

Project Name: Clearview Grocery

Team Name: Clearview

Team Leader: Dan Imbimbo

Team Members: Dan Imbimbo

Team meetings: None, since I worked alone.

Contributions: Everything was coded and documented by me.

Project Summary: The goal of this website was to act as an online e-store that would allow for customers to complete purchases, while also allowing for employees to review information stored in the store's database.

Table of contents:

Initial directory: **index.php** – initial website view; **main.css** – holds CSS style rules; **clearview.sql** – sql database initialization query

Model: **database.php** – creation of PDO for connecting to database; **categoryFunctions.php** – functions pertaining to the category table of the database; **productFunctions.php** – functions pertaining to the product table of the database; **empFunctions.php** – functions pertaining to the employee table of the database; **orderFunctions.php** – functions pertaining to the order table of the database.

View: **header.php** – header for the initial website view, **footer.php** – footer for all views, **custHeader.php** – header for the customer view of the website, **empHeader.php** – header for the employee view of the website

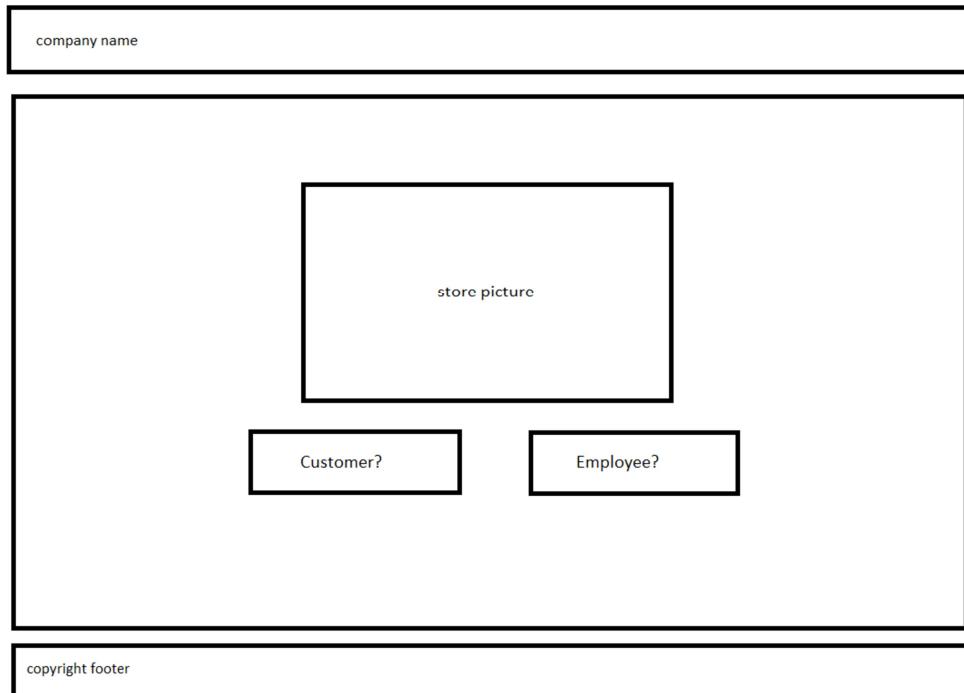
Customer view: **about.php** – page displaying information about the website; **products.php** – determines the action taken for the products page; **productsDisplay.php** – displays the products page and feeds actions to products.php; **cart.php** – determines the action taken for the cart page; **cartDisplay.php** - displays the cart page and feeds actions to cart.php; **checkout.php** – displays the customer checkout form.

Employee view: **login.php** – displays the employee login page; **checkLogin.php** – verifies the employee login from login.php; **empsTable.php** – determines the action taken for the employee table page; **empsDisplay.php** – displays the employee table page and feeds actions to empsTable.php; **newEmp.php** – displays the new employee form; **prodsTable.php** – determines the action taken for the product table page; **prodsDisplay.php** – displays the product table page and feeds actions to pro-

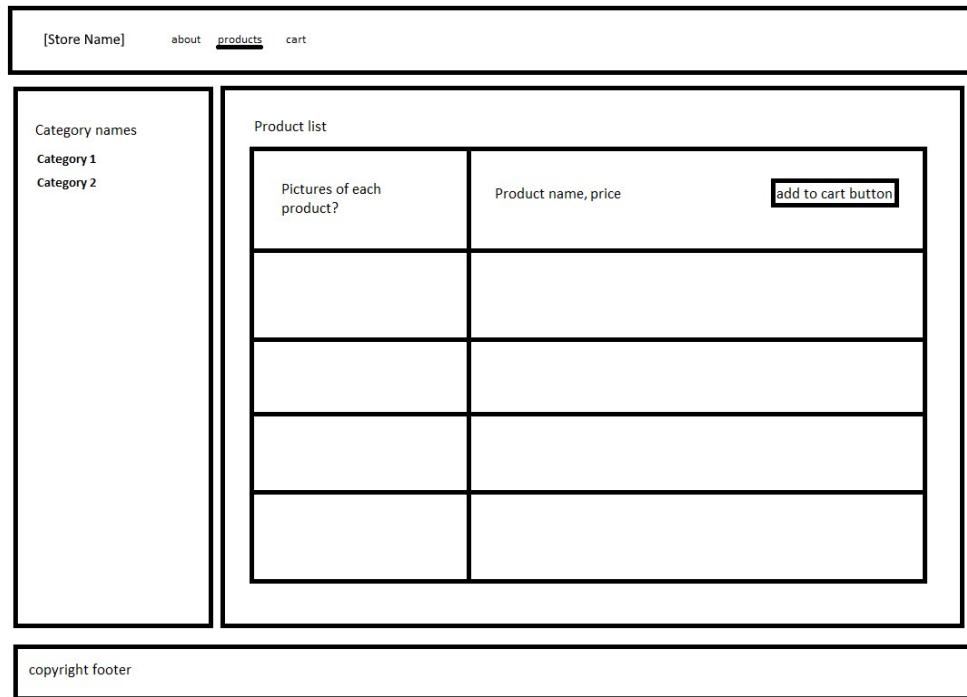
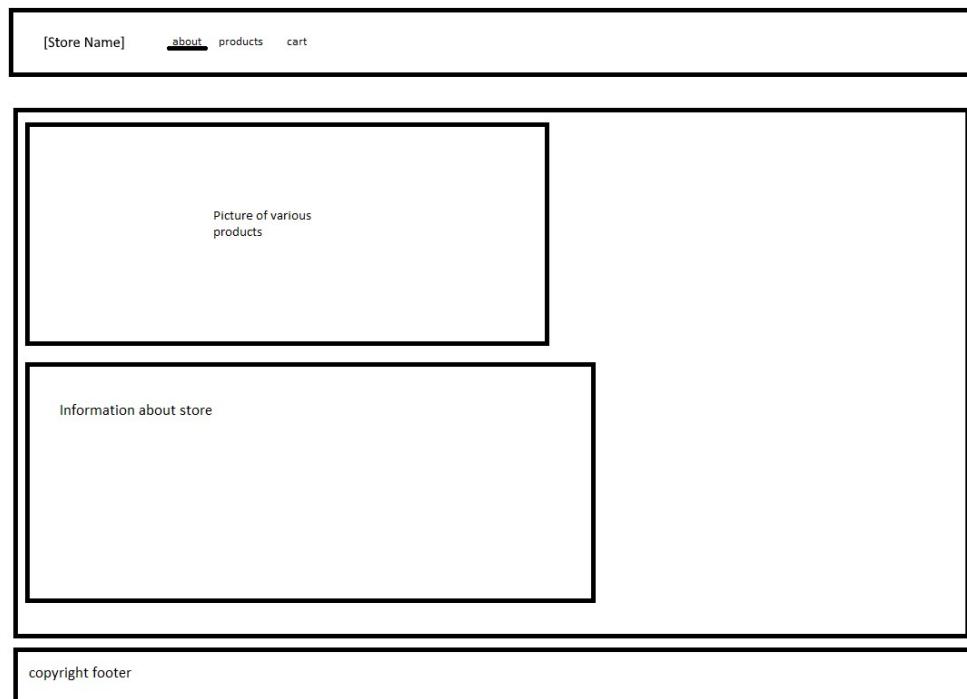
sTable.php, **newProd.php** – displays the new product form; **ordersTable.php** – determines the action taken for the order table page; **ordersDisplay.php** – displays the order table page and feeds actions to **ordersTable.php**.

Wireframes:

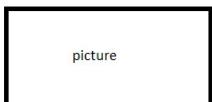
Initial View:



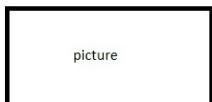
Customer View:



Products in cart (small pictures, prices, quantity of each)



Product Name	Quantity	Price
--------------	----------	-------



Product Name	Quantity	Price
--------------	----------	-------

Total sum and checkout button

copyright footer

confirm order form with name,
address, card num, etc

Name

Address

Zip Code

Card Number

copyright footer

Employee View:

Employee Login

Email

Password

copyright footer

[Store Name] [Admin Tables](#)

Products

Employees

Orders

Product ID	Category ID	Product Name	Price	Picture (location)	<input type="button" value="Delete"/>

copyright footer

[Store Name] Admin Tables

copyright footer

[Store Name] Admin Tables

copyright footer

add employee

Department

Name

Salary

Email

Password

Confirm

copyright footer

Products

Employees

Orders

Order ID	Order Date	Order Total	Customer Name	Delete

copyright footer

User Manual: The website first allows users to choose whether they are a customer or an employee. Assuming they choose they are a customer, the first thing they will see is the about page of the website, which displays a brief description on the site itself. The customer view allows has a navigation bar allowing for the customer to choose whether they want to traverse to the about page, the products page, their current cart, or return to the initial view. If they move to the products page, they will see that the products are listed by categories off to the left-hand side of the page, and they can choose a different category to view the products within it. Users can also choose to add one of the items to their cart, which will take them to their view of the cart. In the cart they can choose to remove 1 of any items that they have or choose to checkout. If they choose to checkout they are taken to the checkout form where they must enter their name, address, and card number before choosing to place the order. After placing the order they will be presented with a message thanking them for their purchase and sent back to the initial view.

In the case of choosing the employee option on the initial view, the user will be presented with a login screen where they must enter an email and password which will be checked against those in the database, and if it is valid then they will be presented with the table view of employees at the company. If they are logged in as the CEO, then they will see the option to fire employees and to add a new one, which will bring up a form for the new employee's information. The navigation bar in the employee view provides the options of viewing the employee table, the products table, the orders table, or log out and return to the initial view. In the case of choosing the products table, it will display all of the products for purchase on the site and allow the CEO to add new products in a similar fashion to adding employees. And lastly, if the order table is chosen it will display all placed orders, allowing the CEO to delete any.

