



Lecture 5 OverView

- Day4/Lab4 Questions
- Review Student Videos
- Todays Topic (**Salting, Hashing, and Sessions**)
- Class Interactivity (Flow Tweeter, or a blog)
- Lecture



Class Interactivity

*How would you create a timeline (flow diagram) for **Tweeter?**

*Groups of 3/4 Draw on the board

Continue on the next slide



SALTING, HASHING, & SESSIONS

PHP

```
$str = 'apple';
$salt = 'mysectretpassword';

//without salting
if (md5($str) === '1f3870be274f6c49b3e31a0c6728957f' ) {
    echo "valid user";
}

//with salting
if (md5($salt.$str) === 'asda3870be2345kf431a0c6728957f' ) {
    echo "valid user";
}
```

New sessions

```
session_start();
echo 'Welcome to page #1';
$_SESSION['favcolor'] = 'green';
$_SESSION['animal']    = 'cat';
$_SESSION['time']      = time();
```



SALTING, HASHING, & SESSIONS

COLDFUSION

```
<cfset salt="thismysecretkey">
<cfset pass="passfrommyform">

<cfset hashedonly=hash("#pass#", "md5")>

<cfset hashedandsalted=hash("#salt#" & "#pass#", "md5")>

<cfif "#hashedandsalted#" eq "5F1DE5D2DB60FB1F0134B099F496F4F2">
valid login
</cfif>

<cflock timeout=20 scope="Session" type="Exclusive">
    <cfset Session.isloggedin = 1>
</cflock>

<cflock timeout=20 scope="Session" type="Exclusive">
    <cfset StructDelete(Session, "isloggedin")>
</cflock>
```




SALTING, HASHING, & SESSIONS

Php and CF hashing and salting

PHP

We will now create

- loginform.html (view)**
- landing.php (view)**
- content.php (view)**
- CheckSession.php(view)**
- CheckLogin.php (model)**
- index.php (login controller)**



LOGIN FORM (PHP/COLDFUSION)

/views/incs/login.html or login.php

```
<html>
<head>
<link media="all" href="css/sslcss.css" type="text/css" rel="stylesheet" />
</head>
<body>
<form name="myform" id="myform" method="post"
  action="?action=checklogin">
  <span class="message">User Name:</span>
  <input id="uname" name="uname" type="text" class="textbox"/>
  <span class="message">Password</span>
  <input id="pass" name="pass" type="password" class="textbox" />
  <input type="submit" value="submit" class="button"/>
  <?php echo $data; ?> // CF <cfoutput>#data#</cfoutput>
</form>
</body></html>
```



LANDING & PROTECTED PAGE(s) (PHP)

/views/pages/landing.php

```
1  <?php
2  $r = $_SERVER['REQUEST_URI'];
3  $mvc = preg_match('/action/', $r);
4
5      if($mvc == 1){
6          include 'views/incs/checkSession.php';
7      }else{
8          include '../views/incs/checkSession.php';
9      }
10 ?>
11 <p>THIS IS THE CONTENT FOR THE LANDING PAGE</p>
12 <a href='?action=logout'>LOGOUT</a>
13
```




LANDING & PROTECTED PAGE(s) (PHP)

/models/views.php

```
1  <?php
2  class Views{
3
4      public function getView($pagename='', $data =''){
5
6
7          include $pagename.'.php';
8
9
10     }
11
12 }
13 ?>
```



LANDING & PROTECTED PAGE(s) (PHP)

/views/pages/content.php

```
1 <html>
2 <head>
3 <link media="all" href="css/sslcss.css" type="text/css" rel="stylesheet" />
4 </head>
5 <body>
6 <div id="initialpage">
7 <?php
8 if(gettype($data)== "Array"){
9     foreach($data as $x){
10
11         echo $x;
12     }
13 }else{
14
15     echo $data;
16 }
17 ?>
18 </div>
19 </body>
20 </html>
```



LANDING & PROTECTED PAGE(s) (PHP)

/views/incs/checkSession.php

```
1  <?php
2  if(isset($_SESSION["loggedin"])){
3
4      //echo $_SESSION["loggedin"];
5
6  }else{
7
8      header("location: /SSL/day5/index.php");
9  }
10 ?>
```




LANDING & PROTECTED PAGE(s) (PHP)

/models/checklogin.php

```
1  <?php
2  class ckUser{
3
4      public function checkUser($data){
5          session_start();
6          $db = new PDO("mysql:host=127.0.0.1","root","root");
7
8          $q = "select user_login_name, user_login_password
9              from bdfdatabase.users
10             where user_login_name = :un and user_login_password = :pass";
11
12         $st = $db->prepare($q);
13
14         $st->execute(array(":un"=>$data["un"], ":pass"=>$data["pass"]));
15
16         $st->fetchAll();
17         $isgood = $st->rowCount();
18
19         if($isgood > 0){
20             $_SESSION["loggedin"] = 1;
21             return 1;
22         }else{
23             $_SESSION["loggedin"] = 0;
24
25             return 0;
26         }
27
28     }
29 }
30 }
31 ?>
```




LANDING & PROTECTED PAGE(s) (PHP)

/index.php (controller) part I

```
1  <?php
2  include 'models/views.php';
3  include 'models/checklogin.php';
4
5  $views = new views();
6  $logins = new ckUser();
7
8  if(isset($_GET["action"])){
9      $action = $_GET["action"];
10 }else{
11     $action = "";
12 }
13
14
15 if($action==""){
16
17     $data = "<a href='?action=userlogin'>LOGIN</a>";
18     $views->getView("views/pages/content",$data);
19
20 }else if($action=="userlogin"){
21
22     $data = $views->getView("views/incs/login");
23     .....
```



LANDING & PROTECTED PAGE(s) (PHP)

/index.php (controller) part I

```
23
24 }else if($action=="checklogin"){
25
26     $data = array("un"=>$_POST["uname"],
27                  "pass"=>$_POST["pass"]);
28
29     $test = $logins->checkUser($data);
30     $msg="Invalid Login";
31
32     if($test == 1){
33         $views->getView("views/pages/landing");
34     }else{
35         $views->getView("views/incs/login",$msg);
36     }
37
38 }else if($action=="logout"){
39     session_start();
40     $_SESSION["loggedin"] = 0;
41     $data = "<a href='?action=userlogin'>LOGIN</a>";
42     $views->getView("views/pages/content",$data);
43     session_destroy();
44 }
45 ?>
```




LAB #5: Today you will convert PHP User Login to CF Login

- You will need to match your designs from your previous labs, create css and valid HTML techniques in mind.
- Please follow the PHP code when you are converting your code to Coldfusion it will help you easily finishing this lab.
- You are welcome to use JQuery, JavaScript techniques you have learned previously.
- Lab is due at the begingin of next class and must be checked-in to your GIT REPO.
- You will also need to create demo video for this lab to be viewed at the beginning of this class.

```
<cflock timeout=20 scope="Session" type="Exclusive">  
    <cfset Session.isloggedin = "1">  
</cflock>
```