**Exercise 02\_06\_01 – Step 1**

PostMessage.php

<!doctype html>

<html>

<head>

<!--

Exercise 02\_06\_01

Author: Mark J. Buckler

Date: November 18, 2017

Filename: PostMessage.php

-->

<title>Post New Message</title>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<script src="modernizr.custom.65897.js"></script>

</head>

<body>

<?php

?>

<h1>Post New Message</h1>

</body>

</html>

------------------------------------

PostMessage.php

<h1>Post New Message</h1>

<hr>

<form action="PostMessage.php" method="post">

<span style="font-weight: bold">Subject: <input   
 type="text" name="subject"></span>

<span style="font-weight: bold">Name: <input type="text"   
 name="name"></span><br>

<textarea name="message" rows="6" cols="80"   
 style="margin: 10px 5px 5px"></textarea><br>

<input type="submit" name="submit" value="Post Message">

<input type="reset" name="reset" value="Reset Form">

</form>

<hr>

<p>

<a href="MessageBoard.php">View Message</a>

</p>

PostMessage.php

<?php

if (isset($\_POST['submit'])) {

$subject = stripslashes($\_POST['subject']);

$name = stripslashes($\_POST['name']);

$message = stripslashes($\_POST['message']);

$subject = str\_replace("~", "-", $subject);

$name = str\_replace("~", "-", $name);

$message = str\_replace("~", "-", $message);

$messageRecord = "$subject~$name~$message\n";

echo $messageRecord; // debug

}

?>

------------------------------------

PostMessage.php

$messageRecord = "$subject~$name~$message\n";  
 $messageFile = fopen("messages.txt", "ab");

if ($messageFile === false) {

echo "There was an error saving your message!\n";

}

else {

fwrite($messageFile, $messageRecord);

fclose($messageFile);

echo "Your message has been saved.\n";

}

------------------------------------

messages.txt

String Question  
Mark Buckler  
Which string function would you use to determine if an essay keyed in a textarea box exceeds the maximum number of words allowed?

Sending Mail with PHP  
Mark Buckler  
What are the three required arguments of the mail() function?

PHP and Directories  
Mark Buckler  
What function returns an indexed array containing the names of files and directories in the specified directory?

**Exercise 02\_06\_01 – Step 2**

MessageBoard.php

<body>

<h1>Message Board</h1>

<?php

?>

<p><a href="PostMessage.php">Post New Message</a></p>

</body>

------------------------------------

debug.php

echo "<pre>\n";

print\_r();

echo "</pre>\n";

------------------------------------

MessageBoard.php

<?php

if (!file\_exists("messages.txt") || filesize("messages.txt")   
 == 0) {

echo "<p>There are no messages posted.</p>\n";

}

else {

$messageArray = file("messages.txt");

echo "<pre>\n";

print\_r($messageArray);

echo "<pre>\n";

}

?>

------------------------------------

MessageBoard.php

$messageArray = file("messages.txt");

echo "<table style=\"background-color: lightgray\"   
 border=\"1\" width=\"100%\">\n";

$count = count($messageArray);

for ($i = 0; $i < $count; $i++) {

$currMsg = explode("~", $messageArray[$i]);

echo "<pre>\n";

print\_r($currMsg);

echo "</pre>\n";

}

echo "</table>\n";

MessageBoard.php

$currMsg = explode("~", $messageArray[$i]);

echo "<tr>\n";

echo "<td width=\"5%\" style=\"text-align: center;   
 font-weight: bold\">" . ($i + 1) . "</td>\n";

echo "<td width=\"95%\"><span style=\"font-weight:   
 bold\">Subject: </span>" .   
 htmlentities($currMsg[0]) . "<br>\n";

echo "<span style=\"font-weight: bold\">Name:   
 </span>" . htmlentities($currMsg[1]) . "<br>\n";

echo "<span style=\"text-decoration: underline;   
 font-weight: bold\">Message: </span><br>\n" .   
 htmlentities($currMsg[2]) . "</td>\n";

echo "</tr>\n";

