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https://eduassistpro.github.

Department of Computer Add We hive mative edu_assist_pr

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COMP284 Scripting Languages

COMP284 Scripting Languages

Web applications using PHP

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Add WeChat edu_assist_pr

https://eduassistpro.github.

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

Lecture 12

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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:

```
A stranger in the project of the pro
```

- 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 webserver and client request am Help Information stored in files and datbases.

- Form d
- Cooki https://eduassistpro.github.i
 - string date(format)

returns the current date/time presented according for example factor (in 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 signature of the current client requirement client requirement

```
<html><he
</pre>

phpin
p
```

```
http://cgAschil.aWechnetsedu_assist_pr
```

INFO_GENERAL The configuration, p

INFO_CONFIGURATION Local and master values for PHP directives

INFO_MODULES Loaded modules

web server

INFO_VARIABLES All EGPCS data

</body></html>

Manipulating the PHP configuration

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

- returns all the registered configuration options
- * stri retu https://eduassistpro.github.
- string ini_set(option, value)
 - sets the def the confinence of the sets the set the sets the set
 - the configuration option will keep this new value duri 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

```
**Spigur French Project Exam Help <a href="https://exam-standardecommons.com/head><a href="https://eduassistpro.github.echo">https://eduassistpro.github.echo</a> 'Request method: ',$_SERVER['REQUEST_METHOD']; ?></body></html>
```

```
http://cgiacsdld.aw.ericlicompaseedu_assist_property 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:

```
A SET 9 Data from POST client requests A SET 9 Data from POST client requests Lam Help $_REQUEST Combined data from POST and GET client requests
```

~ Ac https://eduassistpro.github.

\$_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 Bibliographic method the detection of the property of the pr
```

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

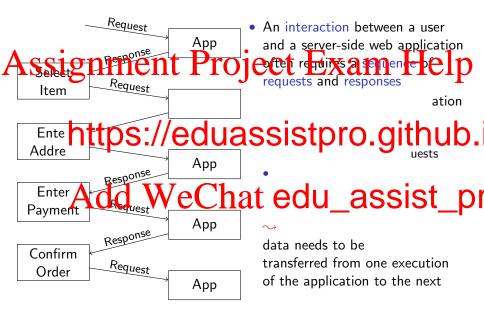
Forms in PHP: Example (1)

```
extract_names.php
<! DOCTYPE html>
<html><head><title>Name Extraction</title></head><body>
                   Signment Project Exam Help
                        $_SERVER['REQUEST_METHOD'] == 'POST' &&
                       isse
              $extrac
              *** https://eduassistpro.github.
              echo <<<FORM
              <form method="post">
                                 cind t dref "tell" tell to curbat "edu_assist_predu_assist_predu_assist_predu_assist_preduction to the control of the curbat "edu_assist_preduction" to the curbat "edu_assist_pred
                        </label><br><br><br><br></ri></ri>
                       <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) {
**SSI2**nment**Project Exam Help
                                                      "ERROR:
                                                                                            INVALID URL!":
       else {
                                https://eduassistpro.github.
                 $count = array_count_values($matches[1]);
                 arsort($count);
                forea (coint state hand all the clubre assist property to the coint state of the coint st
                 $table = "<thead>NameNo of occur".
                 "rences </thead>".$table."";
                 return $table;
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 seed hidden inputs can be pred for the transfer of data from Help

```
form1.php
<form action
</form https://eduassistpro.github.</pre>
form2.php
<form action="process.php" method="post">
 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

- Sessio specifihttps://eduassistpro.github.
- Sessions are often linked to user authentication but session can be used without user authentication, for example, eCom a 'shop Ard sket Whe (rech retuse of legal assist pr However, sessions are the mechanism that is typic

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 is deporated by the proviser when the user requests a page from the server

The ses

https://eduassistpro.github.

- relate to a user and her session (session data), for exa
 - the item Add WeChat edu_assist_pr
- 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

Assignment Project Exam Herep

Content-type: text/html
Set-Cookie: name1=value1

Browser https://eduassistpro.github.

er Add WeChat edu_assistserver pr

Content-type: text/html Set-Cookie: name1=value3

(content of teaching.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

intranet.csc.liv.ac.uk

name1=value1; name2=

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

Cookie:

Accept:

/

PHP sessions

Sesssions proceed as follows

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

- bo
- ^a Mai https://eduassistpro.github.
 - \$_SESSION array
 - bool isset (\$ SESSION[key])
 (interacting vita vide base) at edu_assist_pr
- 3 End a PHP session
 - bool session_destroy()
 - void session_unset()
 - -bool setcookie(name, value, expires, path)

Start a session

bool session_start()

creates a session Assignment Project Exam Help sets up \$_SESSION array that stores session variables and session data

- the fu
 - ° https://eduassistpro.github.
- stri
 - get or set the session id for the current session • the constant of D Wilso le user gretre chu _assist_pression 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
- As significant representation stored a present to the optional boolean agument is TRUE, then the current session info
 - ** re beihttps://eduassistpro.github.

