PHP and MySQL
Session 4: Advanced PHP

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A brief review

- PHP
  - Variables
  - Operations
  - Functions
- HTML Forms
- MySQL
  - Relational databases
- Adding data
- Manipulating data
- Relating data
- Include Files
- Editing data
- Deleting data

PHP and Headers

header.inc.php

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/ xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" /><link href="assets/style.css" type="text/css" rel="stylesheet"/>

   <title><?php echo $title?></title>

</head>

PHP and Headers, cont.

```php
<?php
if ($product_insert){
$insert_product_class="navcurr";
    }
else {
$insert_product_class="nav";
}
if ($product_show){
    $show_product_class="navcurr";
}
else {
    $show_product_class="nav";
}
```

PHP and Headers, cont.

```php
if ($company_insert){
    $insert_company_class="navcurr";
}
else {
    $insert_company_class="nav";
}
if ($company_show){
    $show_company_class="navcurr";
}
else {
    $show_company_class="nav";
}
?>
```

PHP and Headers, cont.

```php
if ($search){
    $search_class="navcurr";
}
else {
    $search_class="nav";
}
?>
```

PHP and Headers, cont.

```
<body>
    <div class="wrapper">
    <div class="headline"></div>
    <div class="header"><h1><?php echo $title?></h1></div>      <div
    class="navbar">
    <a href="product_show.php" class='<?php echo $show_product_class?
    >'>Show Product</a>
    <a href="product_insert.php" class='<?php echo $insert_product_class?
    >'>Insert Product</a>
    <a href="company_show.php" class='<?php echo $show_company_class?
    >'>Show Company</a>
    <a href="company_insert.html" class='<?php echo
    $insert_company_class?>'>Insert Company</a>
    <a href="search.php" class='<?php echo $search_class?>'>Search</a>
</div>
 <div class="content">
```

PHP and Headers, cont.

product_show.php

```php
<?php
  include 'include/db.inc.php';
  $title="Class 4 Show Product";
  $product_show=true;
  $product_insert=false;
  $company_show=false;
  include 'include/header.inc.php';
```

PHP and Footers

footer.inc.php

```
 </div>
<div class="footer">
<img src="assets/cc_by.png" alt="Creative Commons
    Licensed By" title="Creative Commons Licensed By"
    height="45"/> Izzy Johnston, in conjunction with Girl
    Develop It!
</div>
</div>
</body>
</html>
```

PHP and Footers, cont.

product_show.php

  include 'include/footer.inc.php';

?>

Securing our data—Protection matters

- Content management vs. User interaction
- Control who can see, edit, and insert information

- Create new table in our database via PHPmyAdmin
  - 3 fields
  - user_id, username, password

Securing our data—HTML Forms (again)

create_account.php

```
<form action="create_account_result.php"
    method="post">
    Username:<input type="text" name="username"
    id="username"/><br/>
    Password:<input type="password"
    name="password" id="password"/><br/>
     <input type="submit" value="Create Account"/>

</form>
```

Securing our data—password scrambling

create_account_result.php

```php
$password = mysqli_real_escape_string($link, $_POST['password']);

$username = mysqli_real_escape_string($link, $_POST['username']);

$password = md5($password , FALSE);

$sql = "INSERT INTO admin SET
password='$password',
username='$username'";

if (!mysqli_query($link, $sql)){
$error = 'Error adding submitted data: ' . mysqli_error($link);
echo $error;
exit();
}
echo "Thank you, your account has been created.";
```

Securing our data—logging in

login_form.php

```
<form action="login.php" method="post">
    Username:<input type="text"
    name="username" id="username"/><br/>
    Password:<input type="password"
    name="password" id="password"/><br/>
     <input type="submit" value="Login"/>
</form>
```

Securing our data—checking passwords

```php
login.php
<?php
    include 'include/db.inc.php';
    $username = mysqli_real_escape_string($link, $_POST['username']);
    $password = mysqli_real_escape_string($link, $_POST['password'] );

    $password = md5($password, FALSE);

    $sql = "SELECT user_id FROM admin WHERE
    username='$username' AND password='$password'";

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

    $recording = mysqli_fetch_array($result);
    $user_id=htmlspecialchars($recording['user_id'], ENT_QUOTES, 'UTF-8');
```

Securing our data—checking passwords, cont.

```php
if ($user_id > 0){
    session_start();
    $_SESSION['loggedIn'] = TRUE;
    $_SESSION['username'] = $username;
    $_SESSION['password'] = $password;
    header('Location:product_show.php');
}
else{
    session_start();
    unset($_SESSION['loggedIn']);
    unset($_SESSION['username']);
    unset($_SESSION['password']);
    echo 'The specified username address or password was incorrect.';
    echo "<br />";
    echo "<a href='login_form.php'>Back</a>";
    exit();        }
?>
```

PHP in the Real World, part 2

- Drupal
  - Open source content management system
  - The Onion, MTV, Nascar, etc.
- Wordpress
- Getting started→Migrating
- Data modeling

Securing our data—protecting every page

```php
<?php
  session_start();
  if (!$_SESSION['loggedIn']){
   exit();
  }
?>
```

Brainstorming Time!

- Do you have specific questions?

- Any real world issues?

- What do you want to do with PHP?

Great Resources

- W3Schools Tutoriasl
  - http://W3Schools.com
- PHP Language Reference
  - http://www.php.net/manual/en/langref.php
- PHP: The Good Parts
  - O'Reilly Media
  - http://oreilly.com/catalog/9780596804374/

Thank you!