**Montclair State University**

**Check Point 2 Document - Final Project**

**By MSU Developers - Team Circuit**

Course: CSIT-337-01 Internet Computing

Instructor: Professor John Jenq

Date: April 21, 2024

**Team Members of MSU Developers(Circuit)**

Leader/Programmer - Xavier Warner

Assistant/Programmer - Dhruv Rana

Editor/Programmer - Harrison Lessne

Editor/Programmer - Damon Wich

**PHP Files:**

| **File Name** | **Function/Purpose** | **Related Page(s)/Components** |
| --- | --- | --- |
| Index.php | This page allows the user to login to our website with a username and password, giving them access to our website. | This page is related to the CreateAccount.php page as it is linked to it. |
| AddItems.php | The page is a form where the user can add an item to the website’s database. The user will input information such as an item image, name, description, features, and price. Submitting the form will add the item to the home page. | This page is related to the HomePage.php and AdminHome.php so that the items can be shown on the homepage |
| ItemDetail.php | This page gives the user a detailed view of an item, and also allows the user to add the item to the cart. | This page is related to HomePage.php and AdminHome.php as the user must select an item to view details. This page is related to CartPage.php as the user can add the item to the cart from this page. |
| ProfilesPage.php | This page allows the user to see their username and allows the user to change their password, through a change password feature. Also, this page allows the user to see the items that they have put up on the website and the purchases they have made. | This page is related to HomePage.php and AdminHome.php to select the profile option from the navigation bar. |
| CartPage.php | This page shows the user which items they want to buy allowing them to remove items if necessary and also check out items as well. | This page is related to CheckOut.php so that once the user has added items to the cart, they can proceed to buy the items. |
| CheckOut.php | This is where the user inputs their payment and credit card information, and then by clicking check out, they purchase the items in their cart. | This page is related to ThankYou.php after filling out all required information, it is also related to CartPage.php so it displays the accurate totals of items and the final cost. |
| ThankYou.php | This page thanks the user for the purchase, the purpose of this is to give the user feedback that their purchase came through. | This is related to the CheckOut.php page as it requires the data from the CheckOut.php page to work properly. |
| HomePage.php | This is the main hub for the website with a search function and an item function.  **Search Function:** This function allows the user to search for specific items on the homepage that match the words that they inputted. For example, if the user inputs “ball” then only related items to the word ball will show up  **Item function:** This Function shows items(images) to the user that when the user clicks on a specific item, it will give the user a detailed view of the item with information such as item name, seller, price, description, feature, buy button, and more. | This page relates to most other pages as it is the directory for every page. |
| CreateAccount.php | This page allows new users to sign up to our website so that they can access our website. This requires you to input: | The CreateAccount page is related to the homepage as after you create an account it goes to the homepage. |
| AdminHome.php | This is the main hub for the website for the admin with a search function and an item function.  **Search Function:** This function allows the user to search for specific items on the homepage that match the words that they inputted. For example, if the user inputs “ball” then only related items to the word ball will show up  **Item function:** This Function shows items(images) to the user that when the user clicks on a specific item, it will give the user a detailed view of the item with information such as item name, seller, price, description, feature, buy button, and more. | This page is related to index.php as the user must log in as an admin to access admin privileges. This page is also related to DeleteItem.php since the admin can access the page from the admin home page. |
| DeleteItem.php | This page allows the admin user to delete items on the website. | This page is related to AdminHome.php as the user must have admin privileges to delete items, and can access this page through AdminHome.php. |
| UpdateItem.php | This page allows the user to update the details of items they have added. | This page is related to the ItemDelatils.php page, Homepage.php and the AdminHome.php, since it would alter the items presented on these pages. |
| BanUsers.php | This page allows the admin user to ban normal users. | This page is related to AdminHome.php as the user must have admin privileges and can access this page through AdminHome.php. |

Database Layout:  
  
  
Users Table

| **Column Name** | **Data Type** | **Constraints** |
| --- | --- | --- |
| User ID | INTEGER | PRIMARY KEY |
| Username | VARCHAR(255) | NOT NULL |
| Email | VARCHAR(255) | NOT NULL |
| Password | VARCHAR(255) | NOT NULL |
| Join Date | DATE | NOT NULL |
| IsAdmin | TINYINT | NOT NULL |

Items Table

| **Column Name** | **Data Type** | **Constraints** |
| --- | --- | --- |
| Item ID | INTEGER | PRIMARY KEY |
| Seller ID | INTEGER | FOREIGN KEY (references Users(User ID)