Source Code:

-main.css

```
#user:valid {  
    background-color: #E8F0FE  
}  
  
header {  
    border-bottom: 2px solid;  
    padding-bottom: 1em;  
}  
  
footer {  
    border-top: 2px solid;  
    padding: 1em 1em;  
    text-align: right;  
}  
  
body {  
    background-color:wheat;  
}  
  
th {  
    padding: 10px 10px;  
}  
  
td {  
    padding: 10px 10px;  
}  
  
.picture{  
    padding-right: 0px;  
}
```

-index.php

```
<!--Includes the defined header-->
<?php include 'view/header.php'; ?>

<?php //Ends old sessions
    session_start();
    //unsets all session variables
    $_SESSION = array();
    //removes session ID
    session_destroy();
?>

<main>
    <div class="container-fluid" style="text-align:center">
        <h1>Welcome!</h1>
        <p></p>
            <!--Links to either user view or employee view-->
            <div style="padding-bottom: 1em">
                <h6>Please select your role:</h6>
                <a href="customer/about.php" class="btn btn-success">Customer</a>
                <a href="employee/login.php" class="btn btn-success">Employee</a>
            </div>
    </div>
</main>

<!--Includes the defined footer-->
<?php include 'view/footer.php'; ?>
```

-header.php

```
<!DOCTYPE html>
<html>
<!-- the head section -->
<head>
    <title>Clearview Grocery</title>
    <meta charset = "utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhWr7x9JvoRxT2MZw1T" crossorigin="anonymous">
        <!-- Optional JavaScript -->
        <!-- jQuery first, then Popper.js, then Bootstrap JS -->
        <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abTE1Pi6jizo" crossorigin="anonymous"></script>
```

```

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIH-
NDz0W1" crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
crossorigin="anonymous"></script>

    <link rel="stylesheet" type="text/css" href="/ClearviewProject/main.css">
</head>
```

```

<!-- the body section -->
<body>
    <header>
        <!--Navbar START-->
        <nav class="navbar navbar-expand-sm navbar-dark bg-dark sticky-top" >
            <a class="navbar-brand h1 text-white">Clearview Grocery</a>
        </nav>
        <!--Navbar END-->
    </header>
```

-footer.php

```

<footer>
    <p class="copyright">
        &copy; <?php echo date("Y"); ?> Clearview
    </p>
</footer>
</body>
</html>
```

-custHeader.php

```

<!DOCTYPE html>
<html>
<!-- the head section -->
<head>
    <title>Clearview Grocery</title>
    <meta charset = "utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUO-hcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">
    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIH-
NDz0W1" crossorigin="anonymous"></script>
```

```

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-JJSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
crossorigin="anonymous"></script>

    <link rel="stylesheet" type="text/css" href="/ClearviewProject/main.css">
</head>

<!-- the body section -->
<body>
    <header>
        <!--Navbar START-->
        <nav class="navbar navbar-expand-sm navbar-dark bg-dark sticky-top" >
            <a class="navbar-brand h1 text-white">Clearview Grocery</a>
            <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#collapsing-
Nav">
                <span class="navbar-toggler-icon"></span>
            </button>

            <div class="collapse navbar-collapse" id="collapsingNav">
                <ul class="navbar-nav ml-auto">
                    <li class="nav-item">
                        <a class="nav-link" href="about.php">about</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="products.php">products</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="cart.php">cart</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="../index.php" style="font-weight:bold">EXIT</a>
                    </li>
                </ul>
            </div>
        </nav>
        <!--Navbar END-->
    </header>

```

-empHeader

```

<!DOCTYPE html>
<html>
    <!-- the head section -->
    <head>
        <title>Clearview Grocery</title>
        <meta charset = "utf-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
        <!-- Bootstrap CSS -->

```

```

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhWr7x9JvoRxT2MZw1T" crossorigin="anonymous">
    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzbzo5smXKp4YfRvH+8abTE1Pi6jizo" crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>

        <link rel="stylesheet" type="text/css" href="/ClearviewProject/main.css">
</head>

<!-- the body section -->
<body>
    <header>
        <!--Navbar START-->
        <nav class="navbar navbar-expand-sm navbar-dark bg-dark sticky-top" >
            <a class="navbar-brand h1 text-white">Clearview Grocery</a>
            <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#collapsingNav">
                <span class="navbar-toggler-icon"></span>
            </button>

            <div class="collapse navbar-collapse" id="collapsingNav">
                <ul class="navbar-nav ml-auto">
                    <li class="nav-item">
                        <a class="nav-link" href="empsTable.php">Employees</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="prodsTable.php">Products</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="ordersTable.php">Orders</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="../index.php" style="font-weight:bold">LOG OUT</a>
                    </li>
                </ul>
            </div>
        </nav>
        <!--Navbar END-->
    </header>

```

-database.php

```
<?php
$dsn = 'mysql:host=localhost;dbname=clearviewDatabase';
$username = 'clearview';
$password = 'clearviewpass';

try {
    $db = new PDO($dsn, $username, $password);
} catch (PDOException $e) {
    $error_message = $e->getMessage();
    echo "<p>An error occurred while connecting
          to the database: $error_message</p>";
    exit();
}
?>
```

-categoryFunctions.php

```
<?php
//retrieves all categories
function getcats() {
    global $db;
    $query = 'SELECT * FROM categories
              ORDER BY categoryID';
    $statement = $db->prepare($query);
    $statement->execute();
    $categories = $statement->fetchAll();
    $statement->closeCursor();
    return $categories;
}

//retrieves the category associated with the given categoryID
function getCatName($categoryID) {
    global $db;
    $query = 'SELECT * FROM categories
              WHERE categoryID = :categoryID';
    $statement = $db->prepare($query);
    $statement->bindValue(':categoryID', $categoryID);
    $statement->execute();
    $category = $statement->fetch();
    $statement->closeCursor();
    $categoryName = $category['categoryName'];
    return $categoryName;
}
?>
```

-empFunctions.php

```
<?php
//retrieves all employees from database
function getEmps() {
```

```

global $db;
$query = 'SELECT * FROM Employees';
$statement = $db->prepare($query);
$statement->execute();
$employees = $statement->fetchAll();
$statement->closeCursor();
return $employees;
}

//removes employee with specified ID from database
function fireEmp($empID) {
    global $db;
    $query = 'DELETE FROM Employees
              WHERE empID = :empID';
    $statement = $db->prepare($query);
    $statement->bindValue(':empID', $empID);
    $statement->execute();
    $statement->closeCursor();
}

//inserts new employee into database
function hireEmp($empName,$salary,$department,$email,$password){
    global $db;
    $query = 'INSERT INTO Employees
              (deptID, empName, salary, email, password)
              VALUES
              (:deptID, :empName, :salary, :email, :password)';
    $statement = $db->prepare($query);
    $statement->bindValue(':deptID', $department);
    $statement->bindValue(':empName', $empName);
    $statement->bindValue(':salary', $salary);
    $statement->bindValue(':email', $email);
    $statement->bindValue(':password', $password);
    $statement->execute();
    $statement->closeCursor();
}
?>

```

-orderFunctions.php

```

<?php
//Creates or resumes session (if not already started)
if(!isset($_SESSION))
{
    session_start();
}

//Add an item to the cart
function addItem($item) {
    //If item already exists in cart, increment quantity

```

```

if (isset($_SESSION['cart'][$item['productID']])) {
    $_SESSION['cart'][$item['productID']]['quantity]++;
    return;
}
//Else adds item array to session cart
else{
    $_SESSION['cart'][$item['productID']] = $item;
}
}

//Gets total of cart items
function getTotal() {
    $subtotal = 0;
    foreach ($_SESSION['cart'] as $item) {
        $subtotal += ($item['price'] * $item['quantity']);
    }
    $total = number_format($subtotal, 2);
    return $total;
}

//Inserts order into database
function addOrder($custName,$custAddress,$custZip,$custCard){
    global $db;
    $query = 'INSERT INTO Orders
              (orderTotal, orderDate, custName, custAddress, custZip, custCard)
              VALUES
              (:orderTotal, :orderDate, :custName, :custAddress, :custZip, :custCard)';
    $statement = $db->prepare($query);
    $orderTotal = getTotal();
    $statement->bindValue(':orderTotal', $orderTotal);
    date_default_timezone_set("America/New_York");
    $orderDate = date("Y-m-d H:i:s");
    $statement->bindValue(':orderDate', $orderDate);
    $statement->bindValue(':custName', $custName);
    $statement->bindValue(':custAddress', $custAddress);
    $statement->bindValue(':custZip', $custZip);
    $statement->bindValue(':custCard', $custCard);
    $statement->execute();
    $statement->closeCursor();

    //add the order items to the database using the same orderID
    $idArray = getOrderId($orderDate,$orderTotal,$custName);
    addOrderItems($idArray["orderID"]);
}

//retrieve orderID for use with addOrderItems function
function getOrderId($orderDate, $orderTotal, $custName){
    global $db;
    $query = 'SELECT orderID FROM Orders

```

```

        WHERE orderDate = :orderDate
        AND orderTotal = :orderTotal
        AND custName = :custName';
$statement = $db->prepare($query);
$statement->bindValue(":orderDate", $orderDate);
$statement->bindValue(":orderTotal", $orderTotal);
$statement->bindValue(":custName", $custName);
$statement->execute();
$idArray = $statement->fetch();
$statement->closeCursor();
return $idArray;
}

//Inserts order items into OrderItems table
function addOrderItems($orderID){
    global $db;
    foreach ($_SESSION['cart'] as $item) :
        $query = 'INSERT INTO OrderItems
                  (orderID, productID, itemQuantity, itemCost)
                  VALUES
                  (:orderID, :productID, :itemQuantity, :itemCost)';
        $statement = $db->prepare($query);
        $statement->bindValue(':orderID', $orderID);
        $statement->bindValue(':productID', $item['productID']);
        $statement->bindValue(':itemQuantity', $item['quantity']);
        $statement->bindValue(':itemCost', $item['price']);
        $statement->execute();
        $statement->closeCursor();
    endforeach;
}

//retrieves all orders in the database
function getOrders() {
    global $db;
    $query = 'SELECT * FROM Orders';
    $statement = $db->prepare($query);
    $statement->execute();
    $orders = $statement->fetchAll();
    $statement->closeCursor();
    return $orders;
}

//removes order with specified ID from database
function removeOrder($orderID) {
    //first, calls function to remove order items associated with order
    removeOrderItems($orderID);

    global $db;
    $query = 'DELETE FROM Orders
              WHERE orderID = :orderID';
    $statement = $db->prepare($query);
    $statement->bindValue(':orderID', $orderID);
    $statement->execute();
    $statement->closeCursor();
}
```

```

        WHERE orderID = :orderID';
$statement = $db->prepare($query);
$statement->bindValue(':orderID', $orderID);
$statement->execute();
$statement->closeCursor();
}

//removes orderItems with specified orderID from database
function removeOrderItems($orderID) {
    global $db;
    $query = 'DELETE FROM orderItems
              WHERE orderID = :orderID';
    $statement = $db->prepare($query);
    $statement->bindValue(':orderID', $orderID);
    $statement->execute();
    $statement->closeCursor();
}
?>
```

-productFunctions.php

```

<?php
//retrieves all products associated with the given categoryID
function getProdsByCat($categoryID) {
    global $db;
    $query = 'SELECT * FROM products
              WHERE products.categoryID = :categoryID
              ORDER BY productID';
    $statement = $db->prepare($query);
    $statement->bindValue(":categoryID", $categoryID);
    $statement->execute();
    $products = $statement->fetchAll();
    $statement->closeCursor();
    return $products;
}

//retrieves all products in the database
function getProds() {
    global $db;
    $query = 'SELECT * FROM products';
    $statement = $db->prepare($query);
    $statement->execute();
    $products = $statement->fetchAll();
    $statement->closeCursor();
    return $products;
}

//inserts a new product into the database
function addProd($categoryID, $productName, $price, $imageLocation) {
    global $db;
```

```

$query = 'INSERT INTO products
    (categoryID, productName, price, imageLocation)
VALUES
    (:categoryID, :productName, :price, :imageLocation)';
$statement = $db->prepare($query);
$statement->bindValue(':categoryID', $categoryID);
$statement->bindValue(':productName', $productName);
$statement->bindValue(':price', $price);
$statement->bindValue(':imageLocation', $imageLocation);
$statement->execute();
$statement->closeCursor();
}
?>

