

The index.php file

```
<?php
// Start session management with a persistent cookie
$lifetime = 60 * 60 * 24 * 14; // 2 weeks in seconds
session_set_cookie_params($lifetime, '/');
session_start();

// Create a cart array if needed
if (empty($_SESSION['cart12'])) { $_SESSION['cart12'] = array(); }

// Create a table of products
$products = array();
$products['MMS-1754'] = array('name' => 'Flute', 'cost' => '149.50');
$products['MMS-6289'] = array('name' => 'Trumpet', 'cost' => '199.50');
$products['MMS-3408'] = array('name' => 'Clarinet', 'cost' => '299.50');

// Include cart functions
require_once('cart.php');

// Get the action to perform
$action = filter_input(INPUT_POST, 'action');
if ($action === NULL) {
    $action = filter_input(INPUT_GET, 'action');
    if ($action === NULL) {
        $action = 'show_add_item';
    }
}

// Add or update cart as needed
switch($action) {
    case 'add':
        $product_key = filter_input(INPUT_POST, 'productkey');
        $item_qty = filter_input(INPUT_POST, 'itemqty');
        add_item($product_key, $item_qty);
        include('cart_view.php');
        break;
    case 'update':
        $new_qty_list = filter_input(INPUT_POST, 'newqty', FILTER_DEFAULT,
                                     FILTER_REQUIRE_ARRAY);
        foreach($new_qty_list as $key => $qty) {
            if ($_SESSION['cart12'][$key]['qty'] != $qty) {
                update_item($key, $qty);
            }
        }
        include('cart_view.php');
        break;
    case 'show_cart':
        include('cart_view.php');
        break;
    case 'show_add_item':
        include('add_item_view.php');
        break;
    case 'empty_cart':
        unset($_SESSION['cart12']);
        include('cart_view.php');
        break;
}
```

Figure 12-10 The index.php file of the Shopping Cart application

The add_item_view.php file

```

<!DOCTYPE html>
<html>
<head>
  <title>My Guitar Shop</title>
  <link rel="stylesheet" type="text/css" href="main.css">
</head>
<body>
  <header>
    <h1>My Guitar Shop</h1>
  </header>
  <main>
    <h1>Add Item</h1>
    <form action="." method="post">
      <input type="hidden" name="action" value="add">

      <label>Name:</label>
      <select name="productkey">
        <?php foreach($products as $key => $product) :
          $cost = number_format($product['cost'], 2);
          $name = $product['name'];
          $item = $name . ' ($' . $cost . ')';
        <?php
          <option value="<?php echo $key; ?>"
            <?php echo $item; ?>
          </option>
        <?php endforeach; ?>
      </select><br>

      <label>Quantity:</label>
      <select name="itemqty">
        <?php for($i = 1; $i <= 10; $i++) : ?>
          <option value="<?php echo $i; ?>"
            <?php echo $i; ?>
          </option>
        <?php endfor; ?>
      </select><br>

      <label>&nbsp;</label>
      <input type="submit" value="Add Item">
    </form>
    <p><a href="?.action=show_cart">View Cart</a></p>
  </main>
</body>
</html>

```

Figure 12-12 The add_item_view.php file of the Shopping Cart application

The cart.php file

```

<?php
// Add an item to the cart
function add_item($key, $quantity) {
    global $products;
    if ($quantity < 1) return;

    // If item already exists in cart, update quantity
    if (isset($_SESSION['cart12'][$key])) {
        $quantity += $_SESSION['cart12'][$key]['qty'];
        update_item($key, $quantity);
        return;
    }

    // Add item
    $cost = $products[$key]['cost'];
    $total = $cost * $quantity;
    $item = array(
        'name' => $products[$key]['name'],
        'cost' => $cost,
        'qty' => $quantity,
        'total' => $total
    );
    $_SESSION['cart12'][$key] = $item;
}

// Update an item in the cart
function update_item($key, $quantity) {
    $quantity = (int) $quantity;
    if (isset($_SESSION['cart12'][$key])) {
        if ($quantity <= 0) {
            unset($_SESSION['cart12'][$key]);
        } else {
            $_SESSION['cart12'][$key]['qty'] = $quantity;
            $total = $_SESSION['cart12'][$key]['cost'] *
                $_SESSION['cart12'][$key]['qty'];
            $_SESSION['cart12'][$key]['total'] = $total;
        }
    }
}

// Get cart subtotal
function get_subtotal() {
    $subtotal = 0;
    foreach ($_SESSION['cart12'] as $item) {
        $subtotal += $item['total'];
    }
    $subtotal_f = number_format($subtotal, 2);
    return $subtotal_f;
}
?>

```

Figure 12-11 The cart.php file of the Shopping Cart application

The cart_view.php file

Page 1

```

<!DOCTYPE html>
<html>
<head>
  <title>My Guitar Shop</title>
  <link rel="stylesheet" type="text/css" href="main.css">
</head>
<body>
  <header>
    <h1>My Guitar Shop</h1>
  </header>
  <main>
    <h1>Your Cart</h1>
    <?php if (empty($_SESSION['cart12']) ||
      count($_SESSION['cart12']) == 0) : ?>
      <p>There are no items in your cart.</p>
    <?php else: ?>
      <form action="." method="post">
        <input type="hidden" name="action" value="update">
        <table>
          <tr id="cart_header">
            <th class="left">Item</th>
            <th class="right">Item Cost</th>
            <th class="right">Quantity</th>
            <th class="right">Item Total</th>
          </tr>

          <?php foreach( $_SESSION['cart12'] as $key => $item ) :
            $cost = number_format($item['cost'], 2);
            $total = number_format($item['total'], 2);
          ?>
          <tr>
            <td>
              <?php echo $item['name']; ?>
            </td>
            <td class="right">
              $<?php echo $cost; ?>
            </td>
            <td class="right">
              <input type="text" class="cart_qty"
                name="newqty[<?php echo $key; ?>]"
                value="<?php echo $item['qty']; ?>"
            </td>
            <td class="right">
              $<?php echo $total; ?>
            </td>
          </tr>
        <?php endforeach; ?>
      </table>
    </form>
  </main>
</body>
</html>

```

Figure 12-13 The cart_view.php file of the Shopping Cart application (part 1 of 2)

The cart_view.php file

Page 2

```
<tr id="cart_footer">
  <td colspan="3"><b>Subtotal</b></td>
  <td>${?php echo get_subtotal(); ?}</td>
</tr>
<tr>
  <td colspan="4" class="right">
    <input type="submit" value="Update Cart">
  </td>
</tr>
</table>
<p>Click "Update Cart" to update quantities in your
cart. Enter a quantity of 0 to remove an item.
</p>
</form>
<?php endif; ?>
<p><a href=".?action=show_add_item">Add Item</a></p>
<p><a href=".?action=empty_cart">Empty Cart</a></p>
</main>
</body>
</html>
```