```php
<?php
session_start();
require_once("dbcontroller.php");
$db_handle = new DBController();
if(!empty($_GET["action"])) {
switch($_GET["action"]) {
        case "add":
                if(!empty($_POST["quantity"])) {
                        $productByCode = $db_handle->runQuery("SELECT * FROM tblproduct WHERE
code='" . $_GET["code"] . "'");
                        $itemArray =
array($productByCode[0]["code"]=>array('name'=>$productByCode[0]["name"],
'code'=>$productByCode[0]["code"], 'quantity'=>$_POST["quantity"],
'price'=>$productByCode[0]["price"], 'image'=>$productByCode[0]["image"]));

                        if(!empty($_SESSION["cart_item"])) {

if(in_array($productByCode[0]["code"],array_keys($_SESSION["cart_item"]))) {
                                        foreach($_SESSION["cart_item"] as $k => $v) {
                                                if($productByCode[0]["code"] == $k) {

if(empty($_SESSION["cart_item"][$k]["quantity"])) {

$_SESSION["cart_item"][$k]["quantity"] = 0;
                                                        }

$_SESSION["cart_item"][$k]["quantity"] += $_POST["quantity"];
                                                }
                                        }
                                } else {
                                        $_SESSION["cart_item"] =
array_merge($_SESSION["cart_item"],$itemArray);
                                }
                        } else {
                                $_SESSION["cart_item"] = $itemArray;
                        }
                }
        break;
        case "remove":
                if(!empty($_SESSION["cart_item"])) {
                        foreach($_SESSION["cart_item"] as $k => $v) {
                                if($_GET["code"] == $k)
                                        unset($_SESSION["cart_item"][$k]);

                                if(empty($_SESSION["cart_item"]))
                                        unset($_SESSION["cart_item"]);
                        }
                }
        break;
        case "empty":
                unset($_SESSION["cart_item"]);
        break;
}
}
?>
<HTML>
<HEAD>
<TITLE>Simple PHP Shopping Cart</TITLE>
<link href="style.css" type="text/css" rel="stylesheet" />
</HEAD>
<BODY>
<div id="shopping-cart">
```

```php
<div class="txt-heading">Shopping Cart</div>

<a id="btnEmpty" href="index.php?action=empty">Empty Cart</a>
<?php
if(isset($_SESSION["cart_item"])){
    $total_quantity = 0;
    $total_price = 0;
?>
<table class="tbl-cart" cellpadding="10" cellspacing="1">
<tbody>
<tr>
<th style="text-align:left;">Name</th>
<th style="text-align:left;">Code</th>
<th style="text-align:right;" width="5%">Quantity</th>
<th style="text-align:right;" width="10%">Unit Price</th>
<th style="text-align:right;" width="10%">Price</th>
<th style="text-align:center;" width="5%">Remove</th>
</tr>
<?php
    foreach ($_SESSION["cart_item"] as $item){
        $item_price = $item["quantity"]*$item["price"];
            ?>
                    <tr>
                    <td><img src="<?php echo $item["image"]; ?>"
class="cart-item-image" /><?php echo $item["name"]; ?></td>
                    <td><?php echo $item["code"]; ?></td>
                    <td style="text-align:right;"><?php echo $item["quantity"];
?></td>
                    <td  style="text-align:right;"><?php echo "$ ".$item["price"];
?></td>
                    <td  style="text-align:right;"><?php echo "$ ".
number_format($item_price,2); ?></td>
                    <td style="text-align:center;"><a
href="index.php?action=remove&code=<?php echo $item["code"]; ?>"
class="btnRemoveAction"><img src="icon-delete.png" alt="Remove Item" /></a></td>
                    </tr>
                    <?php
                    $total_quantity += $item["quantity"];
                    $total_price += ($item["price"]*$item["quantity"]);
            }
            ?>

<tr>
<td colspan="2" align="right">Total:</td>
<td align="right"><?php echo $total_quantity; ?></td>
<td align="right" colspan="2"><strong><?php echo "$ ".number_format($total_price, 2);
?></strong></td>
<td></td>
</tr>
</tbody>
</table>
  <?php
} else {
?>
<div class="no-records">Your Cart is Empty</div>
<?php
}
?>
</div>

<div id="product-grid">
        <div class="txt-heading">Products</div>
```

```php
<?php
        $product_array = $db_handle->runQuery("SELECT * FROM tblproduct ORDER BY id ASC");
        if (!empty($product_array)) {
                foreach($product_array as $key=>$value){
        ?>
                <div class="product-item">
                        <form method="post" action="index.php?action=add&code=<?php echo
$product_array[$key]["code"]; ?>">
                        <div class="product-image"><img src="<?php echo
$product_array[$key]["image"]; ?>"></div>
                        <div class="product-tile-footer">
                        <div class="product-title"><?php echo $product_array[$key]["name"];
?></div>
                        <div class="product-price"><?php echo
"$".$product_array[$key]["price"]; ?></div>
                        <div class="cart-action"><input type="text" class="product-quantity"
name="quantity" value="1" size="2" /><input type="submit" value="Add to Cart"
class="btnAddAction" /></div>
                        </div>
                        </form>
                </div>
        <?php
                }
        }
        ?>
</div>
</BODY>
</HTML>

<?php
class DBController {
        private $host = "localhost";
        private $user = "root";
        private $password = "test";
        private $database = "blog_samples";
        private $conn;

        function __construct() {
                $this->conn = $this->connectDB();
        }

        function connectDB() {
                $conn =
mysqli_connect($this->host,$this->user,$this->password,$this->database);
                return $conn;
        }

        function runQuery($query) {
                $result = mysqli_query($this->conn,$query);
                while($row=mysqli_fetch_assoc($result)) {
                        $resultset[] = $row;
                }
                if(!empty($resultset))
                        return $resultset;
        }

        function numRows($query) {
                $result  = mysqli_query($this->conn,$query);
                $rowcount = mysqli_num_rows($result);
                return $rowcount;
```

```
        }
    }
?>
```