```

-about.php

```

<!--Includes the defined header-->
<?php include '../view/custHeader.php'; ?>

<main>
    <div class="container-fluid" style="padding:.5em">
        <p></p>
        <h6>
            Hello Customer,<br><br>
            Congratulations! You have stumbled upon the greatest store known to mankind,
            Clearview Gorcery! We are the #1 rated totally-not-fake destination for all your e-commerce needs!
            <br><br>
            ...Here's some more text to fill this space out a bit.<br><br>
            -Website by Dan Imbimbo
        </h6>
    </div>
</main>

```

```

<!--Includes the defined footer-->
<?php include '../view/footer.php'; ?>

```

-products.php

```

<?php
require('../model/database.php');
require_once('../model/productFunctions.php');
require_once('../model/categoryFunctions.php');
require_once('../model/orderFunctions.php');

//retrieves the chosen action
$action = filter_input(INPUT_POST, 'action');
if ($action == NULL)
{
    $action = filter_input(INPUT_GET, 'action');
    //sets action to productList (when none is selected)
}

```

```

if ($action == NULL)
{
    $action = 'productList';
}
//selects chosen action
switch($action){
    //lists products by category
    case 'productList':
        $categoryID = filter_input(INPUT_GET, 'categoryID',
            FILTER_VALIDATE_INT);
        //sets categoryID to 1 by default (when none is selected)
        if ($categoryID == NULL)
        {
            $categoryID = 1;
        }
        $categoryName = getCatName($categoryID);
        $categories = getCats();
        $products = getProdsByCat($categoryID);
        include('productsDisplay.php');
        break;
    //adds specified item to session cart
    case 'addToCart':
        $productID = filter_input(INPUT_POST, 'productID');
        $productName = filter_input(INPUT_POST, 'productName');
        $price = filter_input(INPUT_POST, 'price');
        $imageLocation = filter_input(INPUT_POST, 'imageLocation');
        $quantity = 1;
        $item = array(
            'productID' => $productID,
            'productName' => $productName,
            'price' => $price,
            'quantity' => $quantity,
            'imageLocation' => $imageLocation
        );
        addItem($item);
        header('Location:cartDisplay.php');
        break;
}
?>

```

-productsDisplay.php

```

<!--Includes the defined header-->
<?php include '../view/custHeader.php'; ?>

```

```

<main>
    <h1>Product Inventory</h1>

```

```

    <div class="row">
```

```

<div class="col-sm-3">
<!-- lists all categories -->
<h2>Categories</h2>
<nav>
  <ul>
    <?php foreach ($categories as $category) : ?>
    <li>
      <a href="?categoryID=<?php echo $category['categoryID']; ?>">
        <?php echo $category['categoryName']; ?>
      </a>
    </li>
    <?php endforeach; ?>
  </ul>
</nav>
</div>
<div class="col-sm">
<!-- displays all products -->
<h2><?php echo $categoryName; ?></h2>
<table>
  <tr>
    <th>Picture</th>
    <th>Name</th>
    <th>Price</th>
  </tr>
  <?php foreach ($products as $product) : ?>
  <tr>
    <td class="picture"><img src=<?php echo "../".$product['imageLocation']; ?>
alt="Product Image" max-width="500px" width="35%" height="auto"></td>
    <td><?php echo $product['productName']; ?></td>
    <td><?php echo "$".$product['price']; ?></td>
    <td>
      <form action="products.php" method="post">
        <input type="hidden" name="action"
              value="addToCart">
        <input type="hidden" name="productID"
              value="<?php echo $product['productID']; ?>">
        <input type="hidden" name="productName"
              value="<?php echo $product['productName']; ?>">
        <input type="hidden" name="price"
              value="<?php echo $product['price']; ?>">
        <input type="hidden" name="imageLocation"
              value="<?php echo $product['imageLocation']; ?>">
        <input type="submit" value="Add">
      </form>
    </td>
  </tr>
  <?php endforeach; ?>
</table>
</div>

```

```

        </div>
    </main>

<!--Includes the defined footer-->
<?php include '../view/footer.php'; ?>

-cart.php
<?php
require('../model/database.php');
require_once('../model/orderFunctions.php');

//Creates or resumes session (if not already started)
if(!isset($_SESSION))
{
    session_start();
}

//retrieves the chosen action
$action = filter_input(INPUT_POST, 'action');
if ($action == NULL)
{
    $action = filter_input(INPUT_GET, 'action');
    //sets action to showCart (when none is selected)
    if ($action == NULL)
    {
        $action = 'showCart';
    }
}

//selects chosen action
switch($action){
    //displays the items in the session cart
    case 'showCart':
        include('cartDisplay.php');
        break;
    //removes specified item from session cart
    case 'remove':
        $productID = filter_input(INPUT_POST, 'productID');
        //decreases the quantity of the item in the cart by 1,
        //but if quantity is 1 then removes the item entirely
        if($_SESSION['cart'][$productID]['quantity'] > 1){
            $_SESSION['cart'][$productID]['quantity'] -= 1;
        }
        else{
            unset($_SESSION['cart'][$productID]);
        }
        include('cartDisplay.php');
        break;
    //opens checkout form
}

```



```

<h1>Cart</h1>

<div class="row">
    <div class="col-xl">
        <table>
            <tr>
                <th>Picture</th>
                <th>Name</th>
                <th>Price</th>
                <th>Quantity</th>
            </tr>
            <!--Displays items in the session cart, if the cart isn't empty-->
            <?php if(!empty($_SESSION['cart'])):
                foreach ($_SESSION['cart'] as $item) : ?>
                <tr>
                    <td class="picture"><img src=<?php echo "../".$item['imageLocation']; ?> alt="Product Image" max-width="500px" width="40%"; height="auto"></td>
                    <td><?php echo $item['productName']; ?></td>
                    <td><?php echo "$".$item['price']; ?></td>
                    <td><?php echo $quantitySpacing.$item['quantity']; ?></td>
                    <td>
                        <form action="cart.php" method="post">
                            <input type="hidden" name="action"
                                value="remove">
                            <input type="hidden" name="productID"
                                value="<?php echo $item['productID']; ?>">
                            <input type="submit" value="Remove">
                        </form>
                    </td>
                </tr>
            <?php
                endforeach;
            endif;
            ?>
            <tr>
                <td>
                    <!--Calls to function to display the total of the items in the
                    cart-->
                    <?php echo "<h6>Total: ".$total."</h6>"; ?>
                    <!--Only shows checkout button if the cart isn't empty-->
                    <?php if(!empty($_SESSION['cart'])): ?>
                        <form action="cart.php" method="post">
                            <input type="hidden" name="action"
                                value="checkout">
                            <input type="submit" value="Checkout">
                        </form>
                    <?php endif;?>
                </td>
            </tr>

```

```

        </table>
    </div>
</div>
</main>

<!--Includes the defined footer-->
<?php include '.../view/footer.php'; ?>

-checkout.php
<!--Includes the defined header-->
<?php include '.../view/custHeader.php'; ?>

<main>
    <h1>Checkout</h1>

    <div class="container-fluid">
        <form action = "cart.php" method = "post">
            <div class="form-group row">
                <label for="first" class="col-sm-2 col-form-label">First Name:</label>
                <div class="col-sm-10">
                    <input type = "text" class = "form-control" id = "first" name
="first" placeholder = "John" required>
                </div>
            </div>
            <div class="form-group row">
                <label for="last" class="col-sm-2 col-form-label">Last Name:</label>
                <div class="col-sm-10">
                    <input type = "text" class = "form-control" id = "last" name
="last" placeholder = "Smith" required>
                </div>
            </div>
            <div class="form-group">
                <strong>Address</strong>
            </div>
            <div class="form-group row">
                <label for="street" class="col-sm-2 col-form-label">Street:</label>
                <div class="col-sm-10">
                    <input type = "text" class = "form-control" id = "street" name
="street" placeholder = "123 Some Street" required>
                </div>
            </div>
            <div class="form-group row">
                <label for="city" class="col-sm-2 col-form-label">City:</label>
                <div class="col-sm-10">
                    <input type = "text" class = "form-control" id = "city" name
="city" placeholder = "City" required>
                </div>
            </div>
            <div class="form-group row">

```

```
<label for="state" class="col-sm-2 col-form-label">State:</label>
<div class="col-sm-10">
    <input list = "states" class = "form-control" id = "state" name
="state" placeholder = "AL" required>
        <datalist id = "states">
            <option value="AL">Alabama</option>
            <option value="AK">Alaska</option>
            <option value="AZ">Arizona</option>
            <option value="AR">Arkansas</option>
            <option value="CA">California</option>
            <option value="CO">Colorado</option>
            <option value="CT">Connecticut</option>
            <option value="DE">Delaware</option>
            <option value="DC">District Of Columbia</option>
            <option value="FL">Florida</option>
            <option value="GA">Georgia</option>
            <option value="HI">Hawaii</option>
            <option value="ID">Idaho</option>
            <option value="IL">Illinois</option>
            <option value="IN">Indiana</option>
            <option value="IA">Iowa</option>
            <option value="KS">Kansas</option>
            <option value="KY">Kentucky</option>
            <option value="LA">Louisiana</option>
            <option value="ME">Maine</option>
            <option value="MD">Maryland</option>
            <option value="MA">Massachusetts</option>
            <option value="MI">Michigan</option>
            <option value="MN">Minnesota</option>
            <option value="MS">Mississippi</option>
            <option value="MO">Missouri</option>
            <option value="MT">Montana</option>
            <option value="NE">Nebraska</option>
            <option value="NV">Nevada</option>
            <option value="NH">New Hampshire</option>
            <option value="NJ">New Jersey</option>
            <option value="NM">New Mexico</option>
            <option value="NY">New York</option>
            <option value="NC">North Carolina</option>
            <option value="ND">North Dakota</option>
            <option value="OH">Ohio</option>
            <option value="OK">Oklahoma</option>
            <option value="OR">Oregon</option>
            <option value="PA">Pennsylvania</option>
            <option value="RI">Rhode Island</option>
            <option value="SC">South Carolina</option>
            <option value="SD">South Dakota</option>
            <option value="TN">Tennessee</option>
            <option value="TX">Texas</option>
```

```

        <option value="UT">Utah</option>
        <option value="VT">Vermont</option>
        <option value="VA">Virginia</option>
        <option value="WA">Washington</option>
        <option value="WV">West Virginia</option>
        <option value="WI">Wisconsin</option>
        <option value="WY">Wyoming</option>
    </datalist>
</div>
</div>
<div class="form-group row">
    <label for="zip" class="col-sm-2 col-form-label">Zip Code:</label>
    <div class="col-sm-10">
        <input type = "text" class = "form-control" id = "zip" name ="zip"
placeholder = "01234" pattern ="\d{5}" required>
    </div>
</div>
<div class="form-group row">
    <label for="card" class="col-sm-2 col-form-label">Card Number:</
label>
    <div class="col-sm-10">
        <input type = "text" class = "form-control" id = "card" name
="card" placeholder = "##### ##### ##### #####" pattern = "\d{4} +\d{4} +\d{4} +\d{4}" required>
    </div>
</div>
<div class="form-group">
<input type="hidden" name="action" value="placeOrder">
    <input type="submit" value="Place Order">
</div>
</form>
</div>
</main>

