Crawl

# What is crawl

Crawl is a form based website that allows users to sign up to the website using an email and password combination. This email and password combination is then used to access the member’s page where the user can upload files to be stored on the server. The user can also view all of the files which they have uploaded to the server from the members page.

# How it works

Crawl is built on HTML, CSS, and PHP. The HTML is used in conjunction with CSS to create the layout of the website with the main CSS classes coming from the bootstrap framework. PHP was used to communicate between the HTML input and the server which consisted of phpMyAdmin running on top of MySQL, which was all inside an Apache server setup to run on localhost for testing purposes.

## User Creation

User creation for the website was handled mainly by signup.php. In order to add a new user to the database I first had to create the database and the corresponding table to store the user’s information. After creating a new database in phpMyAdmin I then created a table which consisted of the attributes: ID, Email, Password, and filePath. Where ID was a reference key set to auto increment, email and password were used for login purposes, and filePath was used to store the path to which the users uploaded files were. After the database was all set up it was time to move over to the PHP portion.

$insert = "INSERT INTO `drive`.`users` (`ID`, `Email`, `Password`, `filePath`) VALUES (NULL, '$username', '$password', '$filePaths');";

$result = mysql\_query($insert);

The above PHP code represents adding the user to the database. The insert variable is used to store the insert statement which will add the email, password, and filepath to the table when the mysql\_query statement is run.

## User Login

After the user has officially signed up for the website, there email and password can now be used to login to the website. This is done through the use of the login.php page. After a connection is established to the database, the information about the user becomes a simple select statement to check if the email and password match.

$select = "SELECT \* FROM `users` WHERE `Email` = '".$username."' AND `Password` ='".$password."'";

$query = mysql\_query($select) or die("bad query");

$rows = mysql\_num\_rows($query);

if($rows != 0){

while($row = mysql\_fetch\_assoc($query)){

$dbusername = $row['Email'];

$dbpassword = $row['Password'];

}

if($username == $dbusername && $password = $dbpassword){

echo "correct login combo";

$\_SESSION['loggedin'] = true;

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

Header("Location: member.php");

}

}

else{

echo "Invalid username or password";

$\_SESSION['loggedin'] = false;

}

As seen above, the sql select statement is run using the mysql\_query method. From here we can obtain all of the rows that have been returned based on our query. After that it is fairly simple to loop through all of these returned rows checking if what the user entered matches what is stored in the database. After a match is found, the user is considered logged in and the login email, as well as the login session, are stored as new entries in the \_SESSION array.

## Membership

After a user has successfully logged in they are taken to the membership page which is handled by the member.php page. Here it is verified that the user is, in fact, logged in and not just navigating to the web URL directly. After the user is verified, they have the option to start uploading files to their directory on the server. This is done by first retrieving the users file path location which is stored inside the database and retrieved using a simple select statement seen below.

"SELECT `filePath` FROM `users` WHERE `Email` = '$username'"

Once we have the users path, PHP is used to look inside that directory on the server and find all the files that are inside. This is achieved rather easily using the opendir and readdir methods which means the only thing left is to make sure that what is being grabbed is a file and not a directory which is achieved using the code below.

if ($entry != "." && $entry != "..")

