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https://pow.goder.com

Department of Computer Science
School of Electrical Engineering, Electronics, and Computer Science
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Example

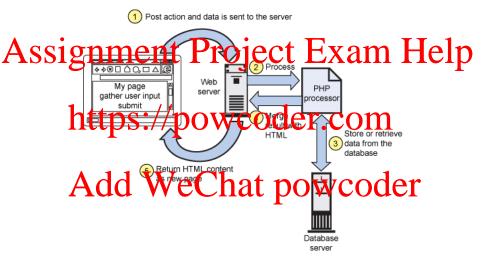
4 Authentication

Overview

Example

Web applications Overview

Web applications using PHP



IBM: Build Ajax-based Web sites with PHP, 2 Sep 2008. https://www.ibm.com/developerworks/library/wa-aj-php/ [accessed 6 Mar 2013]

HTML forms

When considering Perl CGI programming we have used HTML forms that generated a client request that was handled by a Perl CGI program:

```
Aform againment Project Exam Help

method="post">
...

</form>
Now we https://spow.coder.com
```

```
<form action="http://cgi.csc.liv.ac.uk/~ullrich/demo.php"
method="post">
```

... Add WeChat powcoder

- The PHP script file must be stored in a directory accessible by the web server, for example \$HOME/public_html, and be readable by the web server
- The PHP script file name must have the extension .php, e.g. demo.php

Information available to PHP scripts

Information about the PHP environment

A Information about the web server and client request Resignment Project Exam Help

- Form data
- · Cookid Strip sate // powcoder.com
 - string date(format)
 returns the current date/time presented according to format
 for example date(NV:iCLuj.NVIII DOWCOCCI
 results in 12:20 Thursday, 8 March 2012
 (See http://www.php.net/manual/en/function.date.php)
 - int time()
 returns the current time measured in the number of seconds
 since January 1 1970 00:00:00 GMT

PHP environment

 phpinfo() displays information about the PHP installation and EGPCS data (Environment, GET, POST, Cookie, and Server data)

A for the current client requirement of the current client requirement client requirement of the current client requirement c

```
<html><head></head><body>
<?php
phpin ftps://powcesterf.com
phpinfo(INTO_VARIABLES);

// Show only info on EGPCS data
?>
</body></html>
```

http://cgAsc 16 .acM/ marich 12 184 9 mm 14/ 16 mm 16 16 17

INFO_GENERAL

The configuration, php.ini location, build date,

Local and master values for PHP directives

web server

INFO_CONFIGURATION

INFO_MODULES

INFO_VARIABLES

Loaded modules

All EGPCS data

Manipulating the PHP configuration

The following functions can be used to access and change the configuation of PHP from within a PHP script:

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- returns all the registered configuration options
- string in pet of the configuration option on success
- string ini_set(option, value)
 - sets the value of the vive configration opin to a revealer
 - the configuration option will keep this new value during the script's execution and will be restored afterwards
- void ini_restore(option)
 - restores a given configuration option to its original value

Server variables

The \$_SERVER array stores information about the web server and the client request

```
Assignment Project Exam Help
<html><nead></head><body>
<?php
echo 'Server software: ',$_SERVER['SERVER_SOFTWARE'],'<br />';
echo 'R noteradoress: ) (3.51 RYDR ( ANDRE ADDA) ) (br />';
echo 'Cirent browser: ), $_SERVER['HITY_USER_AGENT], '<br/>';
echo 'Request method: ',$_SERVER['REQUEST_METHOD'];
?></body></html>
http://cgi/csclid.ad/k/mlfrich/COMPt84/examples/server_the_T
Server_software: Apache/2.2.22 (Fedora)
Remote address: 10.128.0.215
Client browser: Mozilla/5.0 ... Chrome/41.0.2272.53 ...
Request method:
```

See http://php.net/manual/en/reserved.variables.server.php for a list of keys

Form data

Form data is passed to a PHP script via the three arrays:

```
SFIGNET Data from POST client requests

SFIGNETATE OF COMPLETE X an Help

$_REQUEST Combined data from POST and GET client requests (derived from $_POST and $_GET)
```

Form data

Accessing & REQUEST is the equivalent in PHP to using the param rou in ear VerCOGET.COM

<code>\$_REQUEST['username']</code> Value entered into field with name 'username'

\$_REQUEST['fullname'] Value entered into field with name 'fullname'