Maintain session data

• bool session_start()

• resumes the current session based on a session identifier

Sesson variables and session data into \$_SESSION

• restores session variables and session data into \$_SESSION

- the fu or othttps://eduassistpro.github.
 - an associative array containing session variables a
 - you are resignatible for choosing keys (session daria and analysishing the associated rate (see Other associated rate)
- bool isset(\$_SESSION[key])
 returns TRUE iff \$_SESSION[key] has already been assigned a value

Maintain session data

- bool session_start()
- Assignment Project Exam Help

End a PHP session

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

S stoe to make the Print of the session cookie

- void
 - * free https://eduassistpro.github.
- bool
 - defines a cookie to be sent along with the rest of the HTTP
 - · must A set the for Wyc put fra the endu_assist_pr
 - 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

• bool

?>

* defi https://eduassistpro.github.

Note: Closing your web browser will also end a session

More on session management

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

```
if (isset ($_SESSION[',LAST_ACTIVITY']) & Exam Help

Starto-Resident Ast_crivity | East | Exam Help

session_destroy(); // destroy session data in storage

session
if (sessio

set | ttps://eduassistpro.github.

$_SESSION[',LAST_ACTIVITY'] = time();
}

The following dods giverates a new session identifier eass is torage.
```

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

PHP sessions Example

PHP sessions: Example

mylibrary.php:

```
Assignment Project Exam Help
 function destroy_session_and_data() {
  session_
  if (sessio
  set https://eduassistpro.github.
 function count revests Chat, edu_assist_property (1 is studies of the country)
     $_SESSION['requests'] = 1;
  else $_SESSION['requests']++;
  return $_SESSION['requests'];
```

PHP sessions Example

PHP sessions: Example

```
page1.php:
```

```
require_once 'mylibrar pohp';

Assignmenthed roject Exam Help

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

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

echo '<a href

?> https://eduassistpro.github.
```

finish.php:

?>

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

echo 'Start again</body>';

Example

PHP and Cookies

PHP sessions

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

```
Sisignment Project Exam Help
session_start();
function des
function the ps://eduassistpro.github.
   setcookie('requests', 1, time()+31536000, '/');
   return 1:
 * *!seAdd, WeChat edurassist up
   setcookie('requests', $_COOKIE['requests']+1,
           time()+31536000, '/'); // valid for 1 year
   return $_COOKIE['requests']+1;
```

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

- Assignment Project Exam Help

 We want to protect a page content php from unauthorised use
 - Bef
 the https://eduassistpro.github.
 - and checks usernames and passwords entered by the user against that database

 If the check succeeds a casion probe ice.
 - If the Aper price Wassion printe is a Sist_printer of the page content.php checks whether this session variable is set, the user will see the content of the page
 - $\bullet\,$ The system also provides a logout.php page to allow the user to log out again

If the session variable is not set, the user is redirected to login.php

</body>

PHP Sessions and Authentication: Example

```
Second part of login.php:
<!DOCTYPE html>
<html>
Signment Project Exam Help
<body>
<h1>Login </h1>
<form acti
 <label https://eduassistpro.github.</p>
 </labe
 <label>
 Password:
 </label>
 <input name="submit" type="submit" value="login</pre>
 <span > <?php echo $error; ? > </span >
</form>
```

http://cgi.csc.liv.ac.uk/~ullrich/COMP284/examples/login.php
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Authentication Example

PHP Sessions and Authentication: Example

First part of login.php:

```
<?php
           ment Project Exam Help
 // Check whether $user and $passwd are non-empty
 // and match an en
ferror= https://eduassistpro.github.
if (isset($_POST['submit'])) {
  if (checkCredentials($_REQUEST['user'],$_REQUEST['passwd'
    $_SESSION['user']=$_REQUEST['user'];
           d Wethat edu assist pr
    $error = "Username or Password is invalid. Try Again";
 (isset($_SESSION['user'])){
  header("location:content.php");
```

Authentication Example

PHP Sessions and Authentication: Example

content.php:

```
Assignment Project Exam Help
  // User is not logged in, redirecting to login page
  heade
†> https://eduassistpro.github.
<ht.ml>
<head><title>Content that requires login</title></head>
<body>AddonWeChat edu_assist_pro
<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

Example

PHP Sessions and Authentication: Example

<?php

session_d

logout.php:

```
assignment Project Exam Help
session unset():
```

?> Thttps://eduassistpro.github. <head>

<title>Logout</title> </head>Add WeChat edu_assist_pre> <h1>Logout </h1>

Goodbye <i><?php echo \$user ?></i>
 Login

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

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</form> </body>

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Revision

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- Chap
- of https://eduassistpro.github.

R. Nixon:

O'Reilly 2001 We Chat edu_assist_pr