CEMC 2014: Intro to PHP Lesson 1

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Readings

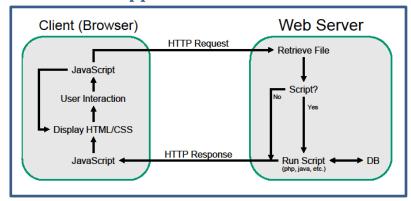
- 1. Sam Scott, PHP for Sheridan Students, 2014: Sections 1 and 2.
- 2. (Optional) Sam Scott, Setting up NetBeans, 2014
- 3. For more details on PHP see w3Schools.

http://www.w3schools.com/php

4. For even more details, see the complete PHP Manual.

http://www.php.net/manual/en/

A Basic Web App Architecture



Client-side scripts make your app **dynamic**.

Server-side scripts let you **customize** what you present to the user.

Setup

To do server-side development, you must have a web server. You can either use mobile.sheridanc.on.ca (preferred option), or you can set up XAMPP or WampServer on your local machine to work offline.

If you are using mobile.sheridanc.on.ca, then to get full error reporting for your PHP programs you need a .htaccess file (note the dot) inside public_html. The contents of this file should be:

```
php_flag display_errors 1
php_value error_reporting 32767
php_flag xdebug.default_enable on
```

It would also be a good idea to set up .htaccess to provide password protection on your work as well. See the main handout for more details.

PHP Basics

PHP programs run on the server side of the client-server interface. PHP programs respond to HTTP requests by creating HTTP responses. The output of a PHP program is usually a text stream consisting of HTML, CSS and/or JavaScript code (though PHP can be used to create other types of responses as well).

<?php ... ?> PHP Tag (2.1,2.2):

Output (2.1,2.2): echo "Hi"; **Or PHP Expression Tag (2.4.2):** <?= ... ?>

Variables (2.4.1): Name with a \$ character: \$varName. No variable declaration is necessary.

Data Types (2.4.1): Weak typing with aggressive implicit typecasting.

Control Structures (2.4.4): The if, else, while, do, for, and switch statements all work the same as in

Java / C / C++ / JavaScript.

Chaining else and if (2.4.4): Use the special elseif operator (one word).

function foo(\$a, \$b) { ... return \$c; } (return is optional) **Functions (2.4.1):**

Use . operator for concatenation. Strings can be single or double quoted. **Strings (2.4.3):**

Use double quotes to embed variable names: echo "hi \$name";

Use curly brackets for array access: echo "hi {\$myArray[\$i]}";

Arrays (2.4.4): \$a=array(); a[0]="first item"; a["make"]="Honda";

Regular Array (2.4.4): \$a=array("first item", "second item", "third item");

\$a=array("make" => "honda", "model"=>"civic"); Associative Array (2.4.4):

Variable Scope (2.4.1): Global or function scope only. All variables used in a function are assumed to be

local unless global keyword is used (global \$x;)

String and Array Functions (2.4.4): Strings and arrays are not objects. Use PHP's built-in global

functions instead of For example, use strlen(\$s) and

count(\$a) instead of \$s.length and \$a.length.

String Function Reference: http://www.w3schools.com/php/php ref string.asp

Array Function Reference: http://www.w3schools.com/php/php ref array.asp

Exercises

Try some of the exercises in section 2.6 of PHP for Sheridan Students.