Forms in PHP: Example (1)

 Create a web-based system that asks the user to enter the URL of a file containing bibliographic information

A sisting thirmenit Phojector was Help

```
name={Jonas Lehner},
name={Andreas Schoknecht},
titl**
titl**

Gentry{
name={Andreas Schoknecht},
name={Eval Edge Ving},
titl**
titl**

The strong variable of t
```

• The system should extract the names, count them, and create a table of names and their frequency, ordered from most frequent to least frequent

Forms in PHP: Example (1)

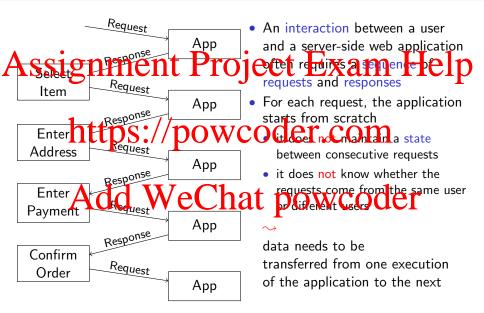
```
extract_names.php
<!DOCTYPE html>
<html><head><title>Name Extraction</title></head><body>
   signment Project Exam Help
    $_SERVER['REQUEST_METHOD'] == 'POST' &&
    isset($_REQUEST['url'])) {
  $extracted_names = extract_names($_REQUEST['url']);
  "In the party appoint Coder. Com Property ("url')),
} else
  echo <<<FORM
  <form method="post">
                 "tetyle Curhat "powcoder. txt">
    </label><br><br></label><br>></pr>
    <input type="submit" value="Extract Names">
  </form>
FORM:
</body></html>
http://cgi.csc.liv.ac.uk/~ullrich/COMP284/examples/extract_names.php
```

Forms in PHP: Example (1)

```
extraction.php
 <?php
 function extract_names($url) {
                                                                    menti Project Exam Help
                                                      "ERROR:
                                                                                            INVALID URL!":
      else {
                $cormect = preg_match_all("/name={([^\}]+)}/",
                $count = array_count_values($matches[1]);
                arsort($count);
                foreaction this space is snumber of the stable of the stab
                $table = "<thead>NameNo of occur".
                "rences </thead>".$table."";
                return $table;
?>
http://cgi.csc.liv.ac.uk/~ullrich/COMP284/examples/extraction.php
```

http://cgi.csc.liv.ac.uk/~ullrich/COMP284/examples/extraction.php

Web Applications Revisited



Transfer of Data: Example

 Assume for a sequence of requests we do not care whether they come from the same user or different users

A spin bidden inputs can be red for the transfer of data from Filelp

```
form1.php
<form action="form2.php" method="post">
 form > https://powcoder.com
form2.php
<form action="process.php" method="post">
  <label Address: Tairput type="text" name="address"></label>
  <input Type hiddin Chame rame "Come"
        value="<?php echo $_REQUEST['name'] ?>">
</form>
process.php
<?php
 echo $_REQUEST['name'];
                          echo $_REQUEST['address'];
?>
```

Sessions

 By default, HTML and web servers do not keep track whether several client requests come from the same user or different users

SIST SPACE TO THE TOTAL TO THE SAME USE OF EXPRESSION FOR THE PROPERTY OF THE

- Sessions help solve this problem by associating client requests with specific refractions maintains with the specific refractions of the spe
- Sessions are often linked to user authentication but session can be used without user authentication, for example, eCommerce websites maintain a 'shopping (Sket Without requiring using the Wicaro (1991)). However, sessions are the mechanism that is typically used to allow or deny access to web pages based on a user having been authenticated

Sessions

 Servers keep track of a user's sessions by using a session identifier, which

As segmented by the forder when the user requests a page from the server

The session identifier can be sent through a cookie or by passing the session identifier in client requests coder.com

- In addition, one can use session variables for storing information to relate to a user and her session (session data), for example, the items of an order / a contract of a contract o
- the item of the WeChat powcoder
- Sessions only store information temporarily

If one needs to preserve information between visits by the same user, one needs to consider a method such as using a cookie or a database to store such information