```

```

<!--Includes the defined footer-->
<?php include '../view/footer.php'; ?>

```

-login.php

```

<!--Includes the defined header-->
<?php include '../view/header.php'; ?>

<?php //Creates a session
    session_start();
?>
<main>
    <div class="container-fluid">
        <h1 style="text-align:center; padding-top: .5em;">Employee Login</h1>
        <form action = "checkLogin.php" method = "post">
            <div class="form-group row">
                <label for="email" class="col-sm-2 col-form-label">Email:</label>

```

```

        <div class="col-sm-10">
            <input type="email" class="form-control" id="email"
name="email" placeholder="Enter email" required>
        </div>
    </div>
    <div class="form-group row">
        <label for="pass" class="col-sm-2 col-form-label">Password:</label>
        <div class="col-sm-10">
            <input type="password" class = "form-control" id="pass"
name="pass" placeholder="Enter password" required>
        </div>
    </div>
    <div class="form-group row">
        <label class="col-sm-2 col-form-label"></label>
        <div class="col-sm-10">
            <button type="submit" class="btn btn-primary">Login</button>
        </div>
    </div>
    <div class="form-group row">
        <label class="col-sm-2 col-form-label"></label>
        <div class="col-sm-10">
            <p>Not an employee?</p>
            <a href="../index.php" class="btn btn-success">Press to go
back</a>
        </div>
    </div>
    <!--Checks if error variable has been set in session array,
        and if so displays the defined message-->
    <?php
        if(isset($_SESSION["error"])){
            echo $_SESSION["error"];
        }
    ?>
</form>
<!--Unsets error variable in session array-->
<?php
    unset($_SESSION["error"]);
?>
</div>
</main>

<!--Includes the defined footer-->
<?php include '../view/footer.php'; ?>

-checkLogin.php
<?php
require('../model/database.php');

// Resumes session and defines error message

```

```

session_start();
$error = "<p style=\"color:red\">Invalid login. Please try again.</p>";

// Gets the entered form data
$email = $_POST['email'];
$pass = $_POST['pass'];

// Retrieves array of employees from database
$query = 'SELECT * FROM employees';
$statement = $db->prepare($query);
$statement->execute();
$employees = $statement->fetchAll();
$statement->closeCursor();

// Compares email from form with emails from database, if found
// then compares the pass from form with the password from database
$found = false;
foreach($employees as $employee){
    if($employee['email'] == $email){
        if($employee['password'] == $pass){
            $found = true;
            break;
        }
    }
}

// Checks if the email/password combination was found
if($found == true){
    // Sets name variable in session array
    $_SESSION["email"] = $email;
    header('Location:empsTable.php');
}
else{
    // Sets error variable in session array
    $_SESSION["error"] = $error;
    // Returns to index (login screen)
    header('Location:login.php');
}

?>

```

-empsTable.php

```

<?php
require('../model/database.php');
require_once('../model/empFunctions.php');

//Creates or resumes session (if not already started)
if(!isset($_SESSION))
{
    session_start();
}

```

```

}

//retrieves the chosen action
$action = filter_input(INPUT_POST, 'action');
if ($action == NULL)
{
    $action = filter_input(INPUT_GET, 'action');
    //sets action to empList (when none is selected)
    if ($action == NULL)
    {
        $action = 'empList';
    }
}

//selects chosen action
switch($action){
    //retrieves and displays current employee list
    case 'empList':
        $employees = getEmps();
        include('empsDisplay.php');
        break;
    //fires the employee specified employeeID
    case 'fireEmp':
        $empID = filter_input(INPUT_POST, 'empID');
        fireEmp($empID);

        //retrieves and displays updated employee list
        $employees = getEmps();
        include('empsDisplay.php');
        break;
    //opens new employee form
    case 'newEmp':
        include('newEmp.php');
        break;
    //retrieves variables from new employee form and hires new employee via the hireEmp function
    //then retrieves and displays updated employee list
    case 'hireEmp':
        $first = filter_input(INPUT_POST, 'first');
        $last = filter_input(INPUT_POST, 'last');
        $salary = filter_input(INPUT_POST, 'salary');
        $department = filter_input(INPUT_POST, 'dept');
        $email = filter_input(INPUT_POST, 'email');
        $password = filter_input(INPUT_POST, 'pass');

        $empName = $first." ".$last;

        //calls to add new employee to database
        hireEmp($empName,$salary,$department,$email,$password);
}

```

```

//retrieves and displays updated employee list
$employees = getEmps();
include('empsDisplay.php');
break;
}
?>

-empsDisplay.php
<!--Includes the defined header-->
<?php include '../view/empHeader.php'; ?>

<?php
//Creates or resumes session (if not already started)
if(!isset($_SESSION))
{
    session_start();
}
?>
<main>
    <h1>Employee List</h1>
    <div class="col-sm">
        <!-- displays all employees -->
        <table>
            <tr>
                <th>Employee ID</th>
                <th>Department ID</th>
                <th>Employee Name</th>
                <!-- also displays salary, email, and password if CEO is logged in
-->
                <?php if($_SESSION['email'] == "fdecker@gmail.com"): ?>
                    <th>Salary</th>
                    <th>Email</th>
                    <th>Password</th>
                <?php endif;?>
            </tr>
            <?php foreach ($employees as $employee) : ?>
                <tr>
                    <td><?php echo $employee['empID']; ?></td>
                    <td><?php echo $employee['deptID']; ?></td>
                    <td><?php echo $employee['empName']; ?></td>
                    <!-- also displays salary, email, and password if CEO is
logged in -->
                    <?php if($_SESSION['email'] ==
"fdecker@gmail.com"): ?>
                        <td><?php echo $employee['salary']; ?></td>
                        <td><?php echo $employee['email']; ?></td>
                        <td><?php echo $employee['password']; ?></td>
                    <!-- don't show fire next to CEO -->
                </tr>
            <?php endforeach; ?>
        </table>
    </div>
</main>

```

```

<?php if($employee['email'] != "fdecker@gmail.com"): ?>
    <td>
        <form action="empsTable.php"
            method="post">
            name="action" value="fireEmp">
            name="empID"
                value="$employee['empID']; ?>">
            value="Fire">
        </form>
    </td>
<?php endif;?>
<?php endif;?>
</tr>
<?php endforeach; ?>
    <!-- displays option to add a new employee if CEO is logged in -->
    <?php if($_SESSION['email'] == "fdecker@gmail.com"): ?>
        <tr>
            <td>
                <form action="empsTable.php" method="post">
                    <input type="hidden" name="action"
                        value="newEmp">
                    <input type="submit" value="Add new em-
ployee">
                </form>
            </td>
        </tr>
    <?php endif;?>
</table>
</div>
</div>
</main>

<!--Includes the defined footer-->
<?php include '../view/footer.php'; ?>

```

-newEmp.php

```

<!--Includes the defined header-->
<?php include '../view/empHeader.php'; ?>

<main>
    <h1>New Employee</h1>
    <div class="container-fluid">
        <form action = "empsTable.php" method = "post">

```

```

<div class="form-group row">
    <label for="first" class="col-sm-2 col-form-label">First Name:</label>
    <div class="col-sm-10">
        <input type = "text" class = "form-control" id = "first" name
="first" placeholder = "John" required>
    </div>
</div>
<div class="form-group row">
    <label for="last" class="col-sm-2 col-form-label">Last Name:</label>
    <div class="col-sm-10">
        <input type = "text" class = "form-control" id = "last" name
="last" placeholder = "Smith" required>
    </div>
</div>
<div class="form-group row">
    <label for="street" class="col-sm-2 col-form-label">Salary:</label>
    <div class="col-sm-10">
        <input type = "number" class = "form-control" id = "salary" name
="salary" placeholder = "20000" required>
    </div>
</div>
<div class="form-group row">
    <label for="state" class="col-sm-2 col-form-label">Department:</label>
    <div class="col-sm-10">
        <select class = "form-control" id = "dept" name ="dept" place-
holder = "2" required>
            <option value="2">Customer Service</option>
            <option value="3">Accounting</option>
        </select>
    </div>
</div>
<div class="form-group row">
    <label for="city" class="col-sm-2 col-form-label">Email:</label>
    <div class="col-sm-10">
        <input type="email" class="form-control" id="email"
name="email" placeholder="example@gmail.com" required>
    </div>
</div>
<div class="form-group row">
    <label for="pass" class="col-sm-2 col-form-label">Password:</label>
    <div class="col-sm-10">
        <input type="password" class = "form-control" id="pass"
name="pass" placeholder="password" required>
    </div>
</div>
<div class="form-group">
<input type="hidden" name="action" value="hireEmp">
    <input type="submit" value="Hire Employee">
</div>

```

```

        </form>
    </div>
</main>

<!--Includes the defined footer-->
<?php include '../view/footer.php'; ?>

-prodsTable.php
<?php
require('../model/database.php');
require_once('../model/productFunctions.php');

//Creates or resumes session (if not already started)
if(!isset($_SESSION))
{
    session_start();
}

//retrieves the chosen action
$action = filter_input(INPUT_POST, 'action');
if ($action == NULL)
{
    $action = filter_input(INPUT_GET, 'action');
    //sets action to prodList (when none is selected)
    if ($action == NULL)
    {
        $action = 'prodList';
    }
}

//selects chosen action
switch($action){
    //retrieves and displays current product list
    case 'prodList':
        $products = getProds();
        include('prodsDisplay.php');
        break;
    //removes the product with the specified productID
    case 'removeProd':
        $productID = filter_input(INPUT_POST, 'productID');
        removeProd($productID);

    //retrieves and displays updated product list
        $products = getProds();
        include('prodsDisplay.php');
        break;
    //opens new product form
    case 'newProd':
        include('newProd.php');
}

```

```

        break;
//retrieves variables from new product form and adds new product via the addProd function
//then retrieves and displays updated product list
case 'addProd':
    $categoryID = filter_input(INPUT_POST, 'catID');
    $productName = filter_input(INPUT_POST, 'prodName');
    $price = filter_input(INPUT_POST, 'price');
    $imageLocation = filter_input(INPUT_POST, 'imageLoc');

    //calls to add new product to database
    addProd($categoryID, $productName, $price, $imageLocation);

    //retrieves and displays updated product list
    $products = getProds();
    include('prodsDisplay.php');
    break;
}
?>

```

-prodsDisplay.php

```

<!--Includes the defined header-->
<?php include '../view/empHeader.php'; ?>

<?php
//Creates or resumes session (if not already started)
if(!isset($_SESSION))
{
    session_start();
}
?>
<main>
    <h1>Product List</h1>
    <div class="col-sm">
        <!-- displays all products -->
        <table>
            <tr>
                <th>Product ID</th>
                <th>Category ID</th>
                <th>Product Name</th>
                <th>Price</th>
                <th>Image (Location)</th>
            </tr>
            <?php foreach ($products as $product) : ?>
            <tr>
                <td><?php echo $product['productID']; ?></td>
                <td><?php echo $product['categoryID']; ?></td>
                    <td><?php echo $product['productName']; ?></td>
                    <td><?php echo "$".$product['price']; ?></td>
                    <td><?php echo $product['imageLocation']; ?></td>
            </tr>
        <?php endforeach; ?>
    </div>
</main>

