**VirtualScope Code**

\*Code submitted in Iteration3 zip AND can be found <https://github.com/huntress13/TeamPuma-VirtualScope/tree/master/Web>

addscope.inc.php

<?php

require 'dbh.inc.php';

if(isset($\_POST['addscope-submit']))

{

$microscopeName = 'microscope'.$\_POST['next\_microscope\_number'];

$sql = 'INSERT INTO microscopes (microscope\_name) VALUES (?)';

$stmt = mysqli\_stmt\_init($conn);

if(!mysqli\_stmt\_prepare($stmt, $sql)){

header("Location: ../microscopeconfig.php?error=sqlerror");

exit();

}else{

// Bind microscope name into sql statement

mysqli\_stmt\_bind\_param($stmt, "s", $microscopeName);

//execute statment into the database

mysqli\_stmt\_execute($stmt);

header("Location: ../microscopeconfig.php");

exit();

}

}

?>

adminpage-style.css

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

button {

border-radius: 8px;

background-color: grey;

border: none;

color: white;

padding: 10px 10px;

text-align: center;

display: inline-block;

font-size: 20px;

margin: 10px;

}

adminpanel.php

<?php

require 'includes/sessionsconfig.inc.php';

if($userType != "admin"){

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en" >

<head>

<title>VirtualScope</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link href='https://fonts.googleapis.com/css?family=Roboto:400,700' rel='stylesheet' type='text/css'>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.1/css/all.css" integrity="sha384-gfdkjb5BdAXd+lj+gudLWI+BXq4IuLW5IT+brZEZsLFm++aCMlF1V92rMkPaX4PP" crossorigin="anonymous">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>

<link rel="stylesheet" href="styles/loginpage-style.css">

<link rel="stylesheet" href="styles/navbar-style.css">

<link rel="stylesheet" href="styles/adminpage-style.css">

</head>

<body>

<!-- Navigation Bar -->

<?php include 'navbar.php'; ?>

<!-- Content -->

<div class="container" style="margin-top:30px">

<div class="card" style="margin-bottom:30px">

<div class="card-header">

Administrator Panel

<a href="index.php" style="float: right;">Back to home</a>

</div>

<div class="card-body">

<div class="container">

<dl class="row">

<dt class="col-sm-3"><button type="submit" class="btn" name="classpasswords" onclick="window.location.href='classpasswordpage.php'">Class Passwords</button></dt>

<dd class="col-sm-9 my-auto">View and modify class passwords</dd>

<dt class="col-sm-3"><button type="submit" class="btn" name="userlogins" onclick="window.location.href='tracklogin.php'">Logins</button></dt>

<dd class="col-sm-9 my-auto">

Track user logins

</dd>

<dt class="col-sm-3"><button type="submit" class="btn" name="configuremicroscopes" onclick="window.location.href='microscopeconfig.php'">Microscopes</button></dt>

<dd class="col-sm-9 my-auto">View and configure microscopes</dd>

</dl>

</div>

</div>

</div>

</div>

</body>

</html>

backup-style.css

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

font-family: "Roboto";

font-size: 14px;

background-size: 200% 200% !important;

-webkit-animation: move 10s ease infinite;

animation: move 10s ease infinite;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

background: linear-gradient(45deg, #49D49D 10%, #A2C7E5 90%);

height: 100vh;

}

.user {

width: 90%;

max-width: 340px;

margin: 10vh auto;

}

.user\_\_header {

text-align: center;

opacity: 0;

-webkit-transform: translate3d(0, 500px, 0);

transform: translate3d(0, 500px, 0);

-webkit-animation: arrive 500ms ease-in-out 0.7s forwards;

animation: arrive 500ms ease-in-out 0.7s forwards;

}

.user\_\_title {

font-size: 14px;

margin-bottom: -10px;

font-weight: 500;

color: white;

}

.form {

margin-top: 40px;

border-radius: 6px;

overflow: hidden;

opacity: 0;

-webkit-transform: translate3d(0, 500px, 0);

transform: translate3d(0, 500px, 0);

-webkit-animation: arrive 500ms ease-in-out 0.9s forwards;

animation: arrive 500ms ease-in-out 0.9s forwards;

}

.form--no {

-webkit-animation: NO 1s ease-in-out;

animation: NO 1s ease-in-out;

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

.form\_\_input {

display: block;

width: 100%;

padding: 20px;

font-family: "Roboto";

-webkit-appearance: none;

border: 0;

outline: 0;

transition: 0.3s;

}

.form\_\_input:focus {

background: #f7f7f7;

}

.btn {

display: block;

width: 100%;

padding: 20px;

font-family: "Roboto";

-webkit-appearance: none;

outline: 0;

border: 0;

color: white;

background: #A2C7E5;

transition: 0.3s;

}

.btn:hover {

color: white;

background: #49D49D;

}

@-webkit-keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@-webkit-keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@-webkit-keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

@keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

#login-container.jumbotron{

margin-top: 50px;

margin-bottom: 50px;

max-width: 500px !important;

}

.submit-btn{

width: 100%;

height: 50px;

border: none;

border-radius: 15px;

margin-top: 30px;

margin-bottom: 30px;

}

#login-form{

margin-top: 50px;

}

#login-jumbotron{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

}

.nav-text{

display: block;

padding: .5rem 1rem;

padding-top: 0.5rem;

padding-right: 1rem;

padding-bottom: 0.5rem;

padding-left: 1rem;

color: rgba(255,255,255,1);

}

#viewphoto-jumbo{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

padding-top: 1rem;

border-radius: 15px;

}

.img-thumbnail{

background-color: #e9ecef;

border-width: 2px;

}

.videoWrapper {

position: relative;

padding-bottom: 56.25%; /\* 16:9 \*/

padding-top: 0px;

height: 0;

}

.videoWrapper iframe {

position: absolute;

top: 0;

left: 0;

width: 100%;

height: 100%;

}

#home-jumbotron {

text-align: center;

padding-top: 10rem;

padding-bottom: 10rem;

text-shadow: 2px 2px #000;

}

.lead span {

color: #A2C7E5;

font-weight: bold;

}

.bg-cover {

background-image: url("images/microscope-ocular-lenses.jpg");

background-size: cover;

color: white;

background-position: center center;

position: relative;

z-index: -2;

}

.overlay {

background-color: #000;

opacity: 0.5;

position: absolute;

top: 0;

left: 0;

bottom: 0;

right: 0;

z-index: -1;

}

.navbar-transparent{

background-color: rgba(255,255,255,.1);

text-shadow: none;

}

#nav2-jumbotron {

height: 100px;

text-align: center;

padding-top: 20px;

padding-bottom: 20px;

margin-top: 0px;

margin-bottom: 0px;

}

.card-body .img-thumbnail {

margin-top: 5px;

margin-bottom: 5px;

}

.bg-dark{

background-color: #2a2c2e!important;

}

.navbar-dark .navbar-nav .nav-link {

color: rgba(255,255,255,.75);

}

.navbar-dark .navbar-nav .nav-link:hover {

color: rgba(255,255,255,1);

}

.video { position: relative; padding-bottom: 56.25%; /\* 16:9 \*/ height: 0; }

.video img { position: absolute; display: block; top: 0; left: 0; width: 100%; height: 100%; z-index: 20; cursor: pointer; }

.video:after { content: ""; position: absolute; display: block;

background: url(images/play-button.png) no-repeat 0 0;

top: 45%; left: 45%; width: 46px; height: 36px; z-index: 30; cursor: pointer; }

.video iframe { position: absolute; top: 0; left: 0; width: 100%; height: 100%; }

/\* image poster clicked, player class added using js \*/

.video.player img { display: none; }

.video.player:after { display: none; }

classpassword.inc.php

<?php

if (isset($\_POST['addcpwd-submit'])) {

require 'dbh.inc.php';

//fetch info from admin

$course\_name = $\_POST['course\_name'];

$section = $\_POST['section'];

$class\_password = $\_POST['class\_password'];

//confirm all fields are filled in, if not, exit

if (empty($course\_name) || empty($section) || empty($class\_password)){

header("Location: ../loginpage.php?error=emptyfield");

exit();

}else{

$sql = "INSERT INTO class\_passwords(course\_name, section, class\_password) VALUES (?,?,?);";

$stmt = mysqli\_stmt\_init($conn);

if (!mysqli\_stmt\_prepare($stmt, $sql)) {

//checking to see if sql statement is valid

header("Location: ../loginpage.php?error=sqlstatementerror");

exit();

}else{

mysqli\_stmt\_bind\_param($stmt, "sss", $course\_name, $section, $class\_password);

mysqli\_stmt\_execute($stmt);

header("Location: ../classpasswordpage.php");

exit();

}

}

msqli\_stmt\_close($stmt);

mysqli\_close($conn);

}

classpasswordpage.php

<?php

require 'includes/sessionsconfig.inc.php';

if($userType != "admin"){

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en" >

<head>

<meta charset="UTF-8">

<title>VirtualScope</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

<link href='https://fonts.googleapis.com/css?family=Roboto:400,700' rel='stylesheet' type='text/css'>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.min.css">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>

<link rel="stylesheet" href="styles/scopeconfig-style.css">

<link rel="stylesheet" href="styles/navbar-style.css">

</head>

<body>

<!-- Navigation Bar -->

<?php include 'navbar.php'; ?>

<div class="container" style="margin-top:30px">

<div class="card" style="margin-bottom:30px">

<div class="card-header">

Class Passwords

<a href="adminpanel.php" style="float: right;">Back to admin panel</a>

</div>

<div class="card-body">

<div class="container">

<!-- Add class password -->

<div class="container" style="margin-top:1px">

<h5>Add Class Password</h5>

<form id="add-password" class="form-inline" action="includes/classpassword.inc.php" method="post">