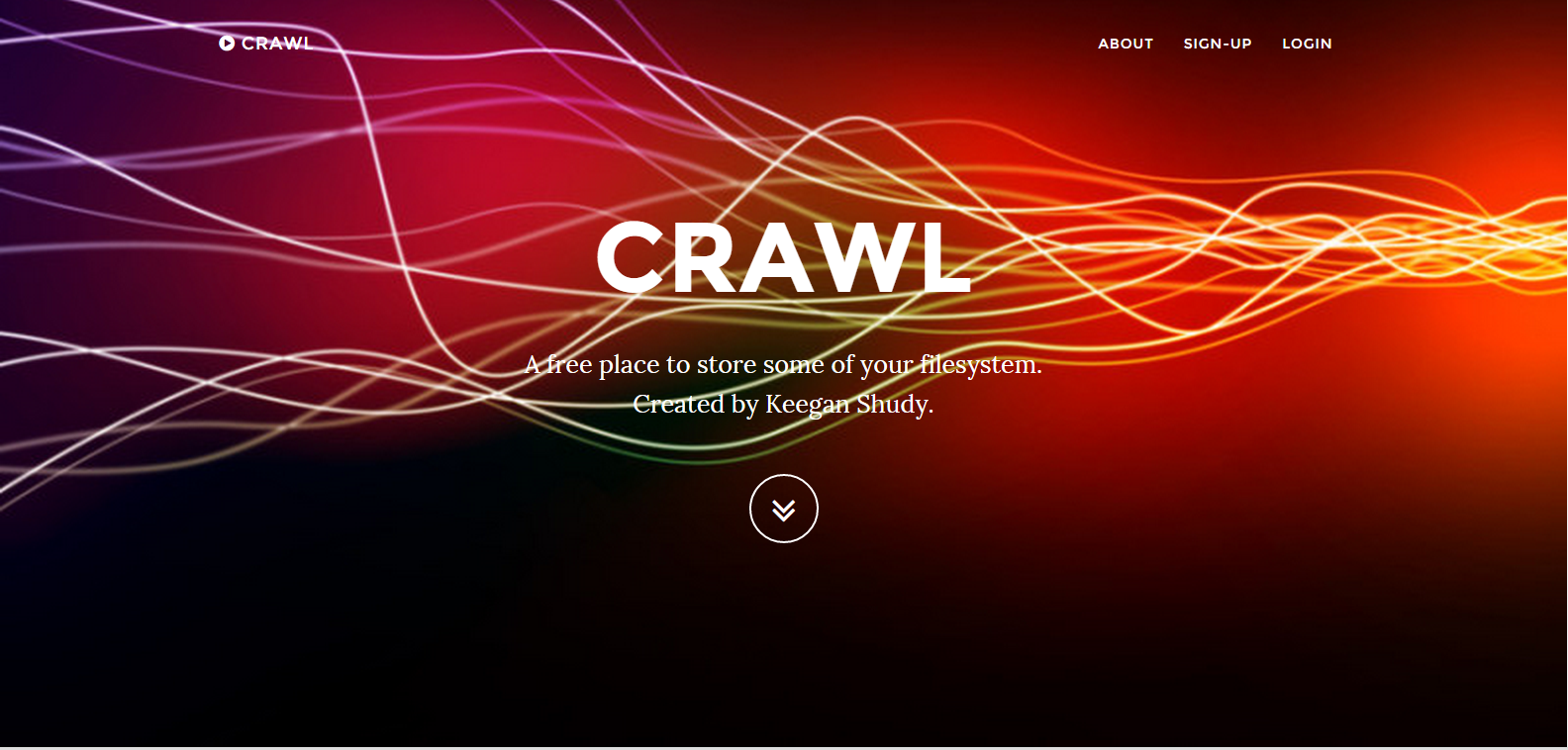
Now the only thing left to handle is the actual uploading of files themselves. In order to do this an HTML form must be created with its method set to post. Inside this form are two input types: one that handles browsing for the file, and the other which submits the file for processing. After the file has been submitted it’s back over to PHP for processing. Using the method move\_uploaded\_file, the file can then be moved into the users uploads directory which was created back when the user was first created. After the file gets successfully moved, the page gets a refresh using the <meta> tag and the file that was just uploaded is displayed in the users uploaded files section.