```

```

        </tr>
    <?php endforeach; ?>
        <!-- displays option to add a new product if CEO is logged in -->
        <?php if($_SESSION['email'] == "fdecker@gmail.com"): ?>
            <tr>
                <td>
                    <form action="prodsTable.php" method="post">
                        <input type="hidden" name="action"
value="newProd">
                        <input type="submit" value="Add new
product">
                    </form>
                </td>
            </tr>
        <?php endif;?>
    </table>
</div>
</div>
</main>

<!--Includes the defined footer--&gt;
&lt;?php include '../view/footer.php'; ?&gt;</pre>

```

-newProd.php

```
<!--Includes the defined header-->
<?php include '../view/empHeader.php'; ?>
```

```

<main>
    <h1>New Product</h1>

    <div class="container-fluid">
        <form action = "prodsTable.php" method = "post">
            <div class="form-group row">
                <label for="state" class="col-sm-2 col-form-label">Category:</label>
                <div class="col-sm-10">
                    <select class = "form-control" id = "catID" name ="catID" place-
holder = "1" required>
                        <option value="1">Produce</option>
                        <option value="2">Beverages</option>
                        <option value="3">Tools</option>
                    </select>
                </div>
            </div>
            <div class="form-group row">
                <label for="first" class="col-sm-2 col-form-label">Product Name:</la-
bel>
                <div class="col-sm-10">
                    <input type = "text" class = "form-control" id = "prodName" name
="prodName" placeholder = "Placeholder" required>
                </div>
            </div>
        </form>
    </div>
```

```

                </div>
            </div>
            <div class="form-group row">
                <label for="last" class="col-sm-2 col-form-label">Price:</label>
                <div class="col-sm-10">
                    <input type = "number" class = "form-control" id = "price" name
="price" placeholder = "9.99" step="0.01" required>
                </div>
            </div>
            <div class="form-group row">
                <label for="street" class="col-sm-2 col-form-label">Image Location:</la-
bel>
                <div class="col-sm-10">
                    <input type = "text" class = "form-control" id = "imageLoc" name
="imageLoc" placeholder = "images/example.jpg" required>
                </div>
            </div>
            <div class="form-group">
                <input type="hidden" name="action" value="addProd">
                    <input type="submit" value="Add Product">
                </div>
            </form>
        </div>
    </main>

<!--Includes the defined footer-->
<?php include '../view/footer.php'; ?>
```

-ordersTable.php

```

<?php
require('../model/database.php');
require_once('../model/orderFunctions.php');

//Creates or resumes session (if not already started)
if(!isset($_SESSION))
{
    session_start();
}

//retrieves the chosen action
$action = filter_input(INPUT_POST, 'action');
if ($action == NULL)
{
    $action = filter_input(INPUT_GET, 'action');
        //sets action to orderList (when none is selected)
    if ($action == NULL)
    {
        $action = 'orderList';
    }
}
```

```

}

//selects chosen action
switch($action){
    //retrieves and displays current order list
    case 'orderList':
        $orders = getOrders();
        include('ordersDisplay.php');
        break;
    //removes the order with the specified orderID
    case 'removeOrder':
        $orderID = filter_input(INPUT_POST, 'orderID');
        removeOrder($orderID);

    //retrieves and displays updated order list
    $orders = getOrders();
    include('ordersDisplay.php');
    break;
}
?>

```

-ordersDisplay.php

```

<!--Includes the defined header-->
<?php include '../view/empHeader.php'; ?>

<?php
//Creates or resumes session (if not already started)
if(!isset($_SESSION))
{
    session_start();
}
?>
<main>
    <h1>Order List</h1>
    <div class="col-sm">
        <!-- displays all orders -->
        <table>
            <tr>
                <th>Order ID</th>
                <th>Order Date</th>
                <th>Order Total</th>
                <th>Customer Name</th>
                <th>Customer Address</th>
                <th>Customer ZIP Code</th>
            </tr>
            <?php foreach ($orders as $order) : ?>
            <tr>
                <td><?php echo $order['orderID']; ?></td>
                <td><?php echo $order['orderDate']; ?></td>

```

```

        <td><?php echo $order['orderTotal']; ?></td>
<td><?php echo $order['custName']; ?></td>
<td><?php echo $order['custAddress']; ?></td>
        <td><?php echo $order['custZip']; ?></td>
        <!-- displays option to remove order if CEO is logged in --
>
<?php if($_SESSION['email'] ==
"fdecker@gmail.com"): ?>
        <td>
                <form action="ordersTable.php"
method="post">
                        <input type="hidden" name="action"
value="removeOrder">
                        <input type="hidden" name="or-
derID"
                                value="<?php echo
$order['orderID']; ?>">
                        <input type="submit" value="Re-
move">
                </form>
        </td>
<?php endif;?>
        </tr>
        <?php endforeach; ?>
    </table>
</div>
</div>
</main>

<!--Includes the defined footer-->
<?php include '../view/footer.php'; ?>
```

SQL script:

```
-- create and select the database
drop database if exists clearviewDatabase;
create database clearviewDatabase;
use clearviewDatabase;

create table Categories(
    categoryID int NOT NULL AUTO_INCREMENT,
    categoryName varchar(255) NOT NULL,
    PRIMARY KEY(categoryID)
);
create table Products(
    productID int NOT NULL AUTO_INCREMENT,
    categoryID int NOT NULL,
    productName varchar(255) NOT NULL,
    price decimal(10,2) NOT NULL,
    imageLocation varchar(255) NOT NULL,
    PRIMARY KEY(productID),
    FOREIGN KEY(categoryID) REFERENCES Categories(categoryID)
);
create table Departments(
    deptID int NOT NULL AUTO_INCREMENT,
    deptName varchar(255) NOT NULL,
    PRIMARY KEY(deptID)
);
create table Employees(
    empID int NOT NULL AUTO_INCREMENT,
    deptID int NOT NULL,
    empName varchar(255) NOT NULL,
    salary decimal(10,2) NOT NULL,
    email varchar(255) NOT NULL,
    password varchar(255) NOT NULL,
    PRIMARY KEY(empID),
    FOREIGN KEY(deptID) REFERENCES Departments(deptID)
);
create table Orders(
    orderID int NOT NULL AUTO_INCREMENT,
    orderTotal decimal(10,2),
    orderDate datetime NOT NULL,
    custName varchar(255) NOT NULL,
    custAddress varchar(255) NOT NULL,
    custZip varchar(255) NOT NULL,
    custCard varchar(255) NOT NULL,
    PRIMARY KEY(orderID)
);
create table OrderItems(
    orderID int NOT NULL,
    productID int NOT NULL,
    itemQuantity int NOT NULL,
```

```

itemCost decimal(10,2) NOT NULL,
CONSTRAINT oiPK PRIMARY KEY(orderID, productID),
FOREIGN KEY(orderID) REFERENCES Orders(orderID),
FOREIGN KEY(productID) REFERENCES Products(productID)
);

-- populate the database
insert into Categories(categoryName) VALUES
('Produce'),
('Beverages'),
('Tools');

insert into Products(categoryID,productName,price,imageLocation) VALUES
(1,'Honeycrisp Apple',1.34,'images/apple.jpg'),
(1,'Navel Orange',0.88,'images/orange.jpg'),
(2,'Alpine Spring Water, 1 Gal',0.98,'images/water.jpg'),
(2,'Dairy Pure Whole Milk, 1 Gal',4.42,'images/milk.jpg'),
(3,'Claw Hammer, 16oz',6.95,'images/hammer.jpg'),
(3,'Reversible Screwdriver, 6-in-1',7.95,'images/screwdriver.jpg');

insert into Departments(deptName) VALUES
('CEO'),
('Customer Service'),
('Accounting');

insert into Employees(deptID,empName,salary,email,password) VALUES
(1,'Francis Decker',55000,'fdecker@gmail.com','bossman'),
(2,'Jimbo Wickens',25000,'jwickens@gmail.com','ezpass'),
(3,'Melissa Mackey',42000,'mmackey@gmail.com','mathguru');

insert into Orders(orderDate,custName,custAddress,custZip,custCard) VALUES
('2021-04-28 23:59:59','Nigel Poedep','123 Easy Street, Nowhere, NJ','01234','0123 4567 8901 2345');

insert into OrderItems(orderID,productID,itemQuantity,itemCost) VALUES
(1,1,2,(SELECT price FROM Products WHERE productID = 1)),
(1,3,1,(SELECT price FROM Products WHERE productID = 3)),
(1,5,1,(SELECT price FROM Products WHERE productID = 5));

UPDATE Orders SET orderTotal = (SELECT SUM(itemQuantity*itemCost) FROM OrderItems
WHERE orderID = 1) WHERE orderID = 1;

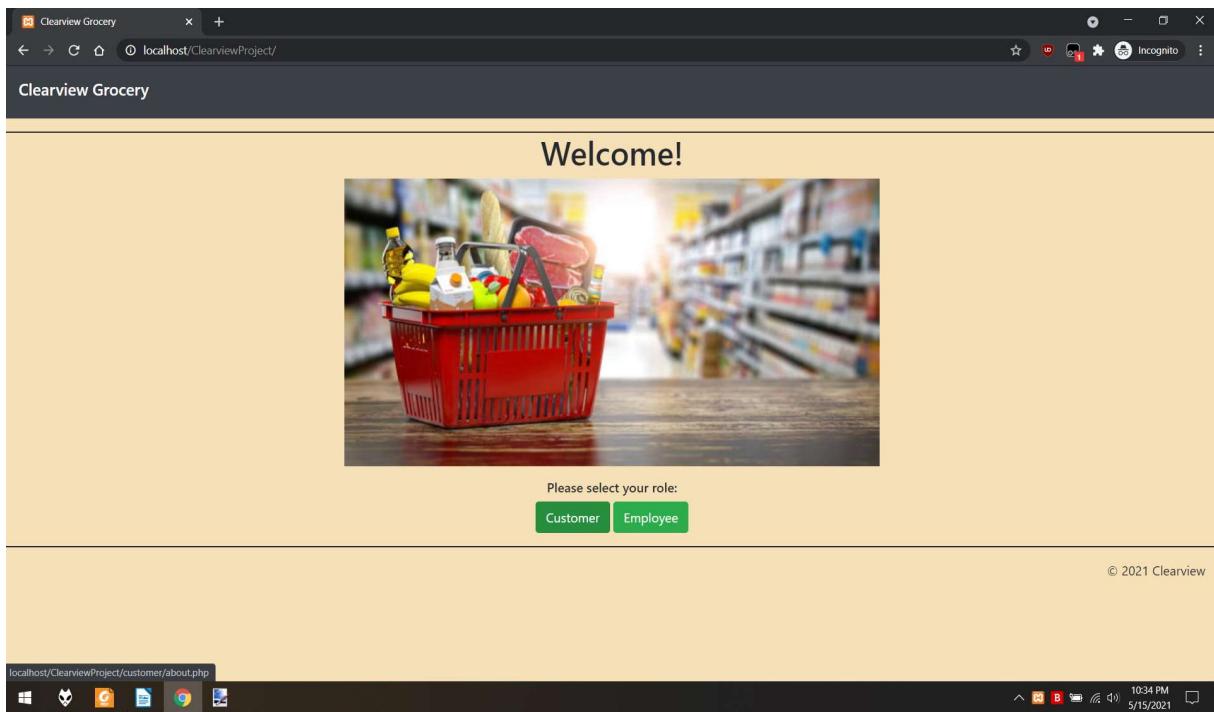
-- Create a user named clearview with password as clearviewpass
GRANT SELECT, INSERT, DELETE, UPDATE
ON clearviewDatabase.*  

TO clearview@localhost
IDENTIFIED BY 'clearviewpass';

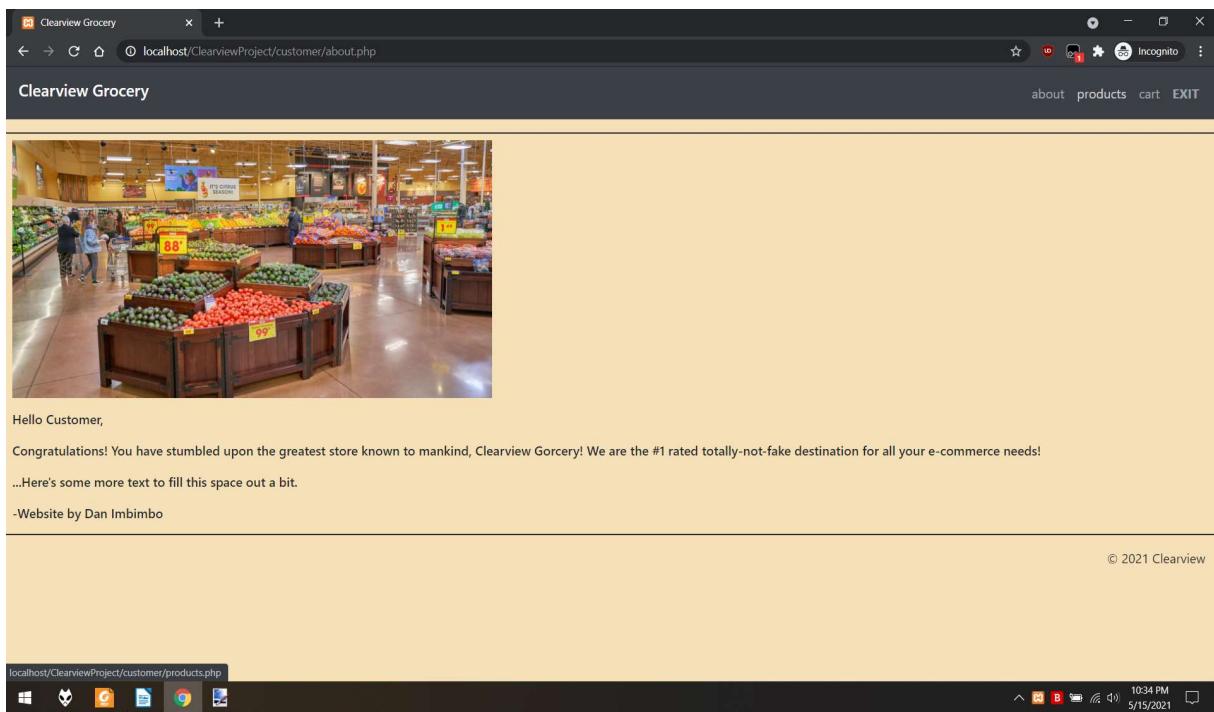
```