<div class="form-group">

<input type="text" name = "course\_name" placeholder="Course Name" class="form\_\_input" />

</div>

<div class="form-group">

<input type="text" name = "section" placeholder="Section" class="form\_\_input" />

</div>

<div class="form-group">

<input type="text" name = "class\_password" placeholder="Class Password" class="form\_\_input" />

</div>

<div class="form-group">

<button class="btn" name="addcpwd-submit" type="submit" class="form\_\_input" >Submit</button>

</div>

</form>

</div>

<!--Delete class password-->

<div class="card" style="margin-bottom:30px">

<div class="card-header">

Existing Class Passwords

</div>

<div class="card-body">

<div class="container">

<div class="row">

<div class="table-responsive">

<?php include "includes/dbh.inc.php";

$sql = "SELECT \* FROM class\_passwords";

$i = 0;

if($result = mysqli\_query($conn, $sql)){

$numberOfRows = mysqli\_num\_rows($result);

if(mysqli\_num\_rows($result) > 0){

echo "<table class=\"table table-striped text-center\">";

echo "<tr>";

echo "<th class=\"text-center\">ID</th>";

echo "<th class=\"text-center\">Course name</th>";

echo "<th class=\"text-center\">Section</th>";

echo "<th class=\"text-center\">Class Password</th>";;

echo "<th class=\"text-center\"></th>";

echo "</tr>";

while($row = mysqli\_fetch\_array($result)){

echo "<form id=\"classpassword-form". $i++ ."\" method=\"POST\" action=\"includes/deleteclasspassword.inc.php\" class=\"form-horizontal\">";

echo '<input type="hidden" id="classpasswordID" name="cpid" value="'. $row['cpid'] . '">';

echo "<tr>";

echo "<td>" . $row['cpid'] . "</td>";

echo "<td>" . $row['course\_name'] . "</td>";

echo "<td>" . $row['section'] . "</td>";

echo "<td>" . $row['class\_password'] . "</td>";

echo "<td><button type=\"submit\" class=\"btn\" name=\"deletecpwd-submit\">delete</button></td>";

echo "</tr>";

echo "</form>";

}

echo "</table>";

// Free result set

mysqli\_free\_result($result);

} else{

echo "No records matching your query were found.";

}

} else{

echo "ERROR: Could not able to execute $sql. " . mysqli\_error($conn);

}

?>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</body>

</html>

dbh.inc.php

<?php

$servername = "localhost";

//if using online server use hosting company's server name

$dBUserName = "root";

$dBPassword = "";

$dBName="virtualscope";

$conn = mysqli\_connect($servername, $dBUserName, $dBPassword,$dBName);

if(!$conn){

die("Connection Failed:".mysqli\_connect\_error());

}

deleteclasspassword.inc.php

<?php

if (isset($\_POST['deletecpwd-submit'])) {

require 'dbh.inc.php';

//fetch info from admin

$cpid = $\_POST['cpid'];

$sql = "DELETE FROM class\_passwords WHERE cpid = ?";

$stmt = mysqli\_stmt\_init($conn);

if (!mysqli\_stmt\_prepare($stmt, $sql)) {

//checking to see if sql statement is valid

header("Location: ../loginpage.php?error=sqlstatementerror");

exit();

}else{

mysqli\_stmt\_bind\_param($stmt, "d", $cpid);

mysqli\_stmt\_execute($stmt);

header("Location: ../classpasswordpage.php");

exit();

}

msqli\_stmt\_close($stmt);

mysqli\_close($conn);

}

else{

//if user did not access the page through the normal way without clicking the signup button

header("Location: ../index.php");

exit();

}

editmicroscope.php

<?php

require 'includes/sessionsconfig.inc.php';

require 'includes/dbh.inc.php';

if($userType != "admin"){

header("Location: index.php");

}

if(!isset($\_POST['editscope-submit'])){

header("Location: microscopeconfig.php");

} else{

$scopeID = $\_POST['mid'];

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title>VirtualScope</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link href='https://fonts.googleapis.com/css?family=Roboto:400,700' rel='stylesheet' type='text/css'>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.1/css/all.css" integrity="sha384-gfdkjb5BdAXd+lj+gudLWI+BXq4IuLW5IT+brZEZsLFm++aCMlF1V92rMkPaX4PP" crossorigin="anonymous">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>

<link rel="stylesheet" href="styles/scopeconfig-style.css">

<link rel="stylesheet" href="styles/navbar-style.css">

</head>

<body>

<!-- Navigation -->

<?php include 'navbar.php' ?>

<!-- Content -->

<div class="container" style="margin-top:30px">

<div class="card" style="margin-bottom:30px">

<div class="card-header">

Microscope Configurations

<a href="microscopeconfig.php" style="float: right;">Back to microscopes</a>

</div>

<div class="card-body">

<div class="container">

<?php

$sql = "SELECT \* FROM microscopes WHERE mid = ?";

$stmt = mysqli\_stmt\_init($conn);

mysqli\_stmt\_prepare($stmt, $sql);

mysqli\_stmt\_bind\_param($stmt, "s", $scopeID);

mysqli\_stmt\_execute($stmt);

if(mysqli\_stmt\_bind\_result($stmt, $col1, $col2, $col3, $col4, $col5, $col6, $col7, $col8)){

mysqli\_stmt\_fetch($stmt);

$microscopeName = $col2; //Define the microscope name

$experimentName = $col3; //Define the experiment name

$courseName = $col4; // Define the course name

$availability = $col5; // Define the availability

$photoInterval = $col6; // Define the photo interval

$state = $col8; // Define the state

// Close the statement

mysqli\_stmt\_close($stmt);

} else{

echo "ERROR: Could not able to execute $sql. " . mysqli\_error($conn);

}

// Close connection

mysqli\_close($conn);

//FORM

echo '<h2>'. ucfirst($microscopeName) .'</h2>';

echo' <form id="scope-edit-form" method="POST" action="includes/updatescope.inc.php" class="needs-validation" novalidate>

<input type="hidden" id="microscopeID" name="mid" value="'. $scopeID . '">

<input type="hidden" id="microscope\_name" name="microscope\_name" value="'. $microscopeName .'">

<label for="experimentName">Experiment Name:</label>

<div class="input-group mb-3">

<input type="text" class="form-control" id="experimentName" value="'. $experimentName .'" name="experiment\_name" required>

<div class="invalid-feedback">Please fill out this field.</div>

</div>

<label for="courseName">Course Name:</label>

<div class="input-group mb-3">

<input type="text" class="form-control" id="courseName" value="'. $courseName .'" name="course\_name" required>

<div class="invalid-feedback">Please fill out this field.</div>

</div>

<label for="pwd">Availability:</label>

<div class="input-group mb-3">

<input type="text" class="form-control" id="availability" value="'. $availability .'" name="availability" required>

<div class="invalid-feedback">Please fill out this field.</div>

</div>

<label for="pwd">Photo Interval:</label>

<div class="input-group mb-3">

<input type="text" class="form-control" id="picture\_time\_increment" value="'. $photoInterval .'" name="picture\_time\_increment" required>

<div class="invalid-feedback">Please fill out this field.</div>

</div>

<label for="pwd">State:</label>';

if($state == 'active'){

echo "<select class=\"form-control\" name=\"state\">

<option value=\"active\" selected=\"selected\">Active</option>

<option value=\"inactive\">Inactive</option>

</select>";

}

else if($state == 'inactive'){

echo "<select class=\"form-control\" name=\"state\">

<option value=\"active\">Active</option>

<option value=\"inactive\" selected=\"selected\">Inactive</option>

</select>";

}

else{

echo "<select class=\"form-control\" name=\"state\">

<option value=\"active\">Active</option>

<option value=\"inactive\" selected=\"selected\">Inactive</option>

</select>";

}

echo '<br/>';

echo '<button type="submit" class="btn" name="updatescope-submit">Submit</button>

</form>';

?>

</div>

</div>

</div>

</div>

</body>

</html>

footer.php

<footer class="footer bg-dark">

<div class="container">

<span class="text-muted">&copy 2019 Team Puma<br/>

<a href="https://www.metrostate.edu">Metropolitan State University</a><br/>

<a href="#">Contact Us</a></span>

</div>

</footer>

functions.inc.php

<?php

function displayImages($directory){

$dir = $directory;

$filenames = scandir($dir);

$numOfFiles = sizeof($filenames);

for($i = sizeof($filenames) -1; $i > 1; $i--){

echo '

<div class="col-sm-6 col-md-4">

<a href="'.$dir.'/'.$filenames[$i].'" target="\_blank">

<img class="img-thumbnail img-fluid" src="'.$dir.'/'.$filenames[$i].'" style="width:100%">

</a>

<div>

<p>'.substr($filenames[$i], 0, strrpos($filenames[$i], ".")).'</p>

</div>

</div>';

}

}

function displayLatest($directory, $number){

$dir = $directory;

$filenames = scandir($dir);

$numOfFiles = sizeof($filenames);

$firstImage = $numOfFiles - $number;

if($numOfFiles < 5){

$firstImage = 2;

}

for($i = sizeof($filenames)-1; $i >= $firstImage; $i--){

echo '

<a href="'.$dir.'/'.$filenames[$i].'" target="\_blank">

<img class="img-thumbnail img-fluid" src="'.$dir.'/'.$filenames[$i].'" style="width:100%">

</a>';

}

}

function getMyMicroscopeName($url){

$array = explode("/", $url);

$count = count($array);

return $array[$count-1];

}

function getMicroscopeInfo($microscopeName, $conn){

$sql = "SELECT experiment\_name, course\_name, availability FROM microscopes WHERE microscope\_name = ?";

