Intro to: Final Project, HTML, PHP	
A look at things to come	
The Final Project	
A small web based database application	

- Should have at least 4 entity tables
- Should have at least 4 relationships (including at least one many-to-many relationship)
- Can be done in a group of two
- Should use PHP and HTML to create the web interface

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- HTML is a markup language
- Groups and defines data
- Defines some layout
- (CSS) is responsible for most styling

A basic HTML page

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd"> <html>

<head>

<title>My first web page</title>

</head>

<body>

This is my first web page

</body>

</html>

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Basic elements

- !DOCTYPE is not part of the page, lets browser know what you are going to do
- <tag>..</tag> everything in HTML goes in tags
- <html> contains HTML
- <head> is stuff that is not rendered on the page
- <body> is all the actual content of the page

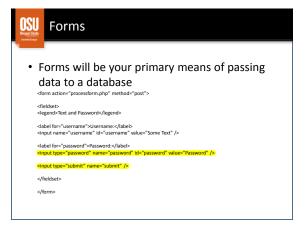


Other important layout tags

- creates a paragraph
-
 creates a line break (it opens and closes in a single <>
- a link creates a link that looks like <u>a link</u> and goes to foo.com
- <hX> where X is a number 1-6 creates heading, h1 being the largest, h6 being the smallest

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• <	rul>
	foo
	bar
	haz
-	This creates a list of items

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· ·		
<tal< th=""><th>ole></th><th></th></tal<>	ole>	
		row 1 column 1
		row 1 column 2
		row 2 column 1
		row 2 column 2
<th>ible></th> <th></th>	ible>	



Forms continued

- <form> all form stuff goes in here
- <fieldset>, <legend>, <label> fancy things to make the form look better
- <input> where data is pulled from when the form is sent also can be used to submit form

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Forms, input

- Types of input (<input type="X">)
 - Text
 - Password
 - Checkbox
 - Radio
 - Submit
 - Reset
 - Hidden
 - Button



Forms, submit

- <form action="foo.php" method="post">
 means that when the form is submitted it will
 be posted to foo.php
- <input type="submit" name="bar"> submits the form and will add a variable named "bar", more on this later

More information

- If you want more check out htmldog.com
- Also the developer tools in Google Chrome and Firebug in Mozilla Firefox are great for looking at existing websites

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Intro to PHP

- PHP is a server side language
- Once the page has loaded, PHP does nothing
- PHP is interpreted by the server
- You will want to run it from your engineering account by visiting the page
- Syntax is somewhat similar to C or Java

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An example hello world

- <html>
- <head>
- <title>PHP Test</title>
- </head>
- <body>
- <?php echo '<p>Hello World'; ?>
- </body>
- </html>
- This will print "Hello World" inside of tags

PHP basics

- All php code must be inside of <?php .. ?>
- Put this as the very first lines on all of you php pages

<?php

ini_set('display_errors', 'On');

?>

• This will give some error reporting, but wont help much for syntax errors

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More php basics

- Pages containing PHP should end in .php
- .php pages can also contain HTML outside of the <?php ?> tag
- Often times servers will process PHP in .html files as well

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Variables

- All variables need to start with a \$
- PHP variables are not of a fixed type
- Type is determined by context
- Many type conversions are automatic

Strings

- Strings are easy to use in PHP
- " . " is the concatenation operator (sticks two strings together)
- \$foo = "test string";
- \$bar = " and more";
- \$baz = \$foo . \$baz; // "foo" . "bar" produces "foobar"
- echo \$baz; //prints "test string and more"

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\$_POST and Associative Arrays

- You will be using the \$_POST variable a lot
- · Stores values from forms
- Same as a dictionary or map
- · Key is the name of the form field
- Value is, unsurprisingly, the value of the form field
- If we had <input name="name"> and we put in "Bart" \$_POST["name"] would contain "Bart" after posting the form



More Information on PHP

• http://php.net/manual/en/