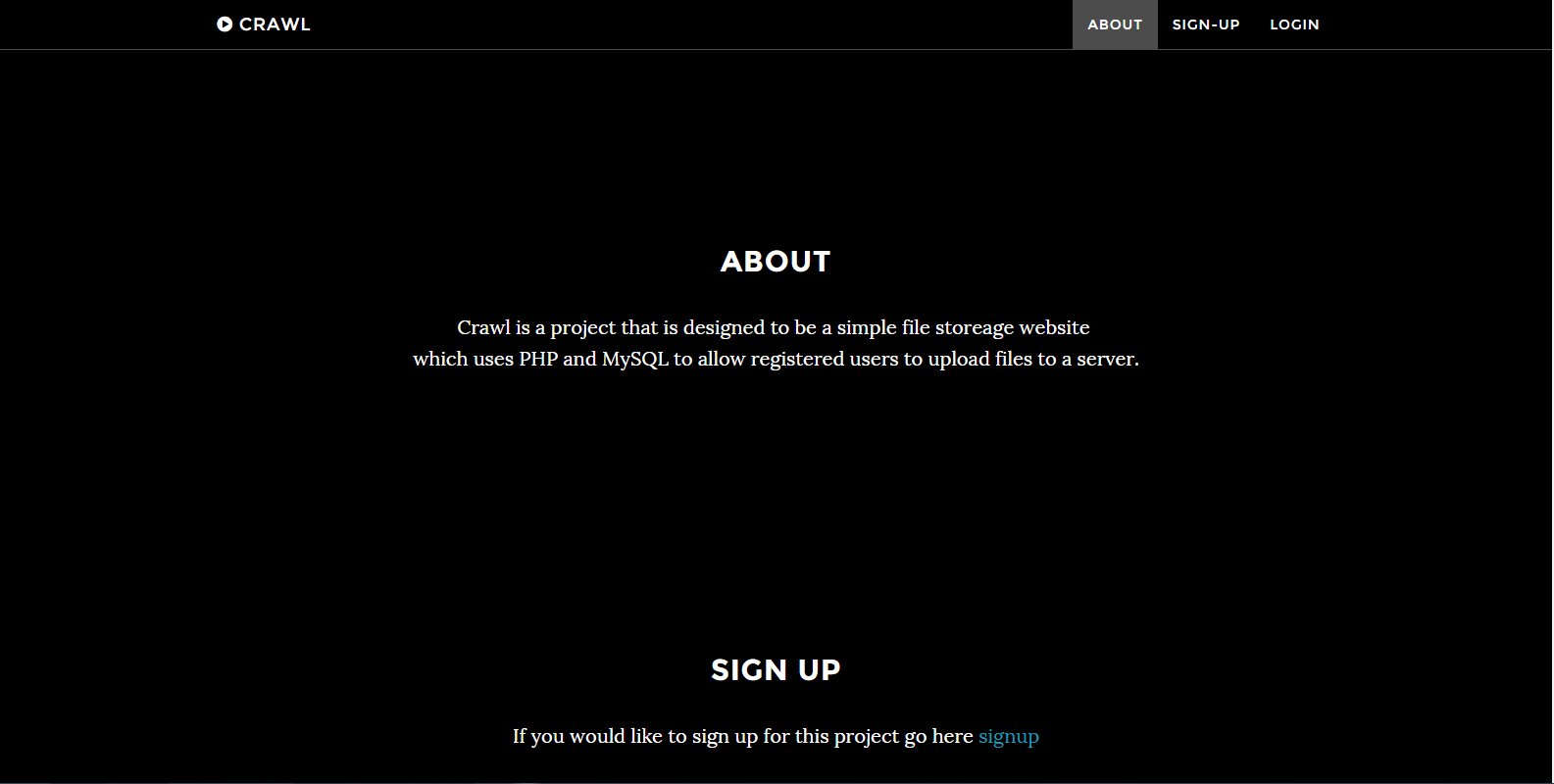
## Logging out

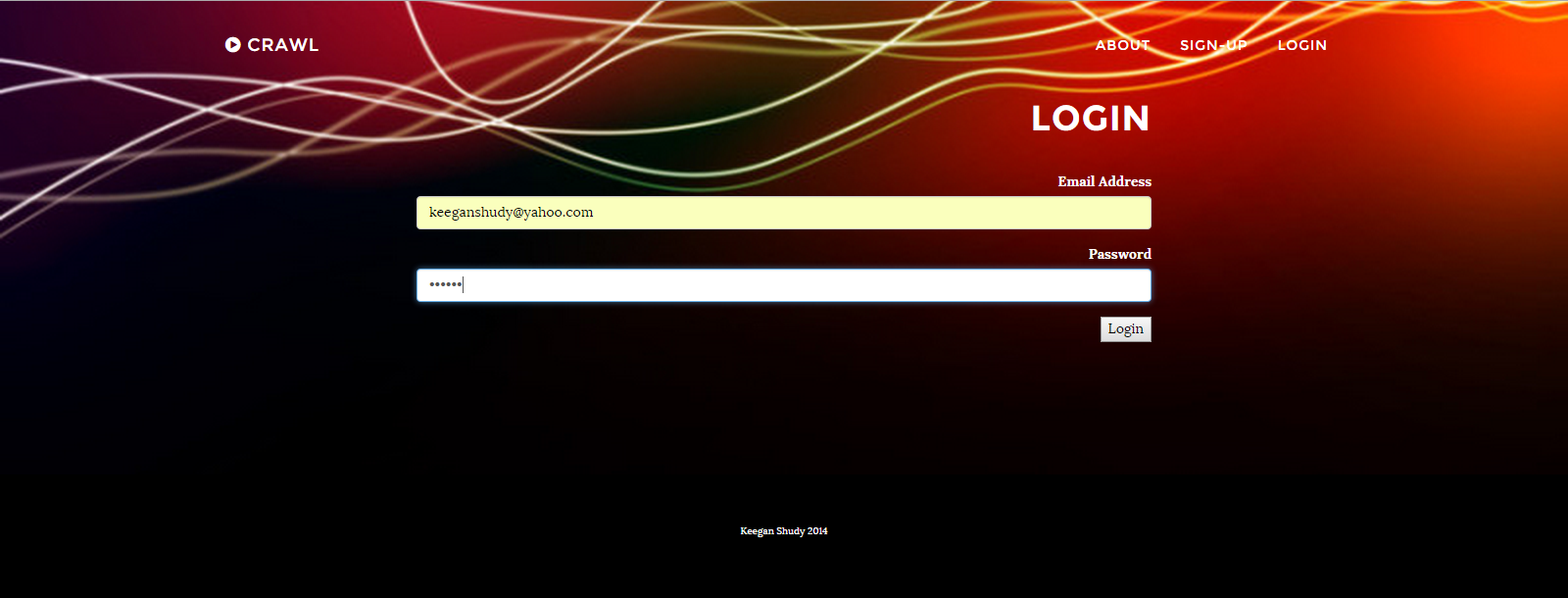
Last but not least is handling the process of logging the user out. This is handled through the signout.php page. Once it is made sure that the user is logged in the session is then destroyed, using session\_destroy() or exit(), and the user is then redirected back to the homepage.