$stmt = mysqli\_stmt\_init($conn);

mysqli\_stmt\_prepare($stmt, $sql);

mysqli\_stmt\_bind\_param($stmt, "s", $microscopeName);

mysqli\_stmt\_execute($stmt);

if(mysqli\_stmt\_bind\_result($stmt, $col1, $col2, $col3)){

mysqli\_stmt\_fetch($stmt);

$experimentName = $col1;

$courseName = $col2;

$availability = $col3;

// Free result set

mysqli\_stmt\_close($stmt);

} else{

echo "ERROR: Could not able to execute $sql. " . mysqli\_error($conn);

}

// Close connection

mysqli\_close($conn);

}

?>

homepage.php

<?php

require 'includes/sessionsconfig.inc.php';

?>

<!DOCTYPE html>

<html lang="en" >

<head>

<title>VirtualScope</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link href='https://fonts.googleapis.com/css?family=Roboto:400,700' rel='stylesheet' type='text/css'>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>

<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.1/css/all.css" integrity="sha384-gfdkjb5BdAXd+lj+gudLWI+BXq4IuLW5IT+brZEZsLFm++aCMlF1V92rMkPaX4PP" crossorigin="anonymous">

<link rel="stylesheet" href="styles/homepage-style.css">

<link rel="stylesheet" href="styles/navbar-style.css">

</head>

<body>

<!-- Navigation Bar -->

<?php include 'navbar.php'; ?>

<div id="home-jumbotron" class="jumbotron-fluid jumbotron bg-cover">

<div class="overlay"></div>

<div class="container">

<h1 class="display-3 mb-1">Ongoing Experiments</h1>

<p class="lead"><span>What we're doing today</span></p>

</div>

</div>

<div class="container text-center">

<h1>Today's BIG Question...</h1>

<p>What type of protist are paramecium? This lab experiment is for you to understand their anatomy.

</p>

<div class="row justify-content-center">

<div class="col-sm-8 col-md-4">

<div class="card">

<div class="card-header">Microscope 1</div>

<div class="card-body">

<img class="img-thumbnail img-fluid" src="<?php echo $homepath ?>images/paramecium.jpg" style="width:100%">

Experiment Group 1

<a href="microscopes/microscope1/viewlivestream.php" class="btn btn-info" role="button">View Live Stream</a>

<a href="microscopes/microscope1/viewphotos.php" class="btn btn-info" role="button">View Photos</a>

</div>

</div>

</div>

<div class="col-sm-8 col-md-4">

<div class="card">

<div class="card-header">Microscope 2</div>

<div class="card-body">

<img class="img-thumbnail img-fluid" src="<?php echo $homepath ?>images/paramecium2.jpg" style="width:100%">

Experiment Group 2

<a href="microscopes/microscope2/viewlivestream.php" class="btn btn-info" role="button">View Live Stream</a>

<a href="microscopes/microscope2/viewphotos.php" class="btn btn-info" role="button">View Photos</a>

</div>

</div>

</div>

</div>

</div>

<!-- Footer -->

<?php include 'footer.php' ?>

</body>

</html>

homepage-stye.css

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

font-family: "Roboto";

font-size: 14px;

background-size: 200% 200% !important;

-webkit-animation: move 10s ease infinite;

animation: move 10s ease infinite;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

background: linear-gradient(45deg, #49D49D 10%, #A2C7E5 90%);

height: 100vh;

}

.btn {

display: block;

width: 100%;

padding: 20px;

margin-top:10px;

font-family: "Roboto";

-webkit-appearance: none;

outline: 0;

border: 0;

color: white;

background: #A2C7E5;

transition: 0.3s;

}

.btn:hover {

color: white;

background: #49D49D;

}

@-webkit-keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@-webkit-keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@-webkit-keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

@keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

#home-jumbotron {

text-align: center;

padding-top: 5rem;

padding-bottom: 5rem;

text-shadow: 2px 2px #000;

}

#splash-jumbotron {

text-align: center;

padding-top: 10rem;

padding-bottom: 10rem;

text-shadow: 2px 2px #000;

}

.lead span {

color: #A2C7E5;

font-weight: bold;

}

.bg-cover {

background-image: url("../images/microscope-ocular-lenses.jpg");

background-size: cover;

color: white;

background-position: center center;

position: relative;

z-index: -2;

}

.overlay {

background-color: #000;

opacity: 0.5;

position: absolute;

top: 0;

left: 0;

bottom: 0;

right: 0;

z-index: -1;

}

.card-body .img-thumbnail {

margin-top: 5px;

margin-bottom: 5px;

}

.card{

margin-bottom: 10px;

}

h1{

font-size: 3.5rem;

font-weight: 300;

line-height: 1.2;

color: white;

text-shadow: 2px 2px #000;

}

footer {

padding-top: 30px;

padding-bottom: 10px;

margin-top: 100px;

height: 130px;

width: 100%;

overflow: hidden;

}

.videoWrapper {

position: relative;

padding-bottom: 56.25%; /\* 16:9 \*/

padding-top: 0px;

height: 0;

}

.videoWrapper iframe {

position: absolute;

top: 0;

left: 0;

width: 100%;

height: 100%;

}

index.php

<?php

require 'includes/sessionsconfig.inc.php';

?>

<!DOCTYPE html>

<html lang="en" >

<head>

<title>VirtualScope</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link href='https://fonts.googleapis.com/css?family=Roboto:400,700' rel='stylesheet' type='text/css'>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>

<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.1/css/all.css" integrity="sha384-gfdkjb5BdAXd+lj+gudLWI+BXq4IuLW5IT+brZEZsLFm++aCMlF1V92rMkPaX4PP" crossorigin="anonymous">

<link rel="stylesheet" href="styles/homepage-style.css">

<link rel="stylesheet" href="styles/navbar-style.css">

</head>

<body>

<!-- Navigation Bar -->

<?php include 'navbar.php'; ?>

<div id="splash-jumbotron" class="jumbotron-fluid jumbotron bg-cover">

<div class="overlay"></div>

<div class="container">

<h1 class="display-3 mb-1">VirtualScope</h1>

<p class="lead"><span>Where your experiments come to you.</span></p>

</div>

</div>

<div class="container">

<div class="row">

<div class="col-md-6">

<h2>What is VirtualScope?</h2>

<p>VirtualScope is your gateway to accessing Biological experiments from anywhere!

Here we have a sample being viewed using either a 10x, 40x, or 100x oil objective on our microscope coming to you

through the internet via a Raspberry Pi. Experiments often require a test case as well as a control which means

we are capable of viewing multiple microscopes at the same time which may be receiving different treatments.

To learn more about these see our current list of what each scope is viewing, <a href="homepage.php">click here!</a></p>

</div>

<div class="col-md-6">

<div class="videoWrapper">

<!-- Put YOUTUBE link below -->

<iframe width="560" height="349" src="https://www.youtube.com/embed/JY\_0kaKBtJ4" frameborder="0" allow="accelerometer; autoplay; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>

</div>

</div>

</div>

</div>

<!-- Footer -->

<?php include 'footer.php' ?>

</body>

</html>

login.inc.php

<?php

if(isset($\_POST['login-submit'])){

require 'dbh.inc.php';

//login with either email or username

$username = $\_POST['username'];

$password =$\_POST['pwd'];

if (empty($username) || empty($password)){

header("Location: ../loginpage.php?error=emptyfield");

exit();

}else{

$mysqli = new mysqli( 'localhost', 'root', '', 'virtualscope' );

$sql ='SELECT uid, first\_name, last\_name, star\_id, username, password, user\_type FROM users WHERE username=?';

$stmt = $mysqli -> prepare($sql);

$stmt->bind\_param("s", $username);

$stmt->execute();

$stmt->store\_result();

$stmt->bind\_result($uid, $firsts\_name, $last\_name,$star\_id, $dbusername, $dbpwd, $user\_type);

$stmt->fetch();

/\* fetch values \*/

// printf("%s %s\n", $uid, $first\_name, $last\_name, $star\_id, $dbusername, $dbpwd, $user\_type);

$pwdCheck = password\_verify($password, $dbpwd);

if($pwdCheck == false){

header("Location: ../loginpage.php?error=wrongpwd");

exit();

}else if($pwdCheck == true){

//else if to make sure the pwd is actually valid

//start a session variable

//create a global variable of the user when they are sign into the

//website

session\_start();

$\_SESSION['id']=$uid;

$\_SESSION['name']=$first\_name;

$\_SESSION['username']=$dbusername;

$\_SESSION['userType']=$user\_type;

$\_SESSION['loggedIn'] = TRUE;

//TO DO: CODE TO SEND TO DATABASE TO TRACK LOGIN RECORD

$sql = "INSERT INTO logins VALUES (?, LOCALTIMESTAMP);";

$stmt2 = mysqli\_stmt\_init($conn);

if(!mysqli\_stmt\_prepare($stmt2, $sql)){

header("Location: ../loginpage.php?error=sqlerror");

exit();

}else{

//take infor from user gave us and put in the database

//passed in with stmt and the type string

mysqli\_stmt\_bind\_param($stmt2, "d", $\_SESSION['id']);

//passing more than one param

//($stmt, "ss", $username, $pwd)

//execute statment into the database

mysqli\_stmt\_execute($stmt2);

header("Location: ../homepage.php");

exit();

}

}else{

//in case it's not true or false

//rarely will happen

header("Location: ../loginpage.php?error=wrongpwd");

exit();

}

/\* close statement \*/

//$stmt->close();

}

// else{

// header("Location: ../loginpage.php?error=nouser");

// }

}else{

header("Location: ../index.php");

exit();

