Tutorial 10 – More PHP

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PHP Arrays

- .An array stores multiple values in one single variable.
- .In PHP, the array() function is used to create an array

PHP Arrays

In PHP, there are three types of arrays:

- (1) Indexed arrays Arrays with a numeric index
- (2) Associative arrays Arrays with named keys
- (3) Multidimensional arrays Arrays containing one or more arrays

PHP Arrays - Indexed Arrays

There are two ways to create indexed arrays:

- •The index can be assigned automatically (index always starts at 0)
- .\$cars = array("Volvo", "BMW", "Toyota");
- or the index can be assigned manually
- •\$cars[0] = "Volvo";
- •\$cars[1] = "BMW";
- •\$cars[2] = "Toyota";

PHP Arrays - Associative Arrays

•Associative arrays are similar to Indexed arrays but you define the indexes yourself.

```
$cars = array(0 => "Volvo", 1 => "BMW", 2=> "Toyota");
$cars = array("Marry" => "Volvo", "John" => "BMW", "Mike" => "Toyota");
or the key can be assigned manually
```

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```
•$cars["Marry"] = "Volvo";
```

.\$cars["John"] = "BMW";

.\$cars["Mike"] = "Toyota";

Loop Through an Associative Array

To loop through and print all the values of an associative array, you could use a foreach loop, like this:

```
<?php
$cars = array("Marry" => "Volvo", "John" => "BMW", "Mike" => "Toyota");

foreach($cars as $key => $value) {
   echo "Key=" . $key . ", Value=" . $value;
   echo "<br>";
}
?>
```

Practice 1

- .Create a new php page that opens a session.
- If the session['views'] is not exist, create the session. If the session exists, count and show how many times the user visits this page.
- If the session has been visited more than 10 times, clear the session.

Practice 2

1)Function: MostFrequent

Parameter(s): String Array

<u>Description:</u> Outputs the string (element) that appears the most frequently within the array. Strings should be case insensitive.

2)Function: uppercaseFirst

Parameter(s): String

<u>Description</u>: For each word in the string, capitalize (uppercase) the first letter and return the modified string.

Practice 2

3)Function: splitSort

Parameter(s): String

<u>Description:</u> Given the string, place each word into an array index and sort it alphabetically before returning the filled array.

Usful Functions: serialize() & unserialize()

- •What if I want to share my PHP variables with others?
- •The serialize() function converts a storable representation of a value.
- •To serialize data means to convert a value to a sequence of bits, so that it can be:
- stored in a file,
- stored in a memory buffer, or
- transmitted across a network.

Usful Functions: file_get_contents()

.The file_get_contents() reads a file into a string.

```
<?php
echo file_get_contents("test.txt");
?>
```

•file_get_contents(path, include_path, context, start, max_length)

•	•path	Required. Specifies the path to the file to read
	•include_path	Optional. Set this parameter to '1' if you want to search for the file in the include_path (in php.ini) as well
	•context	Optional. Specifies the context of the file handle.
	•start	Optional. Specifies where in the file to start reading.
	•max_length	Optional. Specifies the maximum length of data read.

References

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- .https://www.w3schools.com/php/php_sessions.asp
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- .https://www.php.net/manual/en/language.types.array.php
- .Other SOEN287 slides about PHP sessions