12.6.2 Review Questions

1. What are the superglobal arrays in PHP?
2. What function is used to determine if a particular field was sent via query string?
3. How do we handle arrays of values being posted to the server?
4. Describe the relationship between keys and indexes in arrays.
5. How does one iterate through all keys and values of an array?
6. Are arrays sorted by key or by value, or not at all?
7. How would you get a random element from an array?
8. What does `urlencode()` do? How is it "undone"?
9. What information is uploaded along with a file?
10. How do you read or write a file on the server from PHP?
11. List and briefly describe the ways you can limit the types and size of files uploaded.
12. What classes of information are available via the `$_SERVER` superglobal array?
13. Describe why hidden form fields can easily be forged/changed by an end user.
14. What is version control and how does it impact your workflow?
15. How is Git different than GitHub?

12.6.3 Hands-On Practice

PROJECT 1: **Art Store**

DIFFICULTY LEVEL: Beginner

HANDS-ON EXERCISES
Project 12.1

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

Instructions
1. You have been provided with two files: the data entry form (**Chapter12-project1.php**) and the page that will process the form data (**art-process.php**). Examine both in the browser.
2. Modify **Chapter12-project1.php** so that it uses the `POST` method and specify **art-process.php** as the form `action`.
3. Define two string arrays, one containing the genres Abstract, Baroque, Gothic, and Renaissance, and the other containing the subjects Animals, Landscape, and People.
4. Write a function that is passed a string array and which returns a string containing each array element within an <option> element. Use this function to output the Genre and Subject <select> lists.
5. Modify **art-process.php** so that it displays the all the values that were entered into the form, as shown in Figure 12.15. This will require using the appropriate superglobal array.

Create arrays for Genre and Subject.

Write function to generate option elements from a passed array and use it populate these two lists.

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

Display the passed form data.
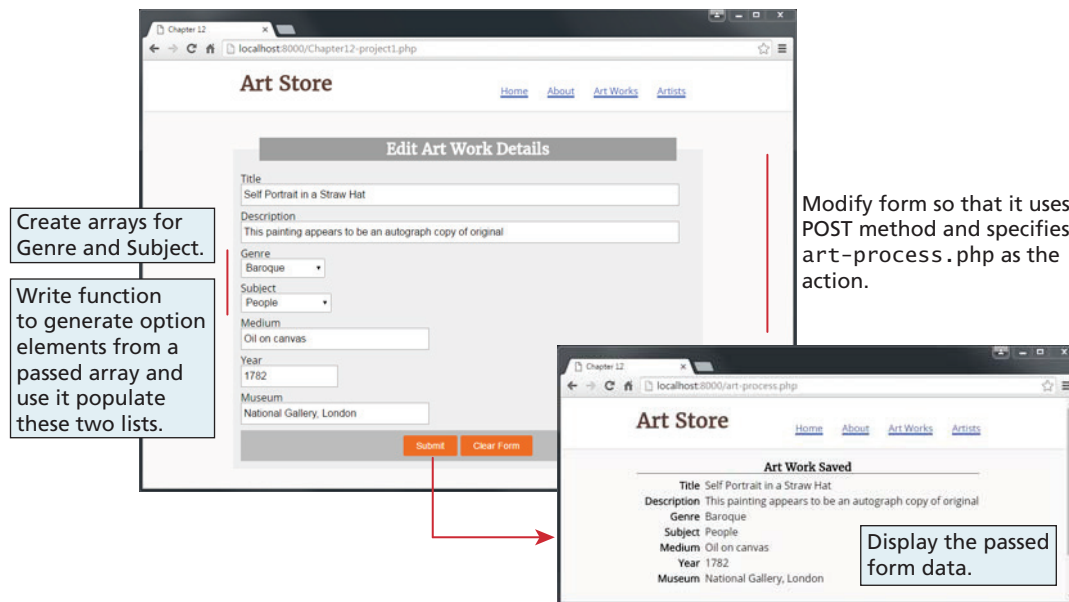
FIGURE 12.15 Completed Project 1

Test
1. Test the page. Remember that you cannot simply open a local PHP page in the browser using its open command. Instead you must have the browser request the page from a server. If you are using a local server such as XAMMP, the file must exist within the **htdocs** folder of the server, and then the request will be **localhost/some-path/Chapter12-project1.php**.

PROJECT 2: Share Your Travel Photos

DIFFICULTY LEVEL: Intermediate

Overview

You have been provided with two files: a page that will eventually contain thumbnails for a variety of travel images (**list.php**) and a page that will eventually display the details of a single travel image (**detail.php**). Clicking a thumbnail in the first file will take you to the second page where you will be able to see details for that image, as shown in Figure 12.16.

HANDS-ON EXERCISES
Project 12.2

Instructions
1. Both pages will make use of arrays that are contained within the include file **travel-data.inc.php**. Include this file in both pages.
2. Both pages display a list of countries. Replace the hard-coded lists by looping through the **$countries** array to display a list (in **details.php**, the list is contained within the include file **left.inc.php**). Be sure to first use a PHP sort