

CSC 170 Lab 7: Server-side Includes

For this lab, you will take an existing website with pages that have identical content, separate the content into separate “include” files and post the files to the web server to see if they work.

Part 1: Setup

- Download the ZIP of Lab 7 starter files from the Lab Assignments area of our Blackboard section, and expand the files on your computer or thumb drive into a folder named **lab07**

Part 2: Change the files from HTML to PHP

- ☐ Change the file extensions of all five files from **.html** to **.php**

Part 3: Setup the new “include” files

- ☐ Inside the **lab07** folder create a new folder named **inc**
- ☐ Create five new plain text files with these names:
html-top.inc
nav.inc
footer.inc
- Open all five **.php** files (the files that used to be **.html**) in your code editor
- Open all three **.inc** files in your code editor

Part 4: Replace the header HTML with a PHP “include” script

- ☐ In the file: **index.php** cut the following code to your computer’s clipboard (Ctrl-x on a PC; Cmd-x on a Mac)...

```
<!doctype html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <title>Pets</title>
    <link rel="stylesheet" href="css/styles.css">
</head>
```

...and paste it into the file: **html-top.inc**

- ☐ In the file: **index.php** type the following code in the place where you just made the cut ...

```
<?php include "inc/html-top.inc"; ?>
```

- ❑ In the four other **.php** files, delete the code...

```
<!doctype html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <title>Pets</title>
    <link rel="stylesheet" href="css/styles.css">
</head>
```

...and replace that code with the same line of PHP code in each...

```
<?php include "inc/html-top.inc"; ?>
```

Part 5: Replace the menu HTML with a PHP “include” script

- ❑ In the file: **index.php** cut the following code to your computer’s clipboard...

```
<nav>
    <ul>
        <li><a href="index.html">Home</a></li>
        <li><a href="cats.html">Cats</a></li>
        <li><a href="dogs.html">Dogs</a></li>
        <li><a href="fish.html">Fish</a></li>
        <li><a href="bears.html">Bears</a></li>
    </ul>
</nav>
```

...and paste it into the file: **nav.inc**

- ❑ Edit the code in the **nav.inc** file – replace every instance of **.html** with **.php** (there are five instances.)

```
<nav>
    <ul>
        <li><a href="index.php">Home</a></li>
        <li><a href="cats.php">Cats</a></li>
        <li><a href="dogs.php">Dogs</a></li>
        <li><a href="fish.php">Fish</a></li>
        <li><a href="bears.php">Bears</a></li>
    </ul>
</nav>
```

- ❑ In the file: **index.php** type the following code in the place where you just made the cut ...

```
<?php include "inc/nav.inc"; ?>
```

- ☐ In the four other **.php** files, delete the code...

```
<nav>
  <ul>
    <li><a href="index.html">Home</a></li>
    <li><a href="cats.html">Cats</a></li>
    <li><a href="dogs.html">Dogs</a></li>
    <li><a href="fish.html">Fish</a></li>
    <li><a href="bears.html">Bears</a></li>
  </ul>
</nav>
```

...and replace that code with the same line of PHP code in each...

```
<?php include "inc/nav.inc"; ?>
```

Part 6: Replace the footer HTML with a PHP “include” script

- ☐ In the file: **index.php** cut the following code to your computer’s clipboard...

```
<footer id="page-footer" class="clear">
  <p>A hyperlink: <a href="#" target="_blank">yourname</a>.</p>
</footer>
```

...and paste it into the file: **footer.inc**

- ☐ Edit the code in the include file – replace “yourname” with your name.
- ☐ In the file: **index.php** type the following code in the place where you just made the cut ...

```
<?php include "inc/footer.inc"; ?>
```

- ☐ In the four other **.php** files, delete the code...

```
<footer id="page-footer" class="clear">
  <p>A hyperlink: <a href="#" target="_blank">yourname</a>.</p>
</footer>
```

...and replace that code with the same line of PHP code in each...

```
<?php include "inc/footer.inc"; ?>
```

- Save all the files. Close your code editor.

Part 7: Upload your Work

When you are done with your webpage, close everything and use an FTP tool (like *WinSCP*) to access your account on **urcsc170.org** and upload your files:

- ❑ In a web browser (any), go to this address to check your handiwork:

www.urcsc170.org/accountname/lab07/start.html

(where “*accountname*” is your account name)

Part 8: Report your work

Remember: Use the W3C HTML validator (**validator.w3.org**) AND the W3C CSS validator (**<http://jigsaw.w3.org/css-validator>**) to check your work before you report it!

- In our Blackboard section, in Lab 7, post a link to your webpage to receive credit for this Lab.

- **ALSO, create a ZIP file of your lab07 folder and upload it to the Lab 7 assignment in Blackboard as part of your submission.**

Look! This is new.