}

loginpage.php

<?php

require 'includes/sessionsconfig.inc.php';

?>

<!DOCTYPE html>

<html lang="en" >

<head>

<title>VirtualScope</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link href='https://fonts.googleapis.com/css?family=Roboto:400,700' rel='stylesheet' type='text/css'>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.1/css/all.css" integrity="sha384-gfdkjb5BdAXd+lj+gudLWI+BXq4IuLW5IT+brZEZsLFm++aCMlF1V92rMkPaX4PP" crossorigin="anonymous">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>

<link rel="stylesheet" href="styles/loginpage-style.css">

<link rel="stylesheet" href="styles/navbar-style.css">

</head>

<body>

<!-- Navigation Bar -->

<?php include 'navbar.php'; ?>

<!-- Login Form -->

<div id="logintop-jumbotron" class="jumbotron-fluid jumbotron bg-cover">

<div class="overlay"></div>

<div class="container">

<h1 class="display-3 mb-1">Log In</h1>

<p class="lead"><span>Log into your account</span></p>

</div>

</div>

<div class="container" style="margin-top:50px">

<div class="row justify-content-center">

<div class="col-xs-12 col-sm-10 col-md-8 col-lg-6">

<div id="login-jumbotron" class ="jumbotron" style="border-radius: 15px;">

<form id="login-form" method="POST" action="includes/login.inc.php" class="needs-validation" novalidate>

<label for="uname">Username:</label>

<div class="input-group mb-3">

<div class="input-group-append">

<span class="input-group-text"><i class="fas fa-user"></i></span>

</div>

<input type="text" class="form-control" id="uname" placeholder="Type your username" name="username" required>

<div class="invalid-feedback">Please fill out this field.</div>

</div>

<label for="pwd">Password:</label>

<div class="input-group mb-2">

<div class="input-group-append">

<span class="input-group-text"><i class="fas fa-key"></i></span>

</div>

<input type="password" class="form-control" id="pwd" placeholder="Type your password" name="pwd" required>

<div class="invalid-feedback">Please fill out this field.</div>

</div>

<button type="submit" class="btn" name="login-submit">Submit</button>

</form>

<div class="container text-right">

Dont have an account? <a href="signup.php">Sign up here!</a>

</div>

</div>

</div>

</div>

</div>

<!-- Footer -->

<?php include 'footer.php' ?>

</body>

</html>

<script>

// Disable form submissions if there are invalid fields

(function() {

'use strict';

window.addEventListener('load', function() {

// Get the forms we want to add validation styles to

var forms = document.getElementsByClassName('needs-validation');

// Loop over them and prevent submission

var validation = Array.prototype.filter.call(forms, function(form) {

form.addEventListener('submit', function(event) {

if (form.checkValidity() === false) {

event.preventDefault();

event.stopPropagation();

}

form.classList.add('was-validated');

}, false);

});

}, false);

})();

</script>

loginpage-style.css

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

font-family: "Roboto";

font-size: 14px;

background-size: 200% 200% !important;

-webkit-animation: move 10s ease infinite;

animation: move 10s ease infinite;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

background: linear-gradient(45deg, #49D49D 10%, #A2C7E5 90%);

height: 100vh;

}

.user {

width: 90%;

max-width: 340px;

margin: 10vh auto;

}

.user\_\_header {

text-align: center;

opacity: 0;

-webkit-transform: translate3d(0, 500px, 0);

transform: translate3d(0, 500px, 0);

-webkit-animation: arrive 500ms ease-in-out 0.7s forwards;

animation: arrive 500ms ease-in-out 0.7s forwards;

}

.user\_\_title {

font-size: 14px;

margin-bottom: -10px;

font-weight: 500;

color: white;

}

.form {

margin-top: 40px;

border-radius: 6px;

overflow: hidden;

opacity: 0;

-webkit-transform: translate3d(0, 500px, 0);

transform: translate3d(0, 500px, 0);

-webkit-animation: arrive 500ms ease-in-out 0.9s forwards;

animation: arrive 500ms ease-in-out 0.9s forwards;

}

.form--no {

-webkit-animation: NO 1s ease-in-out;

animation: NO 1s ease-in-out;

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

.form\_\_input {

display: block;

width: 100%;

padding: 20px;

font-family: "Roboto";

-webkit-appearance: none;

border: 0;

outline: 0;

transition: 0.3s;

}

.form\_\_input:focus {

background: #f7f7f7;

}

.btn {

display: block;

width: 100%;

padding: 20px;

font-family: "Roboto";

-webkit-appearance: none;

outline: 0;

border: 0;

color: white;

background: #A2C7E5;

transition: 0.3s;

}

.btn:hover {

color: white;

background: #49D49D;

}

@-webkit-keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@-webkit-keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@-webkit-keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

@keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

#login-container.jumbotron{

margin-top: 50px;

margin-bottom: 50px;

max-width: 500px !important;

}

.submit-btn{

width: 100%;

height: 50px;

border: none;

border-radius: 15px;

margin-top: 30px;

margin-bottom: 30px;

}

#login-jumbotron{

margin-top: 30px;

margin-bottom: 30px;

padding-top:2rem;

padding-bottom:2rem;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

}

#viewphoto-jumbo{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

padding-top: 1rem;

border-radius: 15px;

}

.img-thumbnail{

background-color: #e9ecef;

border-width: 2px;

}

.videoWrapper {

position: relative;

padding-bottom: 56.25%; /\* 16:9 \*/

padding-top: 0px;

height: 0;

}

.videoWrapper iframe {

position: absolute;

top: 0;

left: 0;

width: 100%;

height: 100%;

}

#home-jumbotron {

text-align: center;

padding-top: 10rem;

padding-bottom: 10rem;

text-shadow: 2px 2px #000;

}

#logintop-jumbotron{

text-align: center;

padding-top: 3rem;

padding-bottom: 3rem;

text-shadow: 2px 2px #000;

}

.lead span {

color: #A2C7E5;

font-weight: bold;

}

.bg-cover {

background-image: url("images/microscope-ocular-lenses.jpg");

background-size: cover;

color: white;

background-position: center center;

position: relative;

z-index: -2;

}

.overlay {

background-color: #000;

opacity: 0.5;

position: absolute;

top: 0;

left: 0;

bottom: 0;

right: 0;

z-index: -1;

}

.card-body .img-thumbnail {

margin-top: 5px;

margin-bottom: 5px;

}

logout.inc.php

<?php

session\_start();

//deletes all the values in thesession variables

session\_unset();

session\_destroy();

header("Location: ../index.php");

exit();

microscopeconfig.php

<?php

require 'includes/sessionsconfig.inc.php';

if($userType != "admin"){

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title>VirtualScope</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link href='https://fonts.googleapis.com/css?family=Roboto:400,700' rel='stylesheet' type='text/css'>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.1/css/all.css" integrity="sha384-gfdkjb5BdAXd+lj+gudLWI+BXq4IuLW5IT+brZEZsLFm++aCMlF1V92rMkPaX4PP" crossorigin="anonymous">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>

<link rel="stylesheet" href="styles/scopeconfig-style.css">

<link rel="stylesheet" href="styles/navbar-style.css">

</head>

<body>

<!-- Navigation -->

<?php include 'navbar.php' ?>

<!-- Content -->

<div class="container" style="margin-top:30px">

<div class="card" style="margin-bottom:30px">

<div class="card-header">

Microscope Configurations

<a href="adminpanel.php" style="float: right;">Back to admin panel</a>

</div>

<div class="card-body">

<div class="container">

<div class="row">

<div class="table-responsive">

<?php include "includes/dbh.inc.php";

$sql = "SELECT \* FROM microscopes";

$i = 0;

if($result = mysqli\_query($conn, $sql)){

$numberOfRows = mysqli\_num\_rows($result);

if(mysqli\_num\_rows($result) > 0){

echo "<table class=\"table table-striped text-center\">";

echo "<tr>";

echo "<th class=\"text-center\">Microscope name</th>";

echo "<th class=\"text-center\">Experiment name</th>";

echo "<th class=\"text-center\">Course name</th>";

echo "<th class=\"text-center\">Availability</th>";

echo "<th class=\"text-center\">Photo Interval</th>";

echo "<th class=\"text-center\">State</th>";

echo "<th class=\"text-center\"></th>";

echo "</tr>";

while($row = mysqli\_fetch\_array($result)){

echo "<form id=\"microscope-form". $i++ ."\" method=\"POST\" action=\"editmicroscope.php\" class=\"form-horizontal\">";

echo '<input type="hidden" id="microscopeID" name="mid" value="'. $row['mid'] . '">';

echo "<tr>";

echo "<td>" . $row['microscope\_name'] . "</td>";

echo "<td>" . $row['experiment\_name'] . "</td>";

echo "<td>" . $row['course\_name'] . "</td>";

echo "<td>" . $row['availability'] . "</td>";

echo "<td>" . $row['picture\_time\_increment'] . "</td>";

echo "<td>" . $row['state'] . "</td>";

echo "<td><button type=\"submit\" class=\"btn\" name=\"editscope-submit\">Edit</button></td>";

echo "</tr>";

echo "</form>";

}

echo "</table>";

// Free result set

mysqli\_free\_result($result);

} else{

echo "No records matching your query were found.";

}

} else{

echo "ERROR: Could not able to execute $sql. " . mysqli\_error($conn);

}

?>

</div>

<form id="add-microscope" method="POST" action="includes/addscope.inc.php">

<input type="hidden" id="nextNumber" name="next\_microscope\_number" value="<?php echo ++$numberOfRows ?>">

<button type="submit" class="btn" name="addscope-submit">Add Microscope</button>

</form>

</div>

</div>

</div>

</div>

</div>

<?php

// Close connection

mysqli\_close($conn);

?>

</body>

</html>

navbar.php

<?php

$homepath = 'http://'.$\_SERVER['SERVER\_NAME'].'/';

?>

<nav class="navbar navbar-expand-sm bg-dark navbar-dark">

<div class="container">

<a class="navbar-brand" href="<?php echo $homepath?>"><img src="<?php echo $homepath?>images/logo2.png" width=140 height=30></a>

<button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#collapsibleNavbar">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="collapsibleNavbar">

<ul class="navbar-nav">

<li class="nav-item">

<a class="nav-link" href="<?php echo $homepath?>index.php">About</a>

</li>

<li class="nav-item">

<a class="nav-link" href="<?php echo $homepath?>homepage.php">Experiments</a>

</li>

<!-- TODO

<li class="nav-item">

<a class="nav-link" href="<?php echo $homepath?>viewphoto2.php">Archive</a>

</li>

-->

</ul>

<?php

if($loggedIn){

echo'

<ul class="navbar-nav ml-auto">

<li class="nav-text"><i class="fas fa-user"></i>

'. $username .'