# Cosmetics

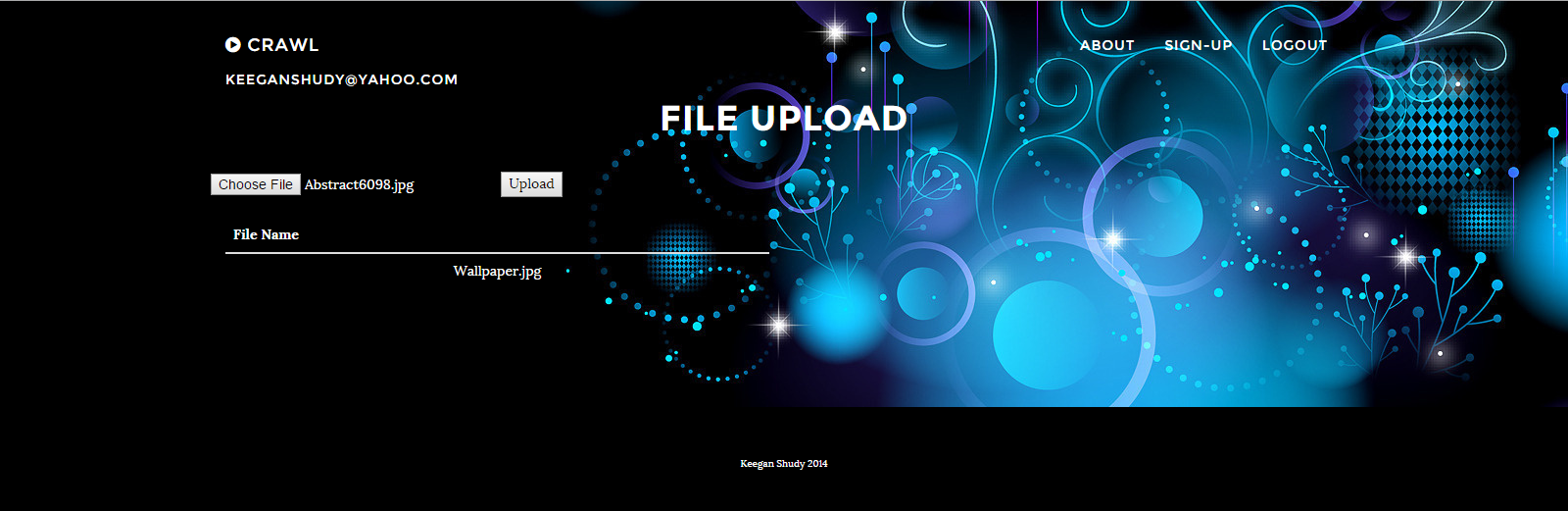
The following are screenshots of the website in action from the front end HTML and CSS designing down to the backend PHP development.

