



Web Technologies

Practical 4: Week beginning 26 October 2020

[60 Marks]

1. **Creating a dynamic page using PHP:**

Demonstrate your ability to work with PHP by converting Prac4Q1.html into a PHP file that looks similar to that shown in the next page:

Instructions

- You have been provided with an HTML file (Prac4q1.html) that includes all the necessary markup. Save this file as Prac4q1.php.
- Move the header and footer into two separate include files named art-header.inc.php and art-footer.inc.php. Use the PHP include() function to include each of these files back into the original file.
- Use a for loop to output the special list (see figure below).
- Create a function called outputCartRow() that has the following signature:

```
function outputCartRow($file, $product, $quantity, $price) { }
```

- Implement the body of the outputCartRow() function. It should echo the passed information as a table row. Use the number_format() function to format the currency values with two decimal places. **Calculate the value for the amount column. Replace the two cart table rows in the original with the following calls:**

```
outputCartRow($file1, $product1, $quantity1, $price1);
```

```
outputCartRow($file2, $product2, $quantity2, $price2);
```

- The above variables are defined in the file art-data.php. You will need to include this file.
- Calculate the subtotal, tax, shipping, and grand total using PHP. Replace the hard-coded values with your variables that contain the calculations. Use 10 percent as the tax amount. The shipping value will be \$100 unless the subtotal is above \$2000, in which case it will be \$0.

Use a for loop to output these menu items.

Art Store

View Cart

Image	Product	Quantity	Price	Amount
	Artist Holding a Thistle	3	\$500.00	\$1,500.00
	Self-portrait in a Straw Hat	1	\$700.00	\$700.00
Subtotal				\$2,200.00
Tax				\$220.00
Shipping				\$0.00
Grand Total				\$2,420.00

Continue Shopping Checkout

Just Ordered

- Arrangement in Grey and Black 5 minutes ago
- Artist Holding a Thistle 11 minutes ago
- Self-portrait in a Straw Hat 23 minutes ago

Contact us

Enter name ...

Enter email ...

Enter message ...

Submit

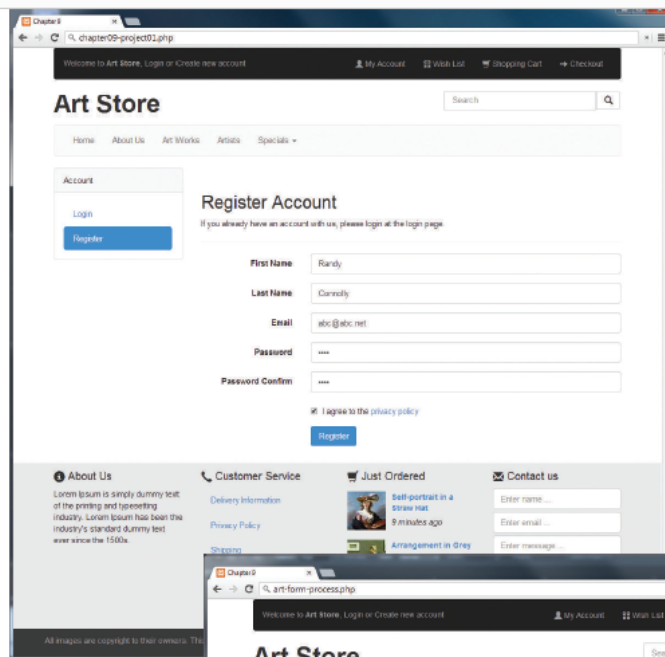
Footer: All images are copyright to their owners. This is just a hypothetical site. © 2014 Copyright Art Store

2. Arrays and Superglobals in PHP

Demonstrate your ability to work with arrays and superglobals in PHP.

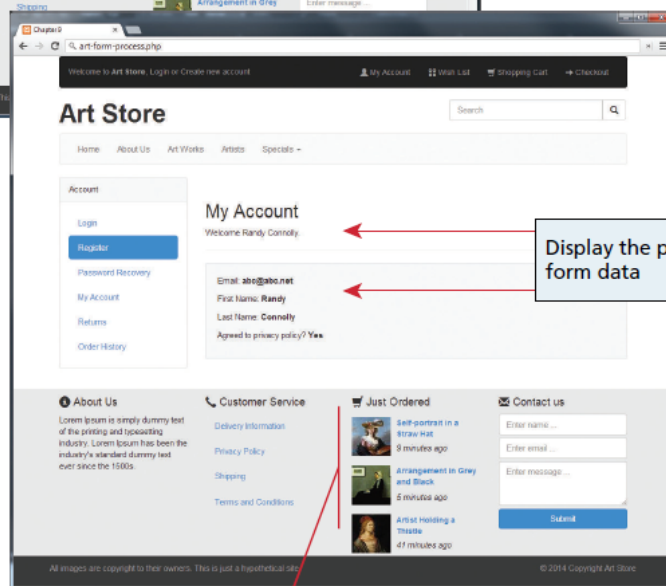
Instructions

- You have been provided with two files: the data entry form (Prac4q2.php) and the page that will process the form data (art-form-process.php). Examine both in the browser.
- Modify Prac4q2.php so that it uses the POST method and art-form-process.php as the form action.
- Modify art-form-process.php so that it displays the email, first name, last name, and privacy values that were entered into the form, as shown in figure below. This will require using the appropriate super-global array. Also display the first name and last name in the welcome greeting.
- In art-form-process.php, define an array that contains the labels for the account menu (see figure below). Replace the hard-coded list in the file with a loop that displays the equivalent list using the contents of your just-defined array. Notice that some conditional logic will be required to add the class="active" attribute to the correct element.
- Modify art-footer.inc.php so that it includes the array defined within art-data.php. Replace the hard-coded markup in the file with a loop that outputs the equivalent markup but uses the data defined in the array.



Modify form so that it uses POST method and uses `art-form-process.php` as the action.

Define an array that contains the labels for this menu of links. Use a loop to display the array elements as a list of links.



Display the passed form data

Modify footer so that this list is displayed via a loop using the array defined within `art-data.php`.

3. Usign LocalStorage to store session data.

As discussed in class we can store session information on the client machine using the LocalStorage technology.

Write a JavaScript code to check the number of visit a user makes to a certain page (you can create your own sample page with a form and a hidden field, named `hiddenData`) and when a certain number of pages reached, displayed a message (immediately after the pages loads).

Instructions

- For this purpose create a simple form with a name text field where the user enters his/her email and submits to the server and the server returns the page with a message "Hi [Name]. Pls check this space for new stuff!" ([name] is the name the user enters).
- After the page is loaded, the script checks if there is a localstorage variable named `noOfVisits`. If there is no variable, it creates and sets it to 1. (Hint: Remember the Lifecycle of an HTML page)
- If there is such a variable, it adds one to the value stored in it.

- d) Check if the number of visits is 5. If so, it assigns 5 to the hidden field (named `hiddenData`) value attribute, and display the message "On behalf of the Server thank you for being a fan of our page" and sets the local storage variable to 0.
- e) The server always checks if the hidden field value is different from 0.
- f) If the hidden field value is different from 0, then it sends a thank you message with H1 tag at the end of the form which says "A big thank you from XXX. Pls continue to visit us!" (XXX should replace the `server name()`. You can get the server name from one of the superglobals. If the server name is not set you can replace the XXX text with "the Server".