

Test

1. Test the page in the browser. Verify that the calculations work appropriately by changing the values in the data.js file.

PROJECT 2: Photo Sharing Site

DIFFICULTY LEVEL: Intermediate

Overview

Demonstrate your ability to create JavaScript objects and arrays as well as work with inner functions. The final project will look similar to that shown in Figure 8.27.

Instructions

- 1. You have been provided with the HTML file (chapter08-project02.html) that includes the markup (as well as images and stylesheet) for the finished version. Preview the file in a browser. You will be replacing the markup for the four country boxes with a JavaScript loop.
- 2. In the file data.js, create an array named countries that contains four object literals. Each object literal should contain four properties: name, continent, cities, and photos. The cities and photos properties should be arrays containing the city names and image filenames respectively.
- 3. In the file functions.js, create a function named outputCountryBox() that has the signature shown below. This function is going to generate the markup (using document.write) for a single country box.

function outputCountryBox(name,continent,cities,photos)

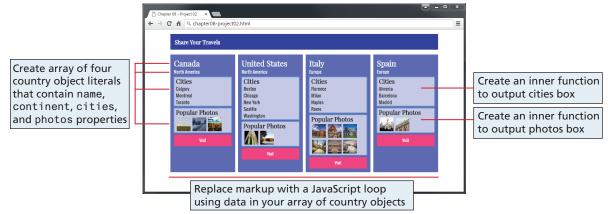


FIGURE 8.27 Completed Project 2









- 4. Inside the outputCountryBox() function, create two inner functions named outputCities() and outputPhotos(). These two functions will have the responsibility to generate the markup for the cities and photo boxes.
- 5. Replace the markup for the country boxes with a loop through your array of countries. Within this loop, call your outputCountryBox() function, passing it the relevant data from the country objects.

Test

1. Test the page in the browser. Verify the correct data is displayed.

PROJECT 3: CRM Admin

DIFFICULTY LEVEL: Intermediate

Overview

Demonstrate your proficiency with JavaScript objects, constructor functions, and prototypes. The final project will look similar to that shown in Figure 8.28.

Instructions

- 1. You have been provided with the HTML file (chapter08-project03.html) that includes the markup (as well as images and stylesheet) for the finished version. Preview the file in a browser. You will be replacing the markup for the five book "cards" with a JavaScript loop.
- 2. Create a JavaScript constructor function called Book () that has the signature shown below. Use the this keyword to save the parameters as object properties.
- 3. Create an array of five Book objects using your function constructor. Pass in the appropriate data (taken from the markup) for each book as parameters. The university data should be passed as an array of names.
- 4. Add a function named outputCard() as a prototype function to your Book function object. This function should generate the markup (using document. write) for a single book card. It should reference the book object's data properties via the this keyword.
- 5. Replace the markup for the book cards with an immediately-invoked function expression that loops through your array of Book objects and calls the object's outputCard() function.

Test

6. Test the page in the browser. Verify the correct data is displayed (including the book title as the cover images title attribute).



Project 8.3