**Exercise 02\_06\_01 – Step 3**

MessageBoard.php

<p>

<a href="PostMessage.php">Post New Message</a><br>

<a href="MessageBoard.php?action=Delete%20First">Delete   
 First Message</a>

</p>

------------------------------------

MessageBoard.php

<?php

if (isset($\_GET['action'])) {

if (file\_exists("messages.txt") &&   
 filesize("messages.txt") != 0) {

$messageArray = file("messages.txt");

echo "<pre>\n";

print\_r($messageArray);

echo "</pre>\n";

}

}

------------------------------------

MessageBoard.php

$messageArray = file("messages.txt");

switch ($\_GET['action']) {

case 'Delete First':

array\_shift($messageArray);

break;

}

echo "<pre>\n";

print\_r($messageArray);

echo "</pre>\n";

------------------------------------

MessageBoard.php

if (count($messageArray) > 0) {

echo "There are remaining messages in the   
 array.<br>"; // debug

}

else {

unlink("messages.txt");

}

MessageBoard.php

if (count($messageArray) > 0) {

$newMessages = implode($messageArray);

$messageFile = fopen("messages.txt", "wb");

if ($messageFile === false) {

echo "There was an error updating the   
 message file.\n";

}

else {

fwrite($messageFile, $newMessages);

fclose($messageFile);

}

}

**Exercise 02\_06\_01 – Step 4**

MessageBoard.php

<a href="MessageBoard.php?action=Delete%20First">Delete   
 First Message</a><br>

<a href="MessageBoard.php?action=Delete%20Last">Delete Last   
 Message</a>

------------------------------------

MessageBoard.php

case 'Delete Last':

array\_pop($messageArray);

break;

**Exercise 02\_06\_01 – Step 5**

MessageBoard.php

case 'Delete Message':

if (isset($\_GET['message'])) {

array\_splice($messageArray,   
 $\_GET['message'], 1);

}

break;

------------------------------------

MessageBoard.php

echo "<td width=\"85%\"><span style=\"font-weight:   
 bold\">Subject: </span>" .   
 htmlentities($currMsg[0]) . "<br>\n";

------------------------------------

MessageBoard.php

echo "<td width=\"10%\" style=\"text-align:   
 center\">" .

"<a href='MessageBoard.php?" .

"action=Delete%20Message&" .

"message=$i'>" .

"Delete This Message</a></td>\n";

echo "</tr>\n";

**Exercise 02\_06\_01 – Step 6**

MessageBoard.php

case 'Delete Message':

if (isset($\_GET['message'])) {

$index = $\_GET['message'];

unset($messageArray[$index]);

echo "<pre>\n";

print\_r($messageArray);

echo "</pre>\n";

}

break;

------------------------------------

MessageBoard.php

case 'Delete Message':

if (isset($\_GET['message'])) {

$index = $\_GET['message'];

unset($messageArray[$index]);

$messageArray =   
 array\_values($messageArray);

echo "<pre>\n";

print\_r($messageArray);

echo "</pre>\n";

}

break;

**Exercise 02\_06\_01 – Step 7**

MessageBoard.php

<a href="MessageBoard.php?action=Delete%20Last">Delete Last   
 Message</a><br>

<a href="MessageBoard.php?action=Remove%20Duplicates">Remove   
 Duplicates</a>

------------------------------------

MessageBoard.php

case 'Remove Duplicates':

$messageArray = array\_unique($messageArray);

$messageArray = array\_values($messageArray);

break;

**Exercise 02\_06\_01 – Step 8**

MessageBoard.php

/\*

echo "<table style=\"background-color: lightgray\"   
 border = \"1\" width=\"100%\">\n";

\*/

$count = count($messageArray);

/\*

for ($i = 0; $i < $count; $i++) {

...

echo "</table>\n";

\*/

------------------------------------

MessageBoard.php

$count = count($messageArray);

for ($i = 0; $i < $count; $i++) {

$currMsg = explode("~", $messageArray[$i]);

$keyMessageArray[$currMsg[0]] = $currMsg[1] . "~" .   
 $currMsg[2];

}

echo "<pre>\n";

print\_r($keyMessageArray);

echo "</pre>\n";

**Exercise 02\_06\_01 – Step 9**

MessageBoard.php

$index = 1;