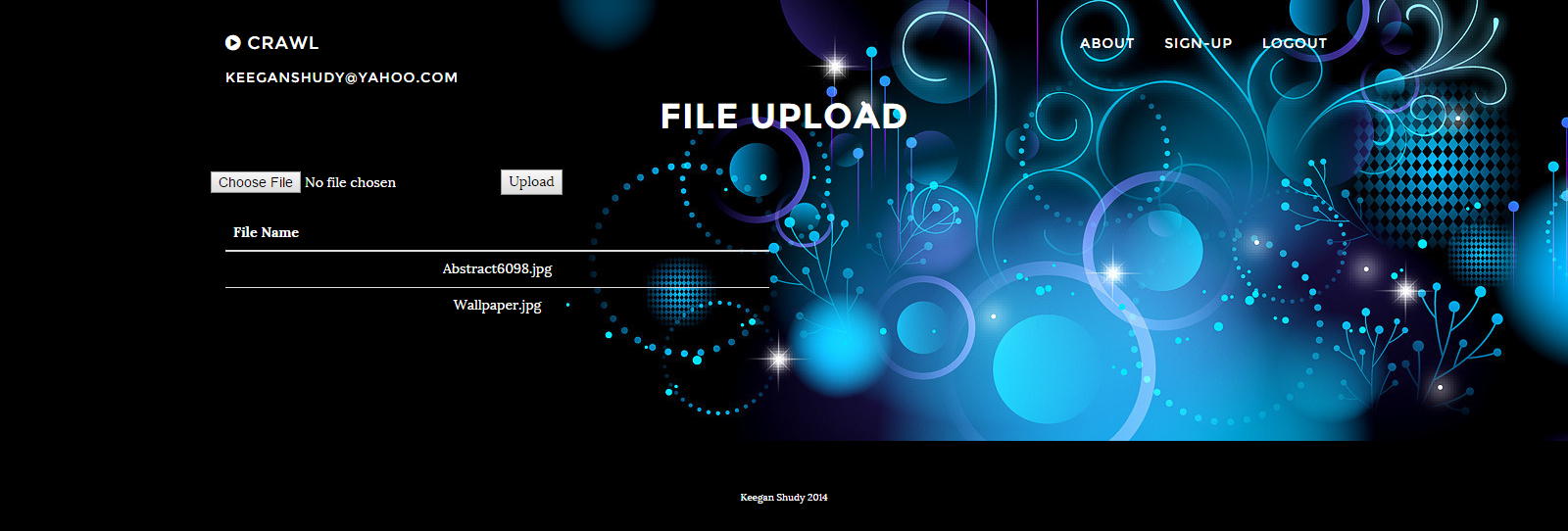












# Conclusion

Overall, this was probably one of my favorite projects that I have done to date. The blending of front end and backend development was something which I have never fully implemented before and it was an amazing feeling to watch my project grow with each line of code that I added. However, although I made a lot of the PHP commands and processes seem rather simple, they did not come without their fair share of frustration. Setting up phpMyAdmin, MySQL, and Apache were a task within themselves. Outside of that, it is very difficult to determine runtime errors in PHP which made debugging when things went wrong rather difficult. In the end, I unfortunately did not finish my overall goal which furnished a way to download the files once they were uploaded as well as remove files that the user did not want anymore. The main reason for this being time. Overall I learned that there is a reason that front-end and back-end development are usually worked on by teams of people separately. Tackling both front-end and back-end took its toll, especially doing them both alone. However, I am very proud of the final outcome of my project despite its shortcomings. I have grown as a developer and am now much more versed in PHP, CSS, and HTML than I was when I first started this project.

# Source Code

## Index.php

<!DOCTYPE html>

<html lang="en">

<?php

session\_start();

// phpinfo();

?>

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

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

<meta name="description" content="">

<meta name="author" content="">

<title>Crawl</title>

<!-- Bootstrap Core CSS -->

<link href="css/bootstrap.min.css" rel="stylesheet">

<!-- Custom CSS -->

<link href="css/grayscale.css" rel="stylesheet">

<!-- Custom Fonts -->

<link href="font-awesome-4.2.0/css/font-awesome.min.css" rel="stylesheet" type="text/css">

<link href="http://fonts.googleapis.com/css?family=Lora:400,700,400italic,700italic" rel="stylesheet" type="text/css">

<link href="http://fonts.googleapis.com/css?family=Montserrat:400,700" rel="stylesheet" type="text/css">

<!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries -->

<!-- WARNING: Respond.js doesn't work if you view the page via file:// -->

<!--[if lt IE 9]>

<script src="https://oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script>

<script src="https://oss.maxcdn.com/libs/respond.js/1.4.2/respond.min.js"></script>

<![endif]-->

</head>

<body id="page-top" data-spy="scroll" data-target=".navbar-fixed-top">

<!-- Navigation -->

<nav class="navbar navbar-custom navbar-fixed-top" role="navigation">

<div class="container">

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-main-collapse">

<i class="fa fa-bars"></i>

</button>

<a class="navbar-brand page-scroll" href="#page-top">

<i class="fa fa-play-circle"></i> <span class="light">Crawl</span>

</a>

<span class="light">

<?php

if(isset($\_SESSION['loggedin']) && $\_SESSION['loggedin'] == true){

echo "<a href=\"member.php\">".$\_SESSION['username']."</a>";

}

?>

</span>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse navbar-right navbar-main-collapse">

<ul class="nav navbar-nav">

<!-- Hidden li included to remove active class from about link when scrolled up past about section -->

<li class="hidden">

<a href="#page-top"></a>

</li>

<li>

<a class="page-scroll" href="#about">About</a>

</li>

<li>

<a class="page-scroll" href="#sign-up">Sign-Up</a>

</li>

<li>

<a href="login.php">Login</a>

</li>

<li>

<?php

if(isset($\_SESSION['loggedin']) && $\_SESSION['loggedin'] == true){

echo "<a href=\"signout.php\">Logout</a>";

