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Assignment 4 - Customer side of Mobile shopping website with CodeIgniter MVC and prevent SQL Injection and XSS attack

IMPORTANT NOTE: I have tested everything on latest **Chrome** Browser. Please make sure to test everything on **Chrome**.

- **Accessing the website**

To access the Administrator side of website go to the following URL
<http://cs-server.usc.edu:2390/MobileCart/Administrator/login/login.php>

Login credentials are

1. Administrator – Username: admin, Password: admin
2. Employee – Username: employee, Password: employee
3. Manager – Username: manager, Password: manager

To access the Customer side of the website go to the following URL
<http://cs-server.usc.edu:2390/MobileCart/Customer/CodeIgniter/assets/login.html>

Login credential for one of the registered customer is as follows

1. **Username:** Tom, **Password:** Tom

- **Session timeout** is 5 minutes.
- **Customer's cart** is stored in my database.

- **FEATURES**

1. The website is responsive now. You can resize the browser and the content of the website will change accordingly. When the size is too small to fit the navigation and categories, there are two buttons on the top bar to navigate between different tabs and filter the search results according to categories.
2. Customer can sign up for the website. A customer cannot sign up with an existing username i.e. the website prohibits the customer to use same username more than once to sign up. After signup you have to login again

3. On home page, customer can view the sale products on top row. Later he can filter the results based on categories (brands and operating system) and search by mobile name as well.
4. Clicking on the website icon takes the customer to the homepage where all mobile tiles are displayed.
5. On clicking on a particular mobile tile, customer can view the mobile details, including discounted price and features.
6. Also on mobile details page, there is a section to show what other people bought with that particular mobile in their orders. This is done by keeping track of other items bought with a particular item in a particular order.
7. On mobile details page customer can add the mobile to cart along with the quantity.
8. Customer can view and edit his profile from My Account Tab. To change password customer first needs to provide his older password. If older password is valid, only then he can change the password. Again customer cannot update username if that particular username is not available.
9. My orders tab shows the previous orders of a particular customer. Clicking on the order row gives further details about the order items in that particular order.
10. My cart tab shows the items that the customer has added to the cart, the grand total of the items in the cart. Customer can increase the quantity of a particular item. He can remove an item from the cart or he can delete his entire cart as well.
11. Customer can also place an order from the my cart tab.
12. Besides my cart tab, the count of the items in the cart are shown (Note: The cart count is according to the total of the quantities of each item in the cart)
13. jQuery UI is used in the project to use components like accordion.

- **Folder assets inside CodeIgniter directory has all the js,css, html and images in their respective folders.**

- **FILES DETAILS**

Assets files

1. **customer.css** - Responsive CSS for the whole website
2. **login.css** - Responsive CSS for login page
3. **login.html** - HTML that displays login and sign up page
4. **customerHome.html** - HTML that has the basic structure for the whole website
5. **login.js** - All javascript to handle login and sign up for a customer
6. **customerHome.js** - Javascript related to home tab after customer is logged in. Displaying categories and mobile tiles
7. **customerAccount.js** - Javascript related to customer account. Displaying customer his profile details and provide ways to update that information.
8. **customerOrders.js** - Javascript related to displaying previous orders of a customer
9. **customerCart.js** - Javascript to display/edit/delete items in the cart of a customer and provide a way to place an order

10. productDetails.js - Javascript to display details of a particular product, suggestions about other product and provide way to add items to the cart

- **Models, Controllers, Views folders inside CodeIgniter/applications directory has all the models, controllers and view files**

Models : Models handle the database connectivity with different tables

1. **Login_model.php** - Database connectivity to get user with given login credentials
2. **Customer_model.php** - Database connectivity to handle customer functionality
3. **Product_model.php** - Database connectivity to handle product functionality
4. **Categories_model.php** - Database connectivity to handle retrieval of category list
5. **Cart_model.php** - Database connectivity to handle cart functionality
6. **Order_model.php** - Database connectivity to handle order functionality

Controller: The controller handle all the ajax requests

1. **Auth.php** - Controller to handle authentication requests from front end(login/logout)
2. **Customer.php** - Controller to handle customer manipulation related requests from front end
3. **Product.php** - Controller to handle retrieval of products/ filtering of products from front end
4. **Categories.php** - Controller to handle retrieval of categories list from front end
5. **Cart.php** - Controller to handle add/update/display cart requests from front end
6. **Order.php** - Controller to add order/orderItems requests from front end

Views: The views generate JSON and echo them back to client

1. **customerDetails_view.php** - It creates and echoes customer details
2. **error_view.php** - It echos error message
3. **getAllBrands_view.php** - It creates and echoes brand list
4. **getAllSystems_view.php** - It creates and echoes OS list
5. **getCartValue_view.php** - It echos cart count

6. **getProducts_view.php** - It echoes product list
7. **orderDetails_view.php** - It echoes order details view list
8. **productDetails_view.php** - It echoes a product details list
9. **productSuggestion_view.php** - It echoes product suggestion list
10. **saleProductDetails_view.php** - It echoes sale product details
11. **showCart_view.php** - It echoes cart items list

Libraries

1. **Utilities.php** - It has method that checks the session timeout, inhimits user from retrieving data after logout and redirects to login page appropriately. It also has a method that sanitizes the post parameters (trim / encode to avoid XSS)