Cookies

Browser GET /index.html HTTP/1.1 intranet.csc.liv.ac.uk ment Project Exam Help Content-type: text/html Set-Cookie: name1=value1 Set-Cookie: name2=value2: Expires= Thu, 20 Mar 2014, 14:00 GMT (content of index.html) /teaching.html HTTP/1.1 intranet.csc.liv.ac.uk name1=value1; name2=value2 Cookie: Accept: */* owcoder Server HTTP/1.0 200 OK Content-type: text/html Set-Cookie: name1=value3 Set-Cookie: name2=value4; Expires= Fri, 21 Mar 2014, 14:00 GMT Set-Cookie: name3=value5; Expires= Fri, 28 Mar 2014, 20:00 GMT (content of teaching.html)

Wikipedia Contributors: HTTP Cookie. Wikipedia, The Free Encyclopedia, 5 March 2014 20:50. http://en.wikipedia.org/wiki/HTTP_cookie [accessed 6 Mar 2014]

PHP sessions

Sessions proceed as follows

Ssignment Project Exam Help - string session_id([id])

- bool session_regenerate_id([delete_old])
- Main hitteries data powcoder.com

 - \$_SESSION array

 - bool isset (\$ SESSION[key])
 (interacting with a declared as a powcoder
- a End a PHP session
 - bool session_destroy()
 - void session_unset()
 - -bool setcookie(name, value, expires, path)

Start a session

• bool session_start()

Assignmenter Periodecta Esix amed Help

- sets up \$_SESSION array that stores session variables and session data
- the function must be executed before any other header calls or output is produced powcoder.com
- string session_id([id])
 - get or set the session id for the current session
 - the constant of D day also le used in tetries on which the session id as a string suitable for adding to URLs
- string session_name([name])
 - returns the name of the current session
 - if a name is given, the current session name will be replaced with the given one and the old name returned

Start a PHP session

- bool session_regenerate_id([delete_old])
 - replaces the current session id with a new one

- if the optional boolean agument is TRUE, then the current session information is deleted
- regular use of this function alleviates the risk of a session being his deal. / POWCOGET. COM

Maintain session data

- bool session_start()
- resumes the current session based on a session identifier ssignments Project Exam Help restores session variables and session data into \$ SESSION
 - the function must be executed before any other header calls or output the soluced powcoder.com
 - - an associative array containing session variables and session data
 - you are resi on libit for choosing keys (session variables) and manualing the associated to as (se subday)
 - bool isset(\$_SESSION[key]) returns TRUE iff \$_SESSION[key] has already been assigned a value

Maintain session data

- <u>bool</u> session_start()
- Assignment Project Exam Help

End a PHP session

- bool session_destroy()
 - destroys all of the data associated with the current session

As is the session cookie

- void session_unset()
 - · frees littps://powcoder.com
- bool setcookie(name, value, expires, path)
 - defines a cookie to be sent along with the rest of the HTTP headers
 - · must A set the for Wye (put Inpathe prio Wcoder
 - the first argument is the name of the cookie
 - the second argument is the value of the cookie
 - the third argument is time the cookie expires (as a Unix timestamp), and
 - the fourth argument is the parth on the server in which the cookie will be available

End a PHP session

- bool session_destroy()
 - destroys all of the data associated with the current session

Assignment Project Exam Help frees all session variables currently registered

- bool setcookie(name, value, expires, path)
 - defines a gookie to be sent along with the lest of the HTTP headers POWCOGE COM

```
<?php
session_start
             WeChat powcoder
 // force the cookie to expire
 setcookie(session_name(), session_id(), time()-2592000,'/');
session_destroy();
?>
```

Note: Closing your web browser will also end a session

More on session management

if (isset(\$_SESSION['LAST_ACTTVITY']) &&

The following code tracks whether a session is active and ends the session if there has been no activity for more then 30 minutes

```
18 nement Hirry est Exam Help
  session_destroy(); // destroy session data in storage
  session_unset(); // unset session variables
  if (session_id() != "" || isset($_COOKIE[session_name()]))
  // update last activity time stamp
  $_SESSION['LAST_ACTIVITY'] = time();
The following dode ginerates a new session identifier every 30 minutes
  $ SESSION['CREATED'] = time();
 else if (time() - $_SESSION['CREATED'] > 1800) {
         // session started more than 30 minates ago
         session_regenerate_id(true);
```

http://stackoverflow.com/questions/520237/how-do-i-expire-a-php-session-after-30-minutes

\$_SESSION['CREATED'] = time();

PHP sessions Example

PHP sessions: Example

mylibrary.php:

```
Assignment Project Exam Help
 function destroy_session_and_data() {
  session_unset();
 function count requests (that) powcoder
    $_SESSION['requests'] = 1;
  else $_SESSION['requests']++;
 return $_SESSION['requests'];
```