$key = key($keyMessageArray);

for ($i = 0; $i < $count; $i++) {

------------------------------------

MessageBoard.php

$key = key($keyMessageArray);

foreach ($keyMessageArray as $message) {

$currMsg = explode("~", $message);

echo "<tr>\n";

echo "<td width=\"5%\" style=\"text-align: center;   
 font-weight: bold\">" . $index . "</td>\n";

echo "<td width=\"85%\"><span style=\"font-weight:   
 bold\">Subject: </span>" . htmlentities($key) .   
 "<br>\n";

echo "<span style=\"font-weight: bold\">Name:   
 </span>" . htmlentities($currMsg[0]) . "<br>\n";

echo "<span style=\"text-decoration: underline;   
 font-weight: bold\">Message </span><br>\n" .   
 htmlentities($currMsg[1]) . "</td>\n";

echo "<td width=\"10%\" style=\"text-align:   
 center\">" .

"<a href='MessageBoard.php?" .

"action=Delete%20Message&" .

"message=" . ($index - 1) .

"'>Delete This Message</a></td>\n";

echo "</tr>\n";

++$index;

next($keyMessageArray);

$key = key($keyMessageArray);

}

**Exercise 02\_06\_01 – Step 10**

PostMessage.php

$message = str\_replace("~", "-",$message);  
 $existingSubjects = array();  
 if (file\_exists("messages.txt") &&   
 filesize("messages.txt") != 0) {  
 $messageArray = file("messages.txt");  
 $count = count($messageArray);  
 echo "$count<br>";  
 }

------------------------------------

PostMessage.php

// $messageRecord = "$subject~$name~$message\n";  
// $messageFile = fopen("messages.txt", "ab");  
// if ($messageFile === false) {  
// echo "There was an error saving your message!\n";  
// }  
// else {  
// fwrite($messageFile, $messageRecord);  
// fclose($messageFile);  
// echo "Your message has been saved.\n";

------------------------------------

PostMessage.php

$count = count($messageArray);

for ($i = 0; $i < $count; $i++) {

$currMsg = explode("~", $messageArray[$i]);

$existingSubjects[] = $currMsg[0];

}

echo "<pre>\n";

print\_r($existingSubjects);

echo "</pre>\n";

------------------------------------

PostMessage.php

if (in\_array($subject, $existingSubjects)) {

echo "<p>The subject <em>\"$subject\"</em> you   
 entered already exists!<br>\n";

echo "Please enter a new subject and try   
 again.<br>\n";

echo "Your message was not saved.</p>";

$subject = "";

}

PostMessage.php

else {

$messageRecord = "$subject~$name~$message\n";

$messageFile = fopen("messages.txt", "ab");

if ($messageFile === false) {

echo "There was an error saving your   
 message!\n";

}

else {

fwrite($messageFile, $messageRecord);

fclose($messageFile);

echo "Your message has been saved.\n";

$subject = "";

$message = "";

}

}

------------------------------------

PostMessage.php

else {

$subject = "";

$name = "";

$message = "";

}

?>

------------------------------------

PostMessage.php

<span style="font-weight: bold">Subject:   
 <input type="text" name="subject"   
 value="<?php echo $subject ?>"></span>

<span style="font-weight: bold">Name:   
 <input type="text" name="name"   
 value="<?php echo $name ?>"></span><br>

<textarea name="message" rows="6" cols="80"   
 style="margin: 10px 5px 5px">  
 <?php echo $message ?></textarea><br>

**Exercise 02\_06\_01 – Step 11**

MessageBoard.php

<a href="PostMessage.php">Post New Message</a><br>  
 <a href="MessageBoard.php?action=Sort%20Ascending">  
 Sort Subjects A-Z</a><br>

------------------------------------

MessageBoard.php

case 'Sort Ascending':

sort($messageArray);

break;

**Exercise 02\_06\_01 – Step 12**

MessageBoard.php

<a href="MessageBoard.php?action=Sort%20Ascending">Sort   
 Subjects A-Z</a><br>

<a href="MessageBoard.php?action=Sort%20Descending">Sort   
 Subjects Z-A</a><br>

------------------------------------

MessageBoard.php

case 'Sort Descending':

rsort($messageArray);

break;