</li>';

if($userType == "admin"){

echo'

<li class="nav-item">

<a class="nav-link" href="'.$homepath.'adminpanel.php">AdminPanel</a>

</li>';

}

echo'

<li class="nav-item">

<a class="nav-link" href="'.$homepath.'includes/logout.inc.php">Log Out</a>

</li>

</ul>';

} else{

echo'

<ul class="navbar-nav ml-auto">

<li class="nav-item">

<a class="nav-link" href="'.$homepath.'loginpage.php">Login</a>

</li>

<li class="nav-item">

<a class="nav-link" href="'.$homepath.'signup.php">Sign up</a>

</li>

</ul>';

}

?>

</div>

</div>

</nav>

navbar-style.css

.bg-cover {

background-image: url("../images/microscope-ocular-lenses.jpg");

background-size: cover;

color: white;

background-position: center center;

position: relative;

z-index: -2;

}

.navbar-transparent{

background-color: rgba(255,255,255,.1);

text-shadow: none;

}

#nav2-jumbotron {

height: 100px;

text-align: center;

padding-top: 20px;

padding-bottom: 20px;

margin-top: 0px;

margin-bottom: 0px;

}

.navbar-brand{

margin-right: 0px !important;

}

.bg-dark{

background-color: #2a2c2e!important;

}

.navbar-dark .navbar-nav .nav-link {

color: rgba(255,255,255,.75);

}

.navbar-dark .navbar-nav .nav-link:hover {

color: rgba(255,255,255,1);

}

.nav-text{

display: block;

padding: .5rem .5rem;

padding-top: 0.5rem;

padding-right: .5rem;

padding-bottom: 0.5rem;

padding-left: .5rem;

color: rgba(255,255,255,1);

}

footer {

padding-top: 30px;

padding-bottom: 10px;

margin-top: 100px;

height: 130px;

width: 100%;

overflow: hidden;

}

.footer a{

color: #6c757d;

}

.footer a:hover{

color: #91989e;

text-decoration: none;

}

photopage-style.css

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

font-family: "Roboto";

font-size: 14px;

background-size: 200% 200% !important;

-webkit-animation: move 10s ease infinite;

animation: move 10s ease infinite;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

background: linear-gradient(45deg, #49D49D 10%, #A2C7E5 90%);

height: 100vh;

}

.user {

width: 90%;

max-width: 340px;

margin: 10vh auto;

}

.user\_\_header {

text-align: center;

opacity: 0;

-webkit-transform: translate3d(0, 500px, 0);

transform: translate3d(0, 500px, 0);

-webkit-animation: arrive 500ms ease-in-out 0.7s forwards;

animation: arrive 500ms ease-in-out 0.7s forwards;

}

.user\_\_title {

font-size: 14px;

margin-bottom: -10px;

font-weight: 500;

color: white;

}

.form {

margin-top: 40px;

border-radius: 6px;

overflow: hidden;

opacity: 0;

-webkit-transform: translate3d(0, 500px, 0);

transform: translate3d(0, 500px, 0);

-webkit-animation: arrive 500ms ease-in-out 0.9s forwards;

animation: arrive 500ms ease-in-out 0.9s forwards;

}

.form--no {

-webkit-animation: NO 1s ease-in-out;

animation: NO 1s ease-in-out;

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

.form\_\_input {

display: block;

width: 100%;

padding: 20px;

font-family: "Roboto";

-webkit-appearance: none;

border: 0;

outline: 0;

transition: 0.3s;

}

.form\_\_input:focus {

background: #f7f7f7;

}

.btn {

display: block;

width: 100%;

padding: 20px;

font-family: "Roboto";

-webkit-appearance: none;

outline: 0;

border: 0;

color: white;

background: #A2C7E5;

transition: 0.3s;

}

.btn:hover {

color: white;

background: #49D49D;

}

@-webkit-keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@-webkit-keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@-webkit-keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

@keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

#login-container.jumbotron{

margin-top: 50px;

margin-bottom: 50px;

max-width: 500px !important;

}

.submit-btn{

width: 100%;

height: 50px;

border: none;

border-radius: 15px;

margin-top: 30px;

margin-bottom: 30px;

}

#login-form{

margin-top: 50px;

}

#login-jumbotron{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

}

#viewphoto-jumbo{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

padding-top: 1rem;

border-radius: 15px;

}

.img-thumbnail{

background-color: #e9ecef;

border-width: 2px;

}

.videoWrapper {

position: relative;

padding-bottom: 56.25%; /\* 16:9 \*/

padding-top: 0px;

height: 0;

}

.videoWrapper iframe {

position: absolute;

top: 0;

left: 0;

width: 100%;

height: 100%;

}

#home-jumbotron {

text-align: center;

padding-top: 10rem;

padding-bottom: 10rem;

text-shadow: 2px 2px #000;

}

.lead span {

color: #A2C7E5;

font-weight: bold;

}

.bg-cover {

background-image: url("images/microscope-ocular-lenses.jpg");

background-size: cover;

color: white;

background-position: center center;

position: relative;

z-index: -2;

}

.overlay {

background-color: #000;

opacity: 0.5;

position: absolute;

top: 0;

left: 0;

bottom: 0;

right: 0;

z-index: -1;

}

.card-body .img-thumbnail {

margin-top: 5px;

margin-bottom: 5px;

}

raspistream2picam.py

import os

import subprocess

import ftplib

from picamera import PiCamera

from time import sleep

import mysql.connector

from mysql.connector import Error

#Define time formatting function

def format\_time(minutes):

secs = minutes \* 60

mins, secs = divmod(secs, 60)

hours, mins = divmod(mins, 60)

return '%02d:%02d:%02d ' % (hours, mins, secs)

#Define the microscope name !!IMPORTANT!!

my\_name = 'microscope1'

#Establish the database connection

try:

connection = mysql.connector.connect(host='50.87.144.72',

database='teampuma\_virtualscope',

user='teampuma\_ryan',

password='ICS499')

if connection.is\_connected():

#Select the time increment from the microscopes table

cursor = connection.cursor()

select\_stmt = "SELECT picture\_time\_increment FROM microscopes WHERE microscope\_name = %(microscope\_name)s"

cursor.execute(select\_stmt, { 'microscope\_name': my\_name })

time\_increment = cursor.fetchone()[0]

print("The time increment is:", time\_increment)

#Error connecting -> Use default time\_increment

except Error as e:

print("Error while connecting to MySQL", e)

time\_increment = 10

#Close the database connection

finally:

if (connection.is\_connected()):

cursor.close()

connection.close()

print("MySQL connection is closed")

#Connect to FTP server for file uploading

ftp = ftplib.FTP()

host = "ftp.virtualscope.site"

port = 21

ftp.connect(host, port)

ftp.login("teampuma","1#%ekd%YlaG\*")

ftp.cwd("public\_html/images/microscope1/")

#The interval between images in HH:MM:SS format

#The SPACE at the end is important!

image\_interval = format\_time(time\_increment)

#Youtube stream link

stream\_link = "rtmp://a.rtmp.youtube.com/live2/0d18-twub-tqg7-3t7w"

#The concatonated command for streaming

stream\_command = "raspivid -o - -t 0 -w 1280 -h 720 -fps 30 -b 6000000 | ffmpeg -re -f s16le -ac 2 -i /dev/zero -f h264 -i - -vcodec copy -g 50 -strict experimental -f flv -t " + imageInterval + streamLink

#Image number initialized to zero

image\_number = 0

#Picture Folder

pic\_folder = "/home/pi/MicroscopeImages/"

while True:

#Run stream for designated time interval

subprocess.call(stream\_command, shell=True)

#Define picture path and capture photo

picture\_name = "pic" + str(image\_number) + ".jpg"

picture\_path = pic\_folder + picture\_name

camera = PiCamera()

sleep(0.5)

camera.capture(picture\_path)

camera.close()

#Send pic via ftp

file = open(picture\_path,"rb") # file to send

ftp.storbinary("STOR " + picture\_name, file) # send the file

file.close() # close file and FTP

image\_number += 1

scopeconfig-style.css

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

font-family: "Roboto";

font-size: 14px;

background-size: 200% 200% !important;

-webkit-animation: move 10s ease infinite;

animation: move 10s ease infinite;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

background: linear-gradient(45deg, #49D49D 10%, #A2C7E5 90%);

height: 100vh;

}

.user {

width: 90%;

max-width: 340px;

margin: 10vh auto;

}

.user\_\_header {

text-align: center;

opacity: 0;

-webkit-transform: translate3d(0, 500px, 0);

transform: translate3d(0, 500px, 0);