PHP sessions Example

PHP sessions: Example

page1.php:

```
require_once 'mylibrarpohp';

SSI Gim Hear Forect Exam Help

echo "Wello visitor! <br /> This is your page request no ";

echo count_requests()." from this site. <br />\n";

echo '<a href="page1.php">Continue </a> |

?> https://powcoder.com
```

finish.php:

```
<!php
required recomply the phhat powcoder
destroy_session_and_data();
echo "<html><head></head><body>\n";
echo "Goodbye visitor!<br/>br />\n";
echo '<a href="page1.php">Start again</a></body>';
?>
```

http://cgi.csc.liv.ac.uk/~ullrich/COMP284/examples/page1.php

Example

PHP and Cookies

Cookies can survive a session and transfer information from one session to the next

http://cgi.csc.liv.ac.uk/~ullrich/COMP284/examples/cpage1.php

return \$_COOKIE['requests']+1;

setcookie('requests', \$_COOKIE['requests']+1,

time()+31536000, '/'); // valid for 1 year

Authentication Overview

PHP Sessions and Authentication

• Sessions are the mechanism that is typically used to allow or deny access to web pages based on a user having been authenticated

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- We want to protect a page content.php from unauthorised use
- Before being allowed to access content.php, users must first authenticate themselved to providing a sentiment password on the page login.php
- The system maintains a list of valid usernames and passwords in a database and checks usernames and passwords entered by the user against that database
 If the check succeed a cosion prime is some content of the page content. The page content. The page content. The page content.
 The page content. The page content con
- The page content.php checks whether this session variable is set If the session variable is set, the user will see the content of the page If the session variable is not set, the user is redirected to login.php
- The system also provides a logout.php page to allow the user to log out again

PHP Sessions and Authentication: Example

```
Second part of login.php:
<! DOCTYPE html>
<html>
Ssignment Project Exam Help
<body>
 <h1>Login </h1>
 <form action="" method="post">
  <labe his trame. // powcoderacom text">
  </label>
  <label>
  Password:
  cinputAcmic palvi equachadar pro type ose 1a">
  </label>
  <input name="submit" type="submit" value="login</pre>
  <span > <?php echo $error; ? > </span >
 </form>
</body>
</html>
```

http://cgi.csc.liv.ac.uk/~ullrich/COMP284/examples/login.php COMP284 Scripting Languages Lecture 12

PHP Sessions and Authentication: Example

First part of login.php:

```
<?php
            ment Project Exam Help
 // Check whether $user and $passwd are non-empty
 // and match an entry in the database
      https://powcoder.com
if (isset($_POST['submit'])) {
  if (checkCredentials($_REQUEST['user'],$_REQUEST['passwd'])) {
     $_SESSION['user']=$_REQUEST['user']:
     $error = "Username or Password is invalid. Try Again";
  (isset($_SESSION['user'])){
  header("location:content.php");
```

PHP Sessions and Authentication: Example

content.php:

```
ssignment Project Exam Help
  // User is not logged in, redirecting to login page
  header('Location:login.php');
†> https://powcoder.com
<html>
<head><title>Content that requires login</title></head>
<body><br/><h1>ProAddonWeChat powcoder
<b>Welcome <i><?php echo $_SESSION['user'] ?></i></b><br />
<b><a href="logout.php">Log Out</a></b>
</body>
</html>
```

http://cgi.csc.liv.ac.uk/~ullrich/COMP284/examples/content.php

PHP Sessions and Authentication: Example

logout.php:

```
<?php
assignment Project Exam Help
session unset():
session_destroy();
<!DOCTYhttps://powcoder.com</pre>
<head>
<title>Logout</title>
<head>Add WeChat powcoder
<h1>Logout </h1>
<br/>
<b>Goodbye <i><?php echo $user ?></i></b><br />
<b><a href="login.php">Login</a></b>
</form>
</body>
```

http://cgi.csc.liv.ac.uk/~ullrich/COMP284/examples/logout.php

Revision

Assignment Project Exam Help

- Chapter 11: Form Handling
- Chapter 13: Cookies Sessions, and Authentication of https://powcoder.com

R. Nixon:

Learning RHP MySQL, and Chascript. Powcoder
O'Reilly, 2000 WeChat powcoder