array($result);
13    $found = isset($row['found']);
14    $counter = mysqli_num_rows($result);
15
16    $length = 8;
17    $chars = "abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789";
18    $password = substr( str_shuffle( $chars ), 0, $length );
19    if ($counter == 1) {
20        require 'PHPMailer\PHPMailerAutoload.php';
21
22        $mail = new PHPMailer(true); // Passing 'true' enables exceptions
23        $mail->SMTPOptions = array(
24            'ssl' => array(
25                'verify_peer' => false,
26                'verify_peer_name' => false,
27                'allow_self_signed' => true
28            )
29        );
30
31        $mail->isSMTP();
32        $mail->Host='smtp.gmail.com';
33        $mail->Username='431basketball@gmail.com'; //Add new email
34        $mail->Password='431Rocks!'; //add new password
35        $mail->SMTPSecure='tls';
36        $mail->SMTPAuth = true;
37
38        $mail->Port=587;
39        $mail->setFrom('431Basketball@gmail.com', 'Admin');
40        $mail->addAddress($email, 'user');
41
42        $mail->WordWrap = 50; // set word wrap to 50 characters
43        $mail->isHTML(true);
44
45        $mail->Subject = 'Temporary Password';
46        $mail->Body = 'Your temporary password is <b>'.$password.'</b>.' . "<a href='http://localhost/SportsTeam-Website/changePasswordForm.php'";
47
48        if($mail->Send())
49        {
50            echo "Message has been sent";
51            $sqlUpdate = "UPDATE UserLogin SET Password='$password' WHERE Email='$email'";
52            mysqli_query($link, $sqlUpdate);
53            require("login.php");
54        } else {
55            echo "Email error";
56            require("login.php");
57        }
58    } else {
59        echo "Email not Found";
60    }
61 }
```



Screen Shots Of Application

CSUF Basketball Analytics

Please Sign in to enter the website

Username:

This is a required field.

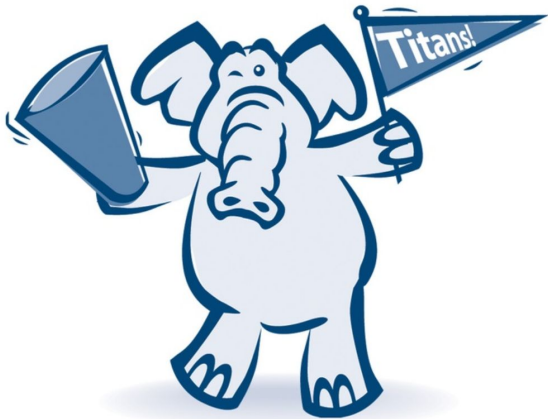
Password:

[Sign In](#)

[I forgot password](#)

Create Account

[Register](#)



Registration Form

For User Name and Password Rules
- Must be alphanumeric characters
- Can use underscore

First Name

Last Name

E-Mail

User Name

Password

Observer

▼

☐ I've read the terms and conditions

[Register](#)

[Back](#)

Connecting to DB as 'Executive Manager'/'Password3'
Login successful for user: 'JSmith' as 'Executive Manager'
You are login as 'JSmith' as 'Executive Manager'
-- display login form --

Cal State Fullerton Basketball Statistics

Welcome to the Site

Registered Users IDs	Team Name	Username	Role
1	Jason Durolo	JSmith	3
Teams In The League IDs	Team Name	Coach	
1	CSUF Titans	Deadpool	
2	UCI AntEaters	Batman	
3	CSULB Wildcats	Daredevil	
4	UCR GreenHornets	Hulk	
5	UCSD Bees	Cerci Lannister	
6	UCLA Bruins	Morgan Freeman	
7	CSUSB Wolfs	Joker	
8	CSULA Eagles	Vin Diesel	
User Logins in the last 48 hours	Username	Role	Last Logged In
	JSmith	3	2018-05-08 17:47:40

Cal State Fullerton Basketball Statistics

Created by David Moreno,David Cao, Mohammed Hassnain

Project Description

A PHP and MySQL database application tasked with defining, implementing, deploying, and delivering a 3-tier software solution that keeps track of information related to running a sports team.

Cal State Fullerton Basketball Statistics

CSUF BasketBall Analytics

[Home](#) [About](#) [PlayerStats](#) [LeagueTeams](#) [GameRounds](#) [Schedule](#) [Users](#)

Logout

Connecting to DB as 'Executive Manager'/Password3'

Player Stats

Name (Last, First)

Choose player's name here ▾

Player Statistics

Name	Games Played	Time on Court	Points Scored	Number of Assists	Number of Rebounds
------	--------------	---------------	---------------	-------------------	--------------------

Cal State Fullerton Basketball Statistics

CSUF BasketBall Analytics

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Logout

Connecting to DB as 'Executive Manager'/Password3'

League Teams

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Cal State Fullerton Basketball Statistics

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Logout

Connecting to DB as 'Executive Manager'/Password3'

Game Rounds

Game Round	Team Name	Points
1	CSUF Titans	50
	-vs-	---
	UCI AntEaters	20
1	CSULB Wildcats	35
	-vs-	---
	UCR GreenHornets	40
1	JCSD Bees	70
	-vs-	---
	UCLA Bruins	20
1	CSUSB Wolves	55
	-vs-	---
	CSULA Eagles	25
2	CSUF Titans	70
	-vs-	---
	UCR GreenHornets	35
2	UCLA Bruins	50
	-vs-	---
	CSUSB Wolves	30
3	CSUF Titans	20
	-vs-	---
	UCLA Bruins	15

Cal State Fullerton Basketball Statistics

CSUF BasketBall Analytics

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Logout

Connecting to DB as 'Executive Manager'/Password3'

Game Schedules

Date (Month-Day-Year)

Choose a date ▼

Search Date

MatchUp

Results

Connecting to DB as 'Executive Manager'/Password3'

Users Infromation

Managers Bar

[Reset Passwords](#)
[Change Roles](#)

First Name	Last Name	Email	Password	Role
Jason	Durolo	mohammed-17@csu.fullerton.edu	\$2y\$10\$Fi0sumXlfUWxmh6yBM8avuoeKb9pSwX22t9G4RmkU0lIEduoC.bJ2	3

Connecting to DB as 'Executive Manager'/Password3'

Name (Last, First) Choose player's name here ▼

Change Password

Connecting to DB as 'Executive Manager/Password3'

Enter Users Name

First Name

Last Name

Observer

[Change](#)



Thank you for watching