}

?>

</li>

</ul>

</div>

<!-- /.navbar-collapse -->

</div>

<!-- /.container -->

</nav>

<!-- Intro Header -->

<header class="intro">

<div class="intro-body">

<div class="container">

<div class="row">

<div class="col-md-8 col-md-offset-2">

<h1 class="brand-heading">Crawl</h1>

<p class="intro-text">A free place to store some of your filesystem.<br>Created by Keegan Shudy.</p>

<a href="#about" class="btn btn-circle page-scroll">

<i class="fa fa-angle-double-down animated"></i>

</a>

</div>

</div>

</div>

</div>

</header>

<!-- About Section -->

<section id="about" class="container content-section text-center">

<div class="row">

<div class="col-lg-8 col-lg-offset-2">

<h2>About</h2>

<p>Crawl is a project that is designed to be a simple file storeage website <br>

which uses PHP and MySQL to allow registered users to upload files to a server.

</p>

</div>

</div>

</section>

<!-- Sign-up Section -->

<section id="sign-up" class="content-section text-center">

<div class="signup-section">

<div class="container">

<div class="col-lg-8 col-lg-offset-2">

<h2>SIGN UP</h2>

<p>If you would like to sign up for this project go here <a href="signup.php">signup</a></p>

</div>

</div>

</div>

</section>

<!-- Map Section -->

<!-- <div id="map"></div>-->

<!-- Footer -->

<footer>

<div class="container text-center">

<p style="font-size:10px">Keegan Shudy 2014</p>

</div>

</footer>

<!-- jQuery -->

<script src="js/jquery.js"></script>

<!-- Bootstrap Core JavaScript -->

<script src="js/bootstrap.min.js"></script>

<!-- Plugin JavaScript -->

<script src="js/jquery.easing.min.js"></script>

<!-- Custom Theme JavaScript -->

<script src="js/grayscale.js"></script>

</body>

</html>

## Signup.php

<!DOCTYPE html>

<html lang="en">

<?php

session\_start();

?>

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

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

<meta name="description" content="">

<meta name="author" content="">

<title>Crawl</title>

<!-- Bootstrap Core CSS -->

<link href="css/bootstrap.min.css" rel="stylesheet">

<!-- Custom CSS -->

<link href="css/grayscale.css" rel="stylesheet">

<!-- Custom Fonts -->

<link href="font-awesome-4.2.0/css/font-awesome.min.css" rel="stylesheet" type="text/css">

<link href="http://fonts.googleapis.com/css?family=Lora:400,700,400italic,700italic" rel="stylesheet" type="text/css">

<link href="http://fonts.googleapis.com/css?family=Montserrat:400,700" rel="stylesheet" type="text/css">

<!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries -->

<!-- WARNING: Respond.js doesn't work if you view the page via file:// -->

<!--[if lt IE 9]>

<script src="https://oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script>

<script src="https://oss.maxcdn.com/libs/respond.js/1.4.2/respond.min.js"></script>

<![endif]-->

</head>

<body id="page-top" data-spy="scroll" data-target=".navbar-fixed-top">

<!-- Navigation -->

<nav class="navbar navbar-custom navbar-fixed-top" role="navigation">

<div class="container">

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-main-collapse">

<i class="fa fa-bars"></i>

</button>

<a class="navbar-brand page-scroll" href="index.php">

<i class="fa fa-play-circle"></i> <span class="light">Crawl</span>

</a>

<span class="light">

<?php

if(isset($\_SESSION['loggedin']) && $\_SESSION['loggedin'] == true){

echo "<a href=\"member.php\">".$\_SESSION['username']."</a>";

}

?>

</span>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse navbar-right navbar-main-collapse">

<ul class="nav navbar-nav">

<!-- Hidden li included to remove active class from about link when scrolled up past about section -->

<li class="hidden">

<a href="#page-top"></a>

</li>

<li>

<a class="page-scroll" href="index.php">About</a>

</li>

<li>

<a class="page-scroll" href="#">Sign-Up</a>

</li>

<li>

<a href="login.php">Login</a>

</li>

<li>

<?php

if(isset($\_SESSION['loggedin']) && $\_SESSION['loggedin'] == true){

echo "<a href=\"signout.php\">Logout</a>";

