

PHP and MVC Architecture

Build a better website

Class 4: Security and Permissions
Logging in, logging out and
user-specific permissions



Passwords and Model

Create Blogger -- models/blogger.php

md5 is a function that scrambles data

```
public static function create ($fields) {  
    $date = date ("Y-m-d H:i:s");  
    $fields = Model::cleanData($fields);  
  
    $password = md5($fields['password'], false);  
  
    $sql = 'INSERT INTO bloggers (username, email, password,  
        date_created)VALUES ("' . $fields['username'] . '", "' .  
        $fields['email'] . '", "' . $password . '", "' . $date . '")';  
    $results = Model::insert($sql);  
    return $results;  
}
```

You will have to add a similar line in the update
function in the model



Passwords and Controllers

Update blogger -- controllers/blogger.php

```
if (isset($_POST['update_blogger'])) {  
    if($_POST['password']==='') {  
        Blogger::edit($_POST, $_POST['id']);  
    }  
    else if($_POST['password'] != '' && $_POST['old_password'] != '') {  
        $blogger = Blogger::getOne($_POST['id']);  
        $old_password = md5($_POST['old_password'], false);  
        if($old_password == $blogger['password']) {  
            Blogger::edit($_POST, $_POST['id']);  
        }  
        else {  
            $warning = 'Old password does not match password in the  
database';  
        }  
    }  
    else {  
        $warning = 'You must provide an old password to change passwords.'  
    }  
}
```



Logging in and Starting Sessions

Config and models/blogger.php

```
session_start();
```

```
public static function login ($fields) {  
    $fields = Model::cleanData($fields);  
    $password = md5($fields['password'], false);  
    $sql = 'SELECT * FROM bloggers WHERE username = "'.  
$fields['username'] . '" and password = "' . $password . '" LIMIT 1';  
    $results = Model::select($sql);  
    if($results) {  
        return $results[0];  
    }  
    else {  
        return false;  
    }  
}
```



Logging in and Starting Sessions

controllers/blogger.php

```
$_SESSION

if(isset($_POST['login_blogger'])) {
    if($_POST['username'] != '' && $_POST['password'] != '') {
        $blogger = Blogger::login($_POST);
        if($blogger) {
            $_SESSION['user_id'] = $blogger['id'];
        }
        else{
            $warning = 'No blogger with that username and database exists in
our database';
        }
    }
    else{
        $warning = 'Please enter both username and password';
    }
}
```



Logging in and Starting Sessions

views/blogger/list.php

```
<div id= "login-blogger">
  <form action="<?php echo htmlentities($_SERVER['PHP_SELF']); ?>"
method="post">
    <label>Username</label><input type="text" name ="username"/>
    <label>Password</label><input type="password" name ="password"/>
    <input type = "hidden" value ="true" name="login_blogger"/>
    <button type = "submit" value="Login" class="edit"><img
class="icon" src='/public/images/add.png'/><div class="button-text">
Login</div></button>
  </form>
</div>
```



Logging out and ending sessions

controllers/blogger.php & views/blogger/list.php

```
if(isset($_POST['logout_blogger'])) {  
    unset($_SESSION['user_id']);  
}
```

```
<div id= "logout-blogger">  
    <p class="warning">Are you sure you want to logout?</p>  
    <form action="<?php echo htmlentities($_SERVER['PHP_SELF']); ?>"  
method="post">  
        <input type = "hidden" value ="true" name="logout_blogger"/>  
        <button type = "submit" value="Logout" class="delete"><img  
class="icon" src='/public/images/delete.png'/><div class="button-text">  
Logout</div></button>  
    </form>  
</div>
```



Using Sessions

controllers/blogger.php

```
if (isset($_POST['update_blogger'])) {  
    if(isset($_SESSION['user_id']) && $_SESSION['user_id']==$_POST['id']) {  
        ///all the code we wrote before  
    }  
    else{  
        $warning = 'Sorry, you do not have permissions to edit that user';  
    }  
}
```

```
if (isset($_POST['delete_blogger'])) {  
    if(isset($_SESSION['user_id']) && $_SESSION['user_id']==$_POST['id']) {  
        Blogger::destroy($_POST['id']);  
    }  
    else{  
        $warning = 'Sorry, you do not have permissions to delete that  
user';  
    }  
}
```



Using Sessions

controllers/post.php

```
if (isset($_POST['create_post'])) {  
    if(isset($_SESSION['user_id'])) {  
        $_POST['user_id'] = $_SESSION['user_id'];  
        Post::create($_POST);  
    }  
    else{  
        $warning = 'Sorry, you must be logged in to submit a post';  
    }  
}
```



Using Sessions

controllers/post.php

```
if (isset($_POST['update_post'])) {  
    if(isset($_SESSION['user_id']) && $_SESSION['user_id']==  
$_POST['user_id']) {  
        Post::edit($_POST, $_POST['id']);  
    }  
    else{  
        $warning = 'Sorry, you do not have permissions to edit that post';  
    }  
}
```



Using Sessions

controllers/post.php

```
if (isset($_POST['delete_post'])) {  
    if(isset($_SESSION['user_id']) && $_SESSION['user_id']==  
$_POST['user_id']) {  
        Post::destroy($_POST['id']);  
    }  
    else{  
        $warning = 'Sorry, you do not have permissions to delete that  
post';  
    }  
}
```



Using Sessions

views/posts/list.php

```
<?php if(!isset($_SESSION['user_id'])): ?>
    <div id = "login" class="edit">
        <img class="icon" src='/public/images/pencil.png' />
        <div class="button-text"> Login</div>
    </div>
<?php else: ?>
    <div id = "logout" class="delete">
        <img class="icon" src='/public/images/delete.png' />
        <div class="button-text"> Logout</div>
    </div>
<?php endif;?>
```



Frameworks and CMS

CMS:

Wordpress, Drupal, Omeka,
Collective Access

Frameworks:

Kohana, CodeIgniter, Symfony,
CakePHP, Zend



Books and Resources

php.net

Learning PHP, MySQL and Javascript
(Robin Nixon)

PHP for the Web: QuickStart Guide
(Larry Ullman)

[http://www.w3schools.com/php/
default.asp](http://www.w3schools.com/php/default.asp)

[http://net.tutsplus.com/tutorials/php/
20-ways-to-save-kittens-and-learn-
php/](http://net.tutsplus.com/tutorials/php/20-ways-to-save-kittens-and-learn-php/)





Questions?