-webkit-animation: arrive 500ms ease-in-out 0.7s forwards;

animation: arrive 500ms ease-in-out 0.7s forwards;

}

.user\_\_title {

font-size: 14px;

margin-bottom: -10px;

font-weight: 500;

color: white;

}

.form {

margin-top: 40px;

border-radius: 6px;

overflow: hidden;

opacity: 0;

-webkit-transform: translate3d(0, 500px, 0);

transform: translate3d(0, 500px, 0);

-webkit-animation: arrive 500ms ease-in-out 0.9s forwards;

animation: arrive 500ms ease-in-out 0.9s forwards;

}

.form--no {

-webkit-animation: NO 1s ease-in-out;

animation: NO 1s ease-in-out;

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

.form-control {

font-size: 12px;

}

.btn {

display: block;

width: 100%;

font-family: "Roboto";

text-align: center;

outline: 0;

border: 0;

color: white;

background: #A2C7E5;

transition: 0.3s;

}

.btn:hover {

color: white;

background: #49D49D;

}

@-webkit-keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@-webkit-keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@-webkit-keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

@keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

#login-container.jumbotron{

margin-top: 50px;

margin-bottom: 50px;

max-width: 500px !important;

}

.submit-btn{

width: 100%;

height: 30px;

border: none;

border-radius: 15px;

margin-top: 30px;

margin-bottom: 30px;

}

#login-form{

margin-top: 50px;

}

#login-jumbotron{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

}

#viewphoto-jumbo{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

padding-top: 1rem;

border-radius: 15px;

}

.img-thumbnail{

background-color: #e9ecef;

border-width: 2px;

}

.videoWrapper {

position: relative;

padding-bottom: 56.25%; /\* 16:9 \*/

padding-top: 0px;

height: 0;

}

.videoWrapper iframe {

position: absolute;

top: 0;

left: 0;

width: 100%;

height: 100%;

}

#home-jumbotron {

text-align: center;

padding-top: 10rem;

padding-bottom: 10rem;

text-shadow: 2px 2px #000;

}

.lead span {

color: #A2C7E5;

font-weight: bold;

}

.bg-cover {

background-image: url("images/microscope-ocular-lenses.jpg");

background-size: cover;

color: white;

background-position: center center;

position: relative;

z-index: -2;

}

.overlay {

background-color: #000;

opacity: 0.5;

position: absolute;

top: 0;

left: 0;

bottom: 0;

right: 0;

z-index: -1;

}

.card-body .img-thumbnail {

margin-top: 5px;

margin-bottom: 5px;

}

.table td {

vertical-align: middle;

}

.form-group{

margin-right:10px;

}

scipt.js

const button = document.querySelector('.btn')

const form = document.querySelector('.form')

button.addEventListener('click', function() {

form.classList.add('form--no')

});

sessionsconfig.inc.php

<?php

session\_start(); //start the session

$username = isset($\_SESSION['username']) ? $\_SESSION['username'] : 'Guest';

$name = isset($\_SESSION['name']) ? $\_SESSION['name'] : 'Guest';

$loggedIn = isset($\_SESSION['loggedIn']) ? $\_SESSION['loggedIn'] : FALSE;

$userType = isset($\_SESSION['userType']) ? $\_SESSION['userType'] : 'none';

?>

signup.inc.php

<?php

if (isset($\_POST['signup-submit'])) {

require 'dbh.inc.php';

//fetch info from the sign up form from user

$firstname = $\_POST['firstname'];

$lastname = $\_POST['lastname'];

$classpwd = $\_POST['classpwd'];

$username = $\_POST['uid'];

$password = $\_POST['pwd'];

$starid = $\_POST['starid'];

$passwordRepeat = $\_POST['pwd-repeat'];

//hard coded login type because majority of the time

//a new account created will be a student or non admin users

$userType = "student";

//checks to see if classpwd is not empty then

//runs a db query to check to see if it exist

//if exist the code will count the rows

//the value should always be 1

if (!empty($classpwd)) {

$sql = "SELECT class\_password from class\_passwords where class\_password=?";

$stmt = mysqli\_stmt\_init($conn);

if(!mysqli\_stmt\_prepare($stmt, $sql)){

header("Location: ../signup.php?error=sqlerror");

exit();

}else{

//take infor from user gave us and put in the database

//passed in with stmt and the type string

mysqli\_stmt\_bind\_param($stmt, "s", $classpwd);

//passing more than one param

//($stmt, "ss", $username, $pwd)

//execute statment into the database

mysqli\_stmt\_execute($stmt);

//now need to check if there is a match

//by storing results in $stmt

mysqli\_stmt\_store\_result($stmt);

$classPwdCheck = mysqli\_stmt\_num\_rows($stmt);

//should be 1 if classpassword matches

}

//user input error handling

//checks to see if fields are empty

if(empty($username) || empty($firstname) || empty($password) ||empty($starid) || empty($lastname) ||empty($passwordRepeat) || empty($classpwd)){

header("Location: ../signup.php?error=emptyfields&uid=".$username."&starid".$starid);

exit();

}else if($classPwdCheck == 0) {

header("Location: ../signup.php?error=classplassword");

exit();

}else if($password !== $passwordRepeat){

//checks to see if password and repeatpassword are the same

header("Location: ../signup.php?error=passwordcheck&uid=".$username."&starid".$starid);

exit();

}else{

//not in else if because will need to check at all time to

//make sure the user does not use a username already in used

//done in a safe way with prepared statement without risking security

//done so with place holder ?

$sql = "SELECT username FROM users WHERE username=?";

$stmt = mysqli\_stmt\_init($conn);

if(!mysqli\_stmt\_prepare($stmt, $sql)){

header("Location: ../signup.php?error=sqlerror");

exit();

}else{

//take infor from user gave us and put in the database

//passed in with stmt and the type string

mysqli\_stmt\_bind\_param($stmt, "s", $username);

//passing more than one param

//($stmt, "ss", $username, $pwd)

//execute statment into the database

mysqli\_stmt\_execute($stmt);

//now need to check if there is a match

//by storing results in $stmt

mysqli\_stmt\_store\_result($stmt);

$usernameCheck = mysqli\_stmt\_num\_rows($stmt);

//should be zero or 1

if ($usernameCheck>0) {

header("Location: ../signup.php?error=usertaken&starid=".$starid);

exit();

}else{

$sql = "INSERT INTO users (first\_name, last\_name, star\_id, password, username, user\_type) VALUES (?,?,?,?,?,?)";

$stmt = mysqli\_stmt\_init($conn);

if(!mysqli\_stmt\_prepare($stmt, $sql)){

header("Location: ../signup.php?error=sqlerror");

exit();

}else{

//hash password first then insert new user info record

//hashing with b crypt

//don't use outdated hasing such as SHA or MD6

$hashPwd = password\_hash($password, PASSWORD\_DEFAULT);

mysqli\_stmt\_bind\_param($stmt, "ssssss", $firstname, $lastname, $starid, $hashPwd,$username, $userType);

mysqli\_stmt\_execute($stmt);

header("Location: ../index.php");

exit();

}

}

}

}

}

msqli\_stmt\_close($stmt);

msqli\_close($conn);

}

else{

//if user did not access the page through the normal way without clicking the signup button

header("Location: ../signup.php");

exit();

}

signup.php

<?php

require 'includes/sessionsconfig.inc.php';

?>

<!DOCTYPE html>

<html lang="en" >

<head>

<meta charset="UTF-8">

<title>VirtualScope</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

<link href='https://fonts.googleapis.com/css?family=Roboto:400,700' rel='stylesheet' type='text/css'>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.min.css">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>

<link rel="stylesheet" href="styles/signuppage-style.css">

<link rel="stylesheet" href="styles/navbar-style.css">

</head>

<body>

<!-- Navigation -->

<?php include 'navbar.php' ?>

<!-- Content -->

<div id="signup-jumbotron" class="jumbotron-fluid jumbotron bg-cover">

<div class="overlay"></div>

<div class="container">

<h1 class="display-3 mb-1">Sign Up!</h1>

<p class="lead"><span>Create a VirtualScope account</span></p>

</div>

</div>

<div class="container" style="margin-top:30px">

<div class ="row justify-content-center">

<div class="col-xs-12 col-md-6">

<form class="form-signup" action="includes/signup.inc.php" method="post">

<div class="form\_\_group">

<input type="text" name = "firstname" placeholder="First Name" class="form\_\_input" />

<input type="text" name = "lastname" placeholder="Last Name" class="form\_\_input" />

<input type="text" name = "starid" placeholder="StarId" class="form\_\_input" />

<input type="password" name="classpwd" placeholder="Class Password" class="form\_\_input" />

<input type="text" name = "uid" placeholder="Username" class="form\_\_input" />

<input type="password" name = "pwd" placeholder="Password" class="form\_\_input" />

<input type="Password" name = "pwd-repeat" placeholder="Repeat Password" class="form\_\_input" />

</div>

<button class="btn" name = "signup-submit" type="submit">Submit</button><br>

</form>

</div>

</div>

</div>

<!-- Footer -->

<?php include 'footer.php' ?>

</body>

</html>

signuppage-style.css

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

font-family: "Roboto";

font-size: 14px;

background-size: 200% 200% !important;

-webkit-animation: move 10s ease infinite;

animation: move 10s ease infinite;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

background: linear-gradient(45deg, #49D49D 10%, #a2c7e5 90%);

height: 100vh;

}

.user {

width: 90%;

max-width: 340px;

margin: 10vh auto;

}

.user\_\_header {

text-align: center;

opacity: 0;

-webkit-transform: translate3d(0, 500px, 0);

transform: translate3d(0, 500px, 0);