}

?>

</li>

</ul>

</div>

<!-- /.navbar-collapse -->

</div>

<!-- /.container -->

</nav>

<!-- Intro Header -->

<header class="introsign">

<div class="intro-body">

<div class="container">

<div class="row">

<div class="col-md-8 col-md-offset-2">

<h1 class="brand-heading">Sign Up</h1>

<p class="intro-text">

<!-- form to do the signup -->

<form role="form" method="POST">

<div class="form-group">

<label for="signupEmail">Email Address</label>

<input type="email" class="form-control" id="signupEmail" name="signupEmail" placeholder="Enter Email">

</div>

<div class="form-group">

<label for="signupPassword">Password</label>

<input type="password" class="form-control" id="signupPassword" name="signupPassword" placeholder="Password">

</div>

<input type="submit" name="submit" value="Signup" style="color:black" /input>

</form>

</p>

</div>

</div>

</div>

</div>

</header>

<?php

error\_reporting(0);

session\_start();

$servername = "127.0.0.1";

$username = "root";

try{

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

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

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

$conn = mysql\_connect($servername, $username, ""); //or die("unable to connect to database");

mysql\_select\_db("drive", $conn) or die(mysql\_error());

$filePaths = "uploads/" . $username . "/uploads/"; //give the user a filepath and store it

//check if the filepath exists

if(!(file\_exists($filePath))){

mkdir($filePath, 0755, true);

}

$insert = "INSERT INTO `drive`.`users` (`ID`, `Email`, `Password`, `filePath`) VALUES (NULL, '$username', '$password', '$filePaths');";

$result = mysql\_query($insert);

echo "User created successfully";

}

}catch(PDOException $e)

{

echo $e->getMessage();

}

?>

<!-- Map Section -->

<!-- <div id="map"></div>-->

<!-- Footer -->

<footer>

<div class="container text-center">

<p style="font-size:10px">Keegan Shudy 2014</p>

</div>

</footer>

<!-- jQuery -->

<script src="js/jquery.js"></script>

<!-- Bootstrap Core JavaScript -->

<script src="js/bootstrap.min.js"></script>

<!-- Plugin JavaScript -->

<script src="js/jquery.easing.min.js"></script>

<!-- Custom Theme JavaScript -->

<script src="js/grayscale.js"></script>

</body>

</html>

## Login.php

<!DOCTYPE html>

<html lang="en">

<?php

error\_reporting(0);

session\_start();

$servername = "127.0.0.1";

$username = "root";

try{

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

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

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

$conn = mysql\_connect($servername, $username, ""); //or die("unable to connect to database");

mysql\_select\_db("drive", $conn) or die(mysql\_error());

$select = "SELECT \* FROM `users` WHERE `Email` = '".$username."' AND `Password` ='".$password."'";

$query = mysql\_query($select) or die("bad query");

$rows = mysql\_num\_rows($query);

if($rows != 0){

while($row = mysql\_fetch\_assoc($query)){

$dbusername = $row['Email'];

$dbpassword = $row['Password'];

}

if($username == $dbusername && $password = $dbpassword){

echo "correct login combo";

$\_SESSION['loggedin'] = true;

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

Header("Location: member.php");

}

}

else{

echo "Invalid username or password";

$\_SESSION['loggedin'] = false;

}

}

}catch(PDOException $e)

{

echo $e->getMessage();

}

?>

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

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

<meta name="description" content="">

<meta name="author" content="">

<title>Crawl</title>

<!-- Bootstrap Core CSS -->

<link href="css/bootstrap.min.css" rel="stylesheet">

<!-- Custom CSS -->

<link href="css/grayscale.css" rel="stylesheet">

<!-- Custom Fonts -->

<link href="font-awesome-4.2.0/css/font-awesome.min.css" rel="stylesheet" type="text/css">

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<script src="https://oss.maxcdn.com/libs/respond.js/1.4.2/respond.min.js"></script>

<![endif]-->

</head>

<body id="page-top" data-spy="scroll" data-target=".navbar-fixed-top">

<!-- Navigation -->

<nav class="navbar navbar-custom navbar-fixed-top" role="navigation">

<div class="container">

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-main-collapse">

<i class="fa fa-bars"></i>

</button>

<a class="navbar-brand page-scroll" href="index.php">

<i class="fa fa-play-circle"></i> <span class="light">Crawl</span>

</a>

<span class="light">

<?php

if(isset($\_SESSION['loggedin']) && $\_SESSION['loggedin'] == true){

echo "<a href=\"member.php\">".$\_SESSION['username']."</a>";

}

?>

</span>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse navbar-right navbar-main-collapse">

<ul class="nav navbar-nav">

<!-- Hidden li included to remove active class from about link when scrolled up past about section -->