Test run:

Initial website page which lets user choose between user or employee views:



About page and using the navigation bar to go to products:



Products page showing the Produce category:

Screenshot of a web browser displaying the 'Produce' category page from 'Clearview Grocery'. The page title is 'Product Inventory' and the category is 'Produce'. On the left, there is a sidebar with a 'Categories' section containing links to 'Produce', 'Beverages', and 'Tools'. The main content area shows two products: 'Honeycrisp Apple' and 'Navel Orange', each with a picture, name, price (\$1.34 and \$0.88 respectively), and an 'Add' button.

Picture	Name	Price	Add
	Honeycrisp Apple	\$1.34	<input type="button" value="Add"/>
	Navel Orange	\$0.88	<input type="button" value="Add"/>

© 2021 Clearview

localhost/ClearviewProject/customer/products.php?categoryID=2

Products page showing the Beverages category:

Screenshot of a web browser displaying the 'Beverages' category page from 'Clearview Grocery'. The page title is 'Product Inventory' and the category is 'Beverages'. On the left, there is a sidebar with a 'Categories' section containing links to 'Produce', 'Beverages', and 'Tools'. The main content area shows two products: 'Alpine Spring Water, 1 Gal' and 'Dairy Pure Whole Milk, 1 Gal', each with a picture, name, price (\$0.98 and \$4.42 respectively), and an 'Add' button.

Picture	Name	Price	Add
	Alpine Spring Water, 1 Gal	\$0.98	<input type="button" value="Add"/>
	Dairy Pure Whole Milk, 1 Gal	\$4.42	<input type="button" value="Add"/>

© 2021 Clearview

localhost/ClearviewProject/customer/products.php?categoryID=3

Products page showing the Tools category and navigating to the cart:

Clearview Grocery

localhost/ClearviewProject/customer/products.php?categoryID=3

about products cart EXIT

Product Inventory

Categories

- Produce
- Beverages
- Tools

Tools

Picture	Name	Price
	Claw Hammer, 16oz	\$6.95
	Reversible Screwdriver, 6-in-1	\$7.95

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localhost/ClearviewProject/customer/cart.php

Windows taskbar: 10:37 PM, 5/15/2021

Cart page showing what an empty cart looks like and navigating back to products:

Clearview Grocery

localhost/ClearviewProject/customer/cart.php

about products cart EXIT

Cart

Picture	Name	Price	Quantity
Total: \$0.00			

© 2021 Clearview

localhost/ClearviewProject/customer/products.php

Windows taskbar: 10:37 PM, 5/15/2021

Products page while adding a Honeycrisp Apple to the cart:

The screenshot shows a web browser window for 'Clearview Grocery' at the URL localhost/ClearviewProject/customer/products.php. The page title is 'Product Inventory'. On the left, there's a sidebar titled 'Categories' with links for 'Produce', 'Beverages', and 'Tools'. The main content area is titled 'Produce' and contains two items: a Honeycrisp Apple and a Navel Orange. Each item has a 'Picture' (an image of the fruit), 'Name' (the fruit name), 'Price' (\$1.34 for the apple, \$0.88 for the orange), and an 'Add' button. The status bar at the bottom shows system icons and the date/time: 10:38 PM 5/15/2021.

Cart page showing the added item:

The screenshot shows a web browser window for 'Clearview Grocery' at the URL localhost/ClearviewProject/customer/cartDisplay.php. The page title is 'Cart'. It displays a single item: a Honeycrisp Apple with a price of \$1.34 and a quantity of 1. There is a 'Remove' button next to the item. Below the item, it says 'Total: \$1.34' and has a 'Checkout' button. The status bar at the bottom shows system icons and the date/time: 10:38 PM 5/15/2021.

Cart page after adding another apple and a hammer, and about to remove 1 apple:

The screenshot shows a web browser window for "Clearview Grocery" at the URL localhost/ClearviewProject/customer/cartDisplay.php. The page title is "Cart". The table displays two items:

Picture	Name	Price	Quantity	Action
	Honeycrisp Apple	\$1.34	2	Remove
	Claw Hammer, 16oz	\$6.95	1	Remove

Total: \$9.63

[Checkout](#)

At the bottom of the browser window, the status bar shows the date and time: © 2021 Clearview 10:39 PM 5/15/2021.

Cart page after having removed 1 apple, and about to checkout:

The screenshot shows a web browser window for "Clearview Grocery" at the URL localhost/ClearviewProject/customer/cart.php. The page title is "Cart". The table displays one item:

Picture	Name	Price	Quantity	Action
	Honeycrisp Apple	\$1.34	1	Remove

Total: \$8.29

[Checkout](#)

At the bottom of the browser window, the status bar shows the date and time: © 2021 Clearview 10:39 PM 5/15/2021.

Checkout form with input pattern for zip code being only 5 digits long:

The screenshot shows a checkout page for "Clearview Grocery". The form fields are as follows:

- First Name: John
- Last Name: Smith
- Address:
 - Street: 123 Testville
 - City: Somewhere City
 - State: AL
- Zip Code: 00000 (highlighted in blue)
- Card Number: #### #### #### #### (highlighted in blue with a tooltip: "Please match the requested format.")

A "Place Order" button is at the bottom left, and a copyright notice "© 2021 Clearview" is at the bottom right.

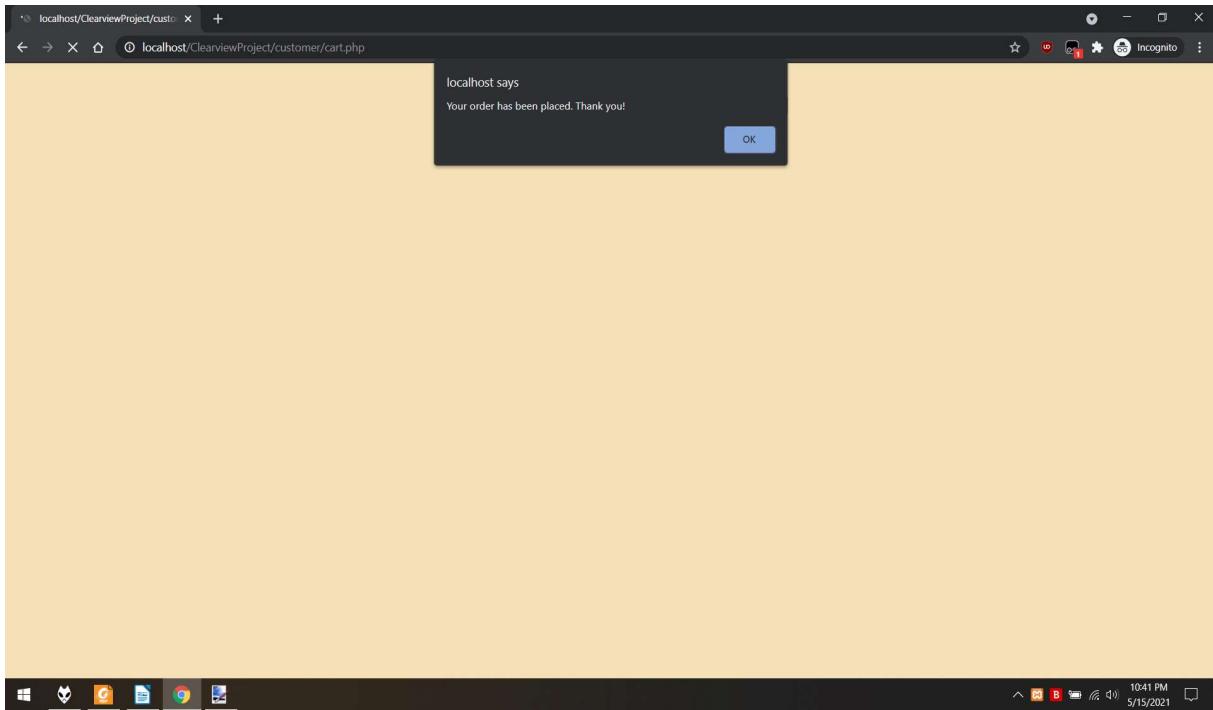
Checkout form with input pattern for card requiring four sets of four digits:

The screenshot shows a checkout page for "Clearview Grocery". The form fields are as follows:

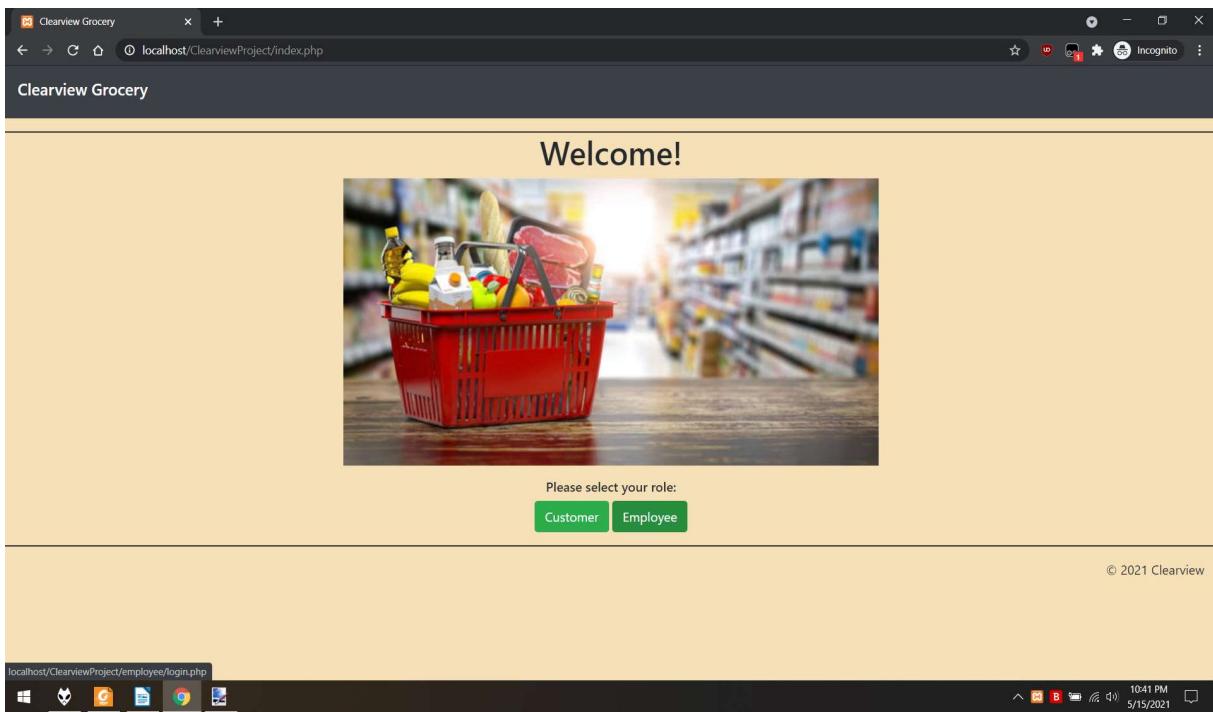
- First Name: John
- Last Name: Smith
- Address:
 - Street: 123 Testville
 - City: Somewhere City
 - State: AL
- Zip Code: 00000
- Card Number: 1 (highlighted in blue with a tooltip: "Please match the requested format.")

A "Place Order" button is at the bottom left, and a copyright notice "© 2021 Clearview" is at the bottom right.

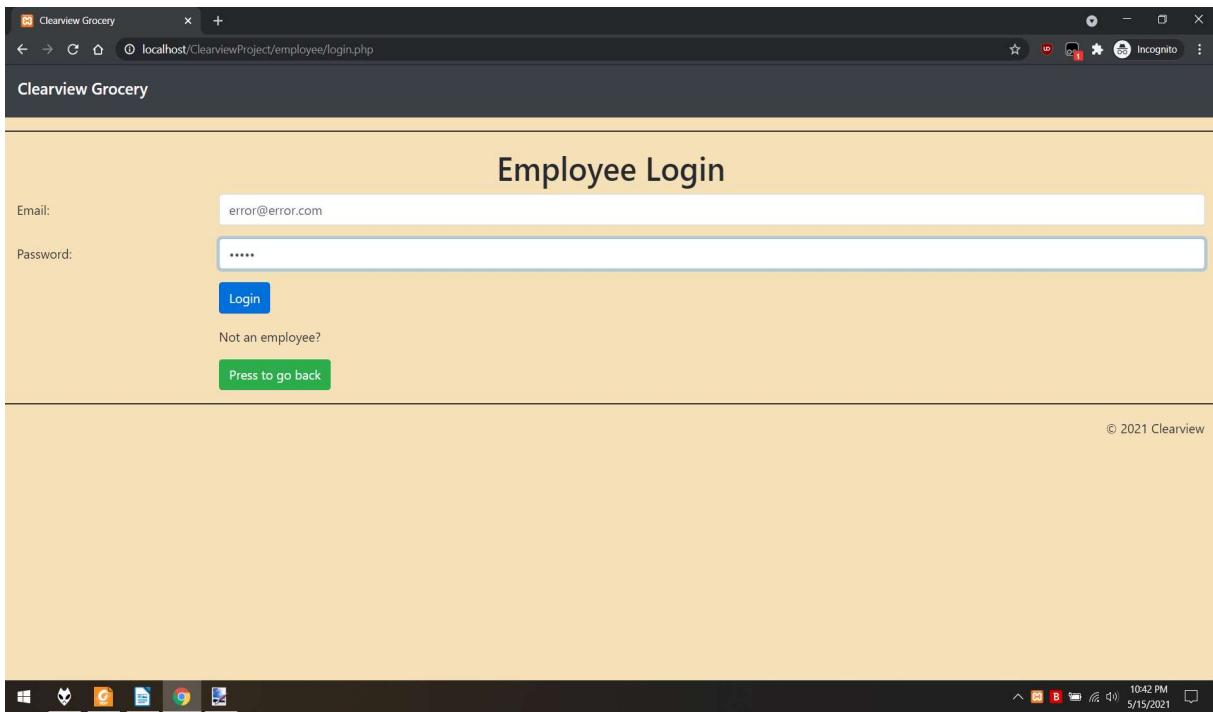
Checkout form after having placed the order with correct input:



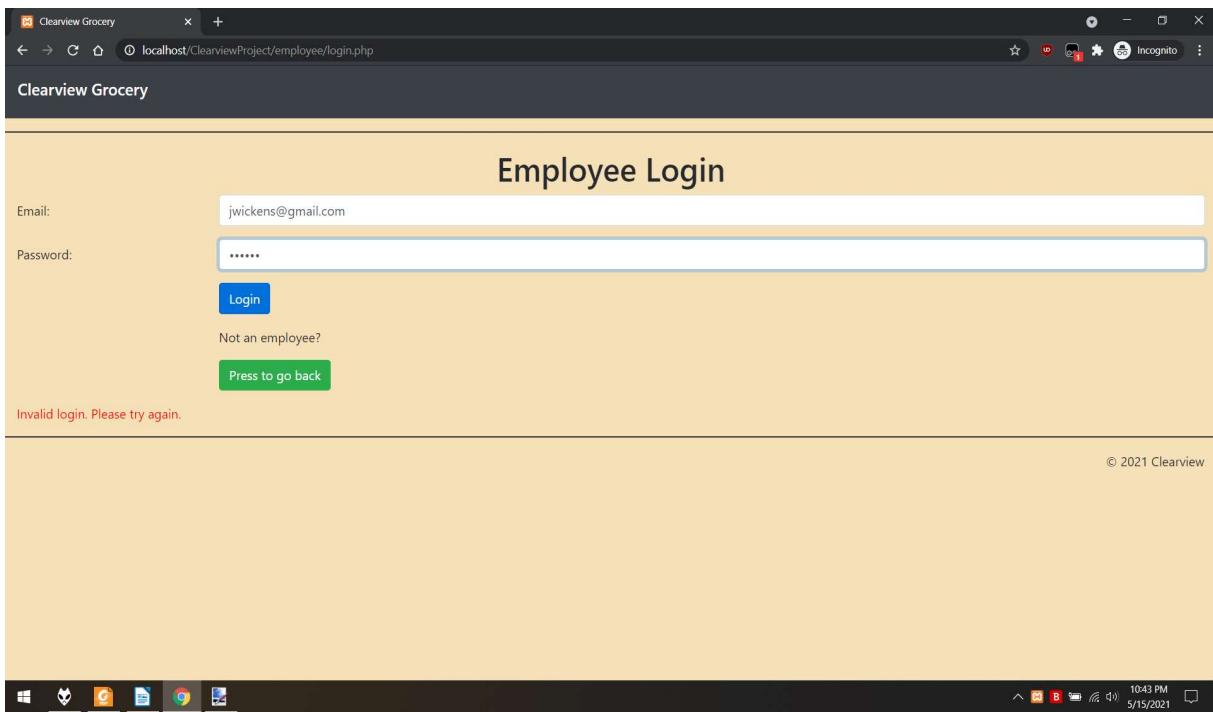
Returned to initial page with the session variables being deleted and a new session being created:



Employee login page with incorrect email/password:



Invalid login message from incorrect info, and about to login with correct details:



Successful login displaying the employee list for normal employees and about to navigate to Products:

The screenshot shows a web browser window titled "Clearview Grocery" with the URL "localhost/ClearviewProject/employee/empTable.php". The page header includes links for "Employees", "Products", "Orders", and "LOG OUT". The main content is titled "Employee List" and displays a table with three rows of employee data:

Employee ID	Department ID	Employee Name
1	1	Francis Decker
2	2	Jimbo Wickens
3	3	Melissa Mackey

At the bottom right of the page, there is a copyright notice: "© 2021 Clearview". The browser's address bar shows "localhost/ClearviewProject/employee/prodsTable.php". The system tray at the bottom indicates the date as 5/15/2021 and the time as 10:44 PM.

Product list displayed for normal employees and about to navigate to Orders:

The screenshot shows a web browser window titled "Clearview Grocery" with the URL "localhost/ClearviewProject/employee/prodsTable.php". The page header includes links for "Employees", "Products", "Orders", and "LOG OUT". The main content is titled "Product List" and displays a table with six rows of product data:

Product ID	Category ID	Product Name	Price	Image (Location)
1	1	Honeycrisp Apple	\$1.34	images/apple.jpg
2	1	Navel Orange	\$0.88	images/orange.jpg
3	2	Alpine Spring Water, 1 Gal	\$0.98	images/water.jpg
4	2	Dairy Pure Whole Milk, 1 Gal	\$4.42	images/milk.jpg
5	3	Claw Hammer, 16oz	\$6.95	images/hammer.jpg
6	3	Reversible Screwdriver, 6-in-1	\$7.95	images/screwdriver.jpg

At the bottom right of the page, there is a copyright notice: "© 2021 Clearview". The browser's address bar shows "localhost/ClearviewProject/employee/ordersTable.php". The system tray at the bottom indicates the date as 5/15/2021 and the time as 10:45 PM.

Order list displayed for normal employees and about to log out:

Order ID	Order Date	Order Total	Customer Name	Customer Address	Customer ZIP Code
1	2021-04-28 23:59:59	10.61	Nigel Poedep	123 Easy Street, Nowhere, NJ	01234
2	2021-05-15 22:41:37	8.29	John Smith	123 Testville, Somewhere City, AL	00000

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Logging out having with the session variables being deleted and a new session being created:

Welcome!

