




Replace markup with
JavaScript loop using
supplied array data

Replace markup with
calls to functions

Shopping Cart

| Product | # | Price | Amount |
|---|---|----------|----------|
|  Girl with a Pearl Earring | 3 | \$80.00 | \$240.00 |
|  Artist Holding a Thistle | 1 | \$125.00 | \$125.00 |
|  Portrait of Eleanor of Toledo | 2 | \$75.00 | \$150.00 |
| Subtotal | | | \$515.00 |
| Tax | | | \$51.50 |
| Shipping | | | \$40.00 |
| Grand Total | | | \$606.50 |

Create function to
output single cart row

Create functions to
calculate these values

FIGURE 8.26 Completed Project 1

- Examine the data file **data.js**. It contains four arrays that we are going to use to programmatically generate the data rows (and replace the hard-coded markup supplied in the HTML file).
- Open the JavaScript file **functions.js** and create a function called `calculateTotal()` that is passed a quantity and price and returns their product (i.e., multiply the two parameter values and return the result).
- Within **functions.js**, create a function called `outputCartRow()` that has the following signature:

```
function outputCartRow(file, title, quantity, price, total) {}
```

- Implement the body of this function. It should use `document.write()` calls to display a row of the table using the passed data. Use the `toFixed()` method of the number variables to display two decimal places.
- Replace the three cart table rows in the original markup with a JavaScript loop that repeatedly calls this `outputCartRow()` function. Put this loop within the **chapter08-project01.js** file. Add the appropriate `<script>` tag to reference this **chapter08-project01.js** file within the `<tbody>` element.
- Calculate the subtotal, tax, shipping, and grand total using JavaScript. Replace the hard-coded values in the markup with your JavaScript calculations. Use 10% as the tax amount. The shipping amount should be \$40 unless the subtotal is above \$1000, in which case it will be \$0.