<li class="hidden">

<a href="#page-top"></a>

</li>

<li>

<a class="page-scroll" href="index.php">About</a>

</li>

<li>

<a class="page-scroll" href="signup.php">Sign-Up</a>

</li>

<li>

<a href="login.php">Login</a>

</li>

<li>

<?php

if(isset($\_SESSION['loggedin']) && $\_SESSION['loggedin'] == true){

echo "<a href=\"signout.php\">Logout</a>";

}

?>

</li>

</ul>

</div>

<!-- /.navbar-collapse -->

</div>

<!-- /.container -->

</nav>

<!-- Intro Header -->

<header class="introsign">

<div class="intro-body">

<div class="container">

<div class="row">

<div class="col-md-8 col-md-offset-2">

<h1 class="brand-heading">Login</h1>

<p class="intro-text">

<form role="form" method="POST">

<div class="form-group">

<label for="loginEmail">Email Address</label>

<input type="email" class="form-control" id="loginEmail" name="loginEmail" placeholder="Enter Email">

</div>

<div class="form-group">

<label for="loginPassword">Password</label>

<input type="password" class="form-control" id="loginPassword" name="loginPassword" placeholder="Password">

</div>

<input type="submit" name="submit" value="Login" style="color:black" /input>

</form>

</p>

</div>

</div>

</div>

</div>

</header>

<!-- Map Section -->

<!-- <div id="map"></div>-->

<!-- Footer -->

<footer>

<div class="container text-center">

<p style="font-size:10px">Keegan Shudy 2014</p>

</div>

</footer>

<!-- jQuery -->

<script src="js/jquery.js"></script>

<!-- Bootstrap Core JavaScript -->

<script src="js/bootstrap.min.js"></script>

<!-- Plugin JavaScript -->

<script src="js/jquery.easing.min.js"></script>

<!-- Custom Theme JavaScript -->

<script src="js/grayscale.js"></script>

</body>

</html>

## Signout.php

<!DOCTYPE html>

<html lang="en">

<?php

error\_reporting(0);

session\_start();

if (!(isset($\_SESSION['loggedin']) && $\_SESSION['loggedin'] == true)){

header("Location: login.php");

exit();

}

?>

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

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

<meta name="description" content="">

<meta name="author" content="">

<title>Crawl</title>

<!-- Bootstrap Core CSS -->

<link href="css/bootstrap.min.css" rel="stylesheet">

<!-- Custom CSS -->

<link href="css/grayscale.css" rel="stylesheet">

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<script src="https://oss.maxcdn.com/libs/respond.js/1.4.2/respond.min.js"></script>

<![endif]-->

</head>

<body id="page-top" data-spy="scroll" data-target=".navbar-fixed-top">

<!-- Navigation -->

<nav class="navbar navbar-custom navbar-fixed-top" role="navigation">

<div class="container">

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-main-collapse">

<i class="fa fa-bars"></i>

</button>

<a class="navbar-brand page-scroll" href="index.php">

<i class="fa fa-play-circle"></i> <span class="light">Drive</span>

</a>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse navbar-right navbar-main-collapse">

<ul class="nav navbar-nav">

<!-- Hidden li included to remove active class from about link when scrolled up past about section -->

<li class="hidden">

<a href="#page-top"></a>

</li>

<li>

<a class="page-scroll" href="index.php">About</a>

</li>

<li>

<a class="page-scroll" href="signup.php">Sign-Up</a>

</li>

<li>

<a href="login.php">Login</a>

</li>

</ul>

</div>

<!-- /.navbar-collapse -->

</div>

<!-- /.container -->

</nav>

<!-- Intro Header -->

<!-- <header class="intro"> -->

<div class="intro-body">

<div class="container">

<div class="row">

<div class="col-md-8 col-md-offset-2">

<h1 class="brand-heading">

<?php

echo $\_SESSION['username'];

?>

</h1>

<?php

if(isset($\_SESSION['loggedin']) && $\_SESSION['loggedin'] == true){

$\_SESSION['loggedin'] = false;

echo "You have been logged out, returning to homepage";

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

session\_destroy();

header("Location: index.php");

}

?>

<p class="intro-text">

</p>

</div>

</div>

</div>

</div>

<!-- </header> -->

<!-- Map Section -->

<!-- <div id="map"></div>-->

<!-- Footer -->

<footer>

<div class="container text-center">

<p style="font-size:10px">Copyright &copy; Keegan Shudy 2014</p>

</div>

</footer>

<!-- jQuery -->

<script src="js/jquery.js"></script>

<!-- Bootstrap Core JavaScript -->

<script src="js/bootstrap.min.js"></script>

<!-- Plugin JavaScript -->

<script src="js/jquery.easing.min.js"></script>

<!-- Custom Theme JavaScript -->

<script src="js/grayscale.js"></script>

</body>

</html>

## Member.php