Please select your role:

Customer Employee

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Employee list displayed after now logging in as the CEO and about to fire Jimbo Wickens:

Employee ID	Department ID	Employee Name	Salary	Email	Password
1	1	Francis Decker	55000.00	fdecker@gmail.com	bossman
2	2	Jimbo Wickens	25000.00	jwickens@gmail.com	ezpass
3	3	Melissa Mackey	42000.00	mmackey@gmail.com	mathguru

Add new employee

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Employee list after Jimbo Wickens has been fired and a new employee is about to be hired:

Employee ID	Department ID	Employee Name	Salary	Email	Password
1	1	Francis Decker	55000.00	fdecker@gmail.com	bossman
3	3	Melissa Mackey	42000.00	mmackey@gmail.com	mathguru

Add new employee

© 2021 Clearview

New employee form with Mitchell McGee about to be hired:

Clearview Grocery

Employees Products Orders LOG OUT

New Employee

First Name: Mitchell

Last Name: McGee

Salary: 25000

Department: Customer Service

Email: mmcgee@gmail.com

Password: *****

Hire Employee

© 2021 Clearview

New employee Mitchell McGee shown in employee list and about to navigate to Products:

Clearview Grocery

Employees Products Orders LOG OUT

Employee List

Employee ID	Department ID	Employee Name	Salary	Email	Password
1	1	Francis Decker	55000.00	fdecker@gmail.com	bossman
3	3	Melissa Mackey	42000.00	mmackey@gmail.com	mathguru
4	2	Mitchell McGee	25000.00	mmcgee@gmail.com	password

Add new employee

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localhost/ClearviewProject/employee/prodsTable.php

Product list displayed for CEO with ability to add new products:

Product ID	Category ID	Product Name	Price	Image (Location)
1	1	Honeycrisp Apple	\$1.34	images/apple.jpg
2	1	Navel Orange	\$0.88	images/orange.jpg
3	2	Alpine Spring Water, 1 Gal	\$0.98	images/water.jpg
4	2	Dairy Pure Whole Milk, 1 Gal	\$4.42	images/milk.jpg
5	3	Claw Hammer, 16oz	\$6.95	images/hammer.jpg
6	3	Reversible Screwdriver, 6-in-1	\$7.95	images/screwdriver.jpg

Add new product

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New product form with Adjustable Wrench about to be added to product list:

New Product

Category: Tools

Product Name: Adjustable Wrench, 8in

Price: 10.50

Image Location: images/wrench.jpg

Add Product

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New product form with a Pear about to be added to product list:

Clearview Grocery

Employees Products Orders LOG OUT

New Product

Category: Produce

Product Name: Pear

Price: 1.02

Image Location: images/pear.jpg

Add Product

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Product List displayed with both new products and about to navigate to Orders:

Clearview Grocery

Employees Products Orders LOG OUT

Product List

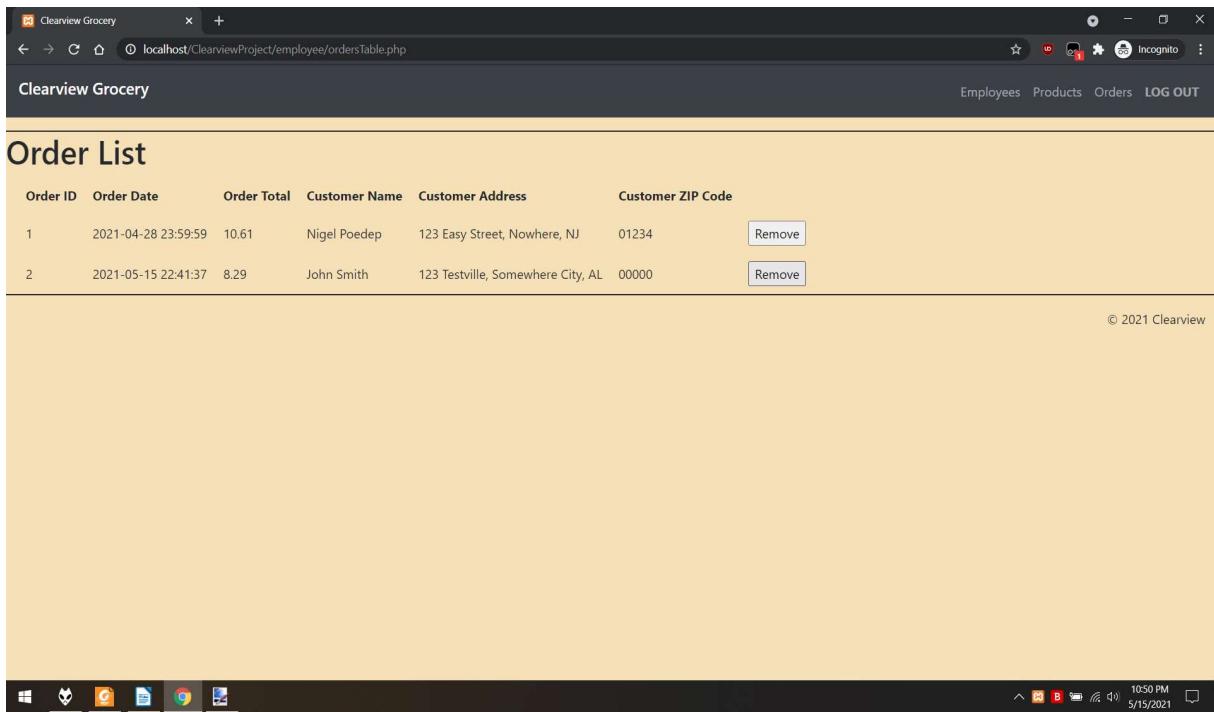
Product ID	Category ID	Product Name	Price	Image (Location)
1	1	Honeycrisp Apple	\$1.34	images/apple.jpg
2	1	Navel Orange	\$0.88	images/orange.jpg
3	2	Alpine Spring Water, 1 Gal	\$0.98	images/water.jpg
4	2	Dairy Pure Whole Milk, 1 Gal	\$4.42	images/milk.jpg
5	3	Claw Hammer, 16oz	\$6.95	images/hammer.jpg
6	3	Reversible Screwdriver, 6-in-1	\$7.95	images/screwdriver.jpg
7	3	Adjustable Wrench, 8in	\$10.50	images/wrench.jpg
8	1	Pear	\$1.02	images/pear.jpg

Add new product

© 2021 Clearview

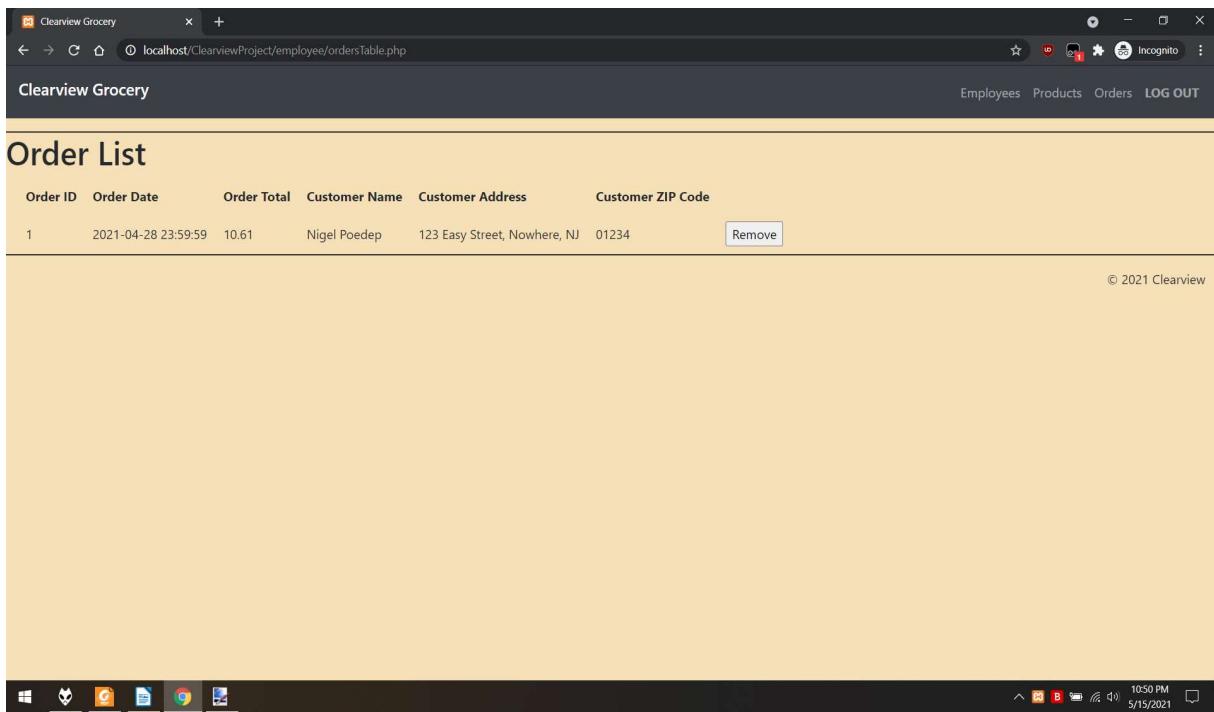
localhost/ClearviewProject/employee/ordersTable.php

Order List displayed for CEO with ability to remove order and about to remove order placed earlier:



Order ID	Order Date	Order Total	Customer Name	Customer Address	Customer ZIP Code	
1	2021-04-28 23:59:59	10.61	Nigel Poedep	123 Easy Street, Nowhere, NJ	01234	<button>Remove</button>
2	2021-05-15 22:41:37	8.29	John Smith	123 Testville, Somewhere City, AL	00000	<button>Remove</button>

Order List after having deleted the earlier placed order:



Order ID	Order Date	Order Total	Customer Name	Customer Address	Customer ZIP Code	
1	2021-04-28 23:59:59	10.61	Nigel Poedep	123 Easy Street, Nowhere, NJ	01234	<button>Remove</button>

Pear now displayed in Customer view of product list:

Cleavview Grocery +
localhost/ClearviewProject/customer/products.php

Categories

- Produce
- Beverages
- Tools

Produce

Picture	Name	Price	Add
	Honeycrisp Apple	\$1.34	<input type="button" value="Add"/>
	Navel Orange	\$0.88	<input type="button" value="Add"/>
	Pear	\$1.02	<input type="button" value="Add"/>

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Windows Taskbar: File Explorer, File History, Task View, Google Chrome, Microsoft Edge, File Manager, Taskbar icons, Date: 5/15/2021, Time: 10:51 PM

Wrench now displayed in Customer view of product list:

Cleavview Grocery +
localhost/ClearviewProject/customer/products.php?categoryId=3

Categories

- Produce
- Beverages
- Tools

Tools

Picture	Name	Price	Add
	Claw Hammer, 16oz	\$6.95	<input type="button" value="Add"/>
	Reversible Screwdriver, 6-in-1	\$7.95	<input type="button" value="Add"/>
	Adjustable Wrench, 8in	\$10.50	<input type="button" value="Add"/>

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Windows Taskbar: File Explorer, File History, Task View, Google Chrome, Microsoft Edge, File Manager, Taskbar icons, Date: 5/15/2021, Time: 10:51 PM

Link to YouTube demonstration:

<https://www.youtube.com/watch?v=nRPi0Pfu0Yc>