-webkit-animation: arrive 500ms ease-in-out 0.7s forwards;

animation: arrive 500ms ease-in-out 0.7s forwards;

}

.user\_\_title {

font-size: 14px;

margin-bottom: -10px;

font-weight: 500;

color: white;

}

.form {

margin-top: 40px;

border-radius: 6px;

overflow: hidden;

opacity: 0;

-webkit-transform: translate3d(0, 500px, 0);

transform: translate3d(0, 500px, 0);

-webkit-animation: arrive 500ms ease-in-out 0.9s forwards;

animation: arrive 500ms ease-in-out 0.9s forwards;

}

.form--no {

-webkit-animation: NO 1s ease-in-out;

animation: NO 1s ease-in-out;

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

.form\_\_input {

display: block;

width: 100%;

padding: 20px;

font-family: "Roboto";

-webkit-appearance: none;

border: 0;

outline: 0;

transition: 0.3s;

}

.form\_\_input:focus {

background: #f7f7f7;

}

.btn {

display: block;

width: 100%;

height:80px;

font-family: "Roboto";

text-align: center;

outline: 0;

border: 0;

color: white;

background: #A2C7E5;

transition: 0.3s;

}

.btn:hover {

color: white;

background: #49D49D;

}

@-webkit-keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@-webkit-keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@-webkit-keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

@keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

#login-container.jumbotron{

margin-top: 50px;

margin-bottom: 50px;

max-width: 500px !important;

}

.submit-btn{

width: 100%;

height: 50px;

border: none;

border-radius: 15px;

margin-top: 30px;

margin-bottom: 30px;

}

#login-form{

margin-top: 50px;

}

#login-jumbotron{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

}

#viewphoto-jumbo{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

padding-top: 1rem;

border-radius: 15px;

}

.img-thumbnail{

background-color: #e9ecef;

border-width: 2px;

}

.videoWrapper {

position: relative;

padding-bottom: 56.25%; /\* 16:9 \*/

padding-top: 0px;

height: 0;

}

.videoWrapper iframe {

position: absolute;

top: 0;

left: 0;

width: 100%;

height: 100%;

}

#home-jumbotron {

text-align: center;

padding-top: 5rem;

padding-bottom: 5rem;

text-shadow: 2px 2px #000;

}

#splash-jumbotron {

text-align: center;

padding-top: 10rem;

padding-bottom: 10rem;

text-shadow: 2px 2px #000;

}

#signup-jumbotron {

text-align: center;

padding-top: 3rem;

padding-bottom: 3rem;

text-shadow: 2px 2px #000;

}

#login-jumbotron {

text-align: center;

padding-top: 3rem;

padding-bottom: 3rem;

text-shadow: 2px 2px #000;

}

.lead span {

color: #A2C7E5;

font-weight: bold;

}

.bg-cover {

background-image: url("images/microscope-ocular-lenses.jpg");

background-size: cover;

color: white;

background-position: center center;

position: relative;

z-index: -2;

}

.overlay {

background-color: #000;

opacity: 0.5;

position: absolute;

top: 0;

left: 0;

bottom: 0;

right: 0;

z-index: -1;

}

.card-body .img-thumbnail {

margin-top: 5px;

margin-bottom: 5px;

}

streampage-style.css

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

font-family: "Roboto";

font-size: 14px;

background-size: 200% 200% !important;

-webkit-animation: move 10s ease infinite;

animation: move 10s ease infinite;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

background: linear-gradient(45deg, #49D49D 10%, #A2C7E5 90%);

height: 100vh;

}

.btn {

display: block;

width: 100%;

padding: 20px;

font-family: "Roboto";

-webkit-appearance: none;

outline: 0;

border: 0;

color: white;

background: #A2C7E5;

transition: 0.3s;

}

.btn:hover {

color: white;

background: #49D49D;

}

.card-body a{

color: #A2C7E5;

}

.card-body a:hover{

color: #49D49D;

}

@-webkit-keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@-webkit-keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@-webkit-keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

@keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

#login-container.jumbotron{

margin-top: 50px;

margin-bottom: 50px;

max-width: 500px !important;

}

.submit-btn{

width: 100%;

height: 50px;

border: none;

border-radius: 15px;

margin-top: 30px;

margin-bottom: 30px;

}

#login-form{

margin-top: 50px;

}

#login-jumbotron{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

}

#viewphoto-jumbo{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

padding-top: 1rem;

border-radius: 15px;

}

.img-thumbnail{

background-color: #e9ecef;

border-width: 2px;

}

.videoWrapper {

position: relative;

padding-bottom: 56.25%; /\* 16:9 \*/

padding-top: 0px;

height: 0;

}

.videoWrapper iframe {

position: absolute;

top: 0;

left: 0;

width: 100%;

height: 100%;

}

#home-jumbotron {

text-align: center;

padding-top: 10rem;

padding-bottom: 10rem;

text-shadow: 2px 2px #000;

}

.lead span {

color: #A2C7E5;

font-weight: bold;

}

.bg-cover {

background-image: url("images/microscope-ocular-lenses.jpg");

background-size: cover;

color: white;

background-position: center center;

position: relative;

z-index: -2;

}

.overlay {

background-color: #000;

opacity: 0.5;

position: absolute;

top: 0;

left: 0;

bottom: 0;

right: 0;

z-index: -1;

}

.card-body .img-thumbnail {

margin-top: 5px;

margin-bottom: 5px;

}

.video { position: relative; padding-bottom: 56.25%; /\* 16:9 \*/ height: 0; }

.video img { position: absolute; display: block; top: 0; left: 0; width: 100%; height: 100%; z-index: 20; cursor: pointer; }

.video:after { content: ""; position: absolute; display: block;

background: url(images/play-button.png) no-repeat 0 0;

top: 45%; left: 45%; width: 46px; height: 36px; z-index: 30; cursor: pointer; }

.video iframe { position: absolute; top: 0; left: 0; width: 100%; height: 100%; }

/\* image poster clicked, player class added using js \*/

.video.player img { display: none; }

.video.player:after { display: none; }

tracklogin.php

<?php

require 'includes/sessionsconfig.inc.php';

if($userType != "admin"){

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en" >

<head>

<meta charset="UTF-8">

<title>VirtualScope</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

<link href='https://fonts.googleapis.com/css?family=Roboto:400,700' rel='stylesheet' type='text/css'>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.min.css">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>

<link rel="stylesheet" href="styles/scopeconfig-style.css">

<link rel="stylesheet" href="styles/navbar-style.css">

</head>

<body>

<!-- Navigation Bar -->

<?php include 'navbar.php'; ?>

<div class="container" style="margin-top:30px">

<div class="card" style="margin-bottom:30px">

<div class="card-header">

VirtualScope User Login History

<a href="adminpanel.php" style="float: right;">Back to admin panel</a>

</div>

<div class="card-body">

<div class="container">

<!-- Seach by StarID -->

<div class="container" style="margin-top:1px">

<h5>Search by StarID</h5>

<form id="search-login" class="form-inline" action="tracklogin.php" method="post">

<div class="form-group">

<input type="text" name = "star\_ID" placeholder="StarID" class="form\_\_input" />

</div>

<div class="form-group">

<button class="btn" name="search-submit" type="submit" class="form\_\_input" >Search</button>

</div>

</form>

</div>

<!--Display search result-->

<div class="card" style="margin-bottom:30px">

<div class="card-header">

Search Result

</div>

<div class="card-body">

<div class="container">

<div class="row">

<div class="table-responsive">

<?php include "includes/dbh.inc.php";

if (isset($\_POST['search-submit'])) {

//fetch info from admin

$starID = $\_POST['star\_ID'];

$sql = "SELECT first\_name, last\_name, star\_id, user\_type, timestamp FROM logins, users

WHERE logins.uid = users.uid

AND users.star\_id ='$starID'

ORDER BY timestamp DESC";

if($result = mysqli\_query($conn, $sql)){

if(mysqli\_num\_rows($result) > 0){

echo "<table class=\"table table-striped text-center\">";

echo "<tr>";

echo "<th class=\"text-center\">First Name</th>";

echo "<th class=\"text-center\">Last name</th>";

echo "<th class=\"text-center\">StarID</th>";

echo "<th class=\"text-center\">User Type</th>";

echo "<th class=\"text-center\">Timestamp</th>";

echo "</tr>";

while($row = mysqli\_fetch\_array($result)){

echo "<tr>";

echo "<td>" . $row['first\_name'] . "</td>";

echo "<td>" . $row['last\_name'] . "</td>";

echo "<td>" . $row['star\_id'] . "</td>";

echo "<td>" . $row['user\_type'] . "</td>";

echo "<td>" . $row['timestamp'] . "</td>";

echo "</tr>";

}

echo "</table>";

// Free result set

mysqli\_free\_result($result);

} else{

echo "No records matching your query were found.";

}

} else{

echo "ERROR: Could not able to execute $sql. " . mysqli\_error($conn);

}

// Close connection

mysqli\_close($conn);

}

?>

</div>

</div>

</div>

</div>

</div>

<div class="card" style="margin-bottom:30px">

<div class="card-header">

VirtualScope Login History

</div>

<div class="card-body">

<div class="container">

<div class="row">

<div class="table-responsive">

<?php include "includes/dbh.inc.php";

$sql = "SELECT first\_name, last\_name, star\_id, user\_type, timestamp FROM logins, users

WHERE logins.uid = users.uid ORDER BY timestamp DESC;";

//$i = 0;

if($result = mysqli\_query($conn, $sql)){

if(mysqli\_num\_rows($result) > 0){

echo "<table class=\"table table-striped text-center\">";

echo "<tr>";

echo "<th class=\"text-center\">First Name</th>";

echo "<th class=\"text-center\">Last name</th>";

echo "<th class=\"text-center\">StarID</th>";

echo "<th class=\"text-center\">User Type</th>";

echo "<th class=\"text-center\">Timestamp</th>";

echo "</tr>";

while($row = mysqli\_fetch\_array($result)){

echo "<tr>";

echo "<td>" . $row['first\_name'] . "</td>";

echo "<td>" . $row['last\_name'] . "</td>";

echo "<td>" . $row['star\_id'] . "</td>";

echo "<td>" . $row['user\_type'] . "</td>";

echo "<td>" . $row['timestamp'] . "</td>";

echo "</tr>";

}

echo "</table>";

// Free result set

mysqli\_free\_result($result);

} else{

echo "No records matching your query were found.";

}

} else{

echo "ERROR: Could not able to execute $sql. " . mysqli\_error($conn);

}

// Close connection

mysqli\_close($conn);

?>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</div>

</body>

</html>

tracklogin-style.css

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

font-family: "Roboto";

font-size: 14px;

background-size: 200% 200% !important;

-webkit-animation: move 10s ease infinite;

animation: move 10s ease infinite;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

background: linear-gradient(45deg, #49D49D 10%, #A2C7E5 90%);

height: 100vh;

}

.user {

width: 90%;

max-width: 340px;

margin: 10vh auto;

}

.user\_\_header {

text-align: center;

opacity: 0;

-webkit-transform: translate3d(0, 500px, 0);

transform: translate3d(0, 500px, 0);

-webkit-animation: arrive 500ms ease-in-out 0.7s forwards;

animation: arrive 500ms ease-in-out 0.7s forwards;

}

.user\_\_title {

font-size: 14px;

margin-bottom: -10px;

font-weight: 500;

color: white;

}

.form {

margin-top: 40px;

border-radius: 6px;

overflow: hidden;

opacity: 0;

-webkit-transform: translate3d(0, 500px, 0);

transform: translate3d(0, 500px, 0);

-webkit-animation: arrive 500ms ease-in-out 0.9s forwards;

animation: arrive 500ms ease-in-out 0.9s forwards;

}

.form--no {

-webkit-animation: NO 1s ease-in-out;

animation: NO 1s ease-in-out;

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

.form-control {

font-size: 12px;

}

.btn {

display: block;

width: 100%;

font-family: "Roboto";

text-align: center;

outline: 0;

border: 0;

color: white;

background: #A2C7E5;

transition: 0.3s;

}

.btn:hover {

color: white;

background: #49D49D;

}

@-webkit-keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@keyframes NO {

from, to {

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

10%, 30%, 50%, 70%, 90% {

-webkit-transform: translate3d(-10px, 0, 0);

transform: translate3d(-10px, 0, 0);

}

20%, 40%, 60%, 80% {

-webkit-transform: translate3d(10px, 0, 0);

transform: translate3d(10px, 0, 0);

}

}

@-webkit-keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@keyframes arrive {

0% {

opacity: 0;

-webkit-transform: translate3d(0, 50px, 0);

transform: translate3d(0, 50px, 0);

}

100% {

opacity: 1;

-webkit-transform: translate3d(0, 0, 0);

transform: translate3d(0, 0, 0);

}

}

@-webkit-keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

@keyframes move {

0% {

background-position: 0 0;

}

50% {

background-position: 100% 0;

}

100% {

background-position: 0 0;

}

}

#login-container.jumbotron{

margin-top: 50px;

margin-bottom: 50px;

max-width: 500px !important;

}

.submit-btn{

width: 100%;

height: 30px;

border: none;

border-radius: 15px;

margin-top: 30px;

margin-bottom: 30px;

}

#login-form{

margin-top: 50px;

}

#login-jumbotron{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

}

#viewphoto-jumbo{

margin-top: 30px;

margin-bottom: 30px;

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

font-size: 16px;

padding-top: 1rem;

border-radius: 15px;

}

.img-thumbnail{

background-color: #e9ecef;

border-width: 2px;

}

.videoWrapper {

position: relative;

padding-bottom: 56.25%; /\* 16:9 \*/

padding-top: 0px;

height: 0;

}

.videoWrapper iframe {

position: absolute;

top: 0;

left: 0;

width: 100%;

height: 100%;

}

#home-jumbotron {

text-align: center;

padding-top: 10rem;

padding-bottom: 10rem;

text-shadow: 2px 2px #000;

}

.lead span {

color: #A2C7E5;

font-weight: bold;

}

.bg-cover {

background-image: url("images/microscope-ocular-lenses.jpg");

background-size: cover;

color: white;

background-position: center center;

position: relative;

z-index: -2;

}

.overlay {

background-color: #000;

opacity: 0.5;

position: absolute;

top: 0;

left: 0;

bottom: 0;

right: 0;

z-index: -1;

}

.card-body .img-thumbnail {

margin-top: 5px;

margin-bottom: 5px;

}

updatescope.inc.php

<?php

if(isset($\_POST['updatescope-submit'])){

require 'dbh.inc.php';

//get the post variables

$mID = $\_POST['mid'];

$microscopeName = $\_POST['microscope\_name'];

$experimentName = $\_POST['experiment\_name'];

$courseName = $\_POST['course\_name'];

$availability = $\_POST['availability'];

$timeIncrement = $\_POST['picture\_time\_increment'];

$state = $\_POST['state'];

if (empty($mID) || empty($microscopeName) || empty($timeIncrement)){

header("Location: ../microscopeconfig.php?error=emptyfield");

exit();

}else{

$sql = "UPDATE microscopes

SET microscope\_name=?,

experiment\_name=?,

course\_name=?,

availability=?,

picture\_time\_increment=?,

state=?

WHERE mid=?";

$stmt = mysqli\_stmt\_init($conn);

if (!mysqli\_stmt\_prepare($stmt, $sql)) {

//checking to see if sql statement is valid

header("Location: ../index.php?error=sqlerror");

exit();

}else{

mysqli\_stmt\_bind\_param($stmt, "ssssssd", $microscopeName, $experimentName, $courseName, $availability, $timeIncrement, $state, $mID);

mysqli\_stmt\_execute($stmt);

header("Location: ../microscopeconfig.php");

exit();

}

}

}

else{

header("Location: ../microscopeconfig.php");

exit();

}

virtualscope.py

import os

import subprocess

import ftplib

import signal

from picamera import PiCamera

from time import sleep

import mysql.connector

from mysql.connector import Error

import datetime

#Define time formatting function

def format\_time(minutes):

secs = minutes \* 60

mins, secs = divmod(secs, 60)

hours, mins = divmod(mins, 60)

return '%02d:%02d:%02d ' % (hours, mins, secs)

#Define the microscope name !!IMPORTANT!!

my\_name = 'microscope1'

#Establish the database connection

try:

connection = mysql.connector.connect(host='50.87.144.72',

database='teampuma\_virtualscope',

user='teampuma\_ryan',

password='ICS499')

if connection.is\_connected():

#Select the time increment from the microscopes table

cursor = connection.cursor()

select\_stmt = "SELECT picture\_time\_increment FROM microscopes WHERE microscope\_name = %(microscope\_name)s"

cursor.execute(select\_stmt, { 'microscope\_name': my\_name })

time\_increment = cursor.fetchone()[0]

#Error connecting -> Use default time\_increment

except Error as e:

print("Error while connecting to MySQL", e)

time\_increment = 3

#Close the database connection

finally:

if (connection.is\_connected()):

cursor.close()

connection.close()

#Connect to FTP server for file uploading

ftp = ftplib.FTP()

host = "ftp.virtualscope.site"

port = 21

ftp.connect(host, port)

ftp.login("teampuma","1#%ekd%YlaG\*")

ftp.cwd("public\_html/microscopes/" + my\_name + "/images/")

#The interval between images in HH:MM:SS format

#The SPACE at the end is important!

image\_interval = format\_time(time\_increment)

#Youtube stream link

stream\_link = "rtmp://a.rtmp.youtube.com/live2/0d18-twub-tqg7-3t7w"

#The concatonated command for streaming

stream\_command = "raspivid -o - -t 0 -w 1280 -h 720 -fps 30 -b 6000000 | ffmpeg -re -f s16le -ac 2 -i /dev/zero -f h264 -i - -vcodec copy -g 50 -strict experimental -f flv " + stream\_link

#Picture folder where photos are saved on the Pi

pic\_folder = "/home/pi/MicroscopeImages/"

while True:

#Run stream for designated time interval

pro = subprocess.Popen(stream\_command, stdout=subprocess.PIPE, shell=True, preexec\_fn=os.setsid)

sleep((time\_increment \* 60)+3)

os.killpg(os.getpgid(pro.pid), signal.SIGTERM)

#Define picture path and capture photo

now = datetime.datetime.now() #Get timestamp

picture\_name = now.strftime("date\_%m-%d-%Y\_time\_%H-%M-%S.jpg") #format image name

picture\_path = pic\_folder + picture\_name

camera = PiCamera()

sleep(0.75)

camera.capture(picture\_path, resize=(1230, 924)) #take pictue and resize

camera.close()

#Send pic via ftp

file = open(picture\_path,"rb") # file to send

ftp.storbinary("STOR " + picture\_name, file) # send the file

file.close()

youtube-poster.js

$(function() {

var videos = $(".video");

videos.on("click", function(){

var elm = $(this),

conts = elm.contents(),

le = conts.length,

ifr = null;

for(var i = 0; i<le; i++){

if(conts[i].nodeType == 8) ifr = conts[i].textContent;

}

elm.addClass("player").html(ifr);

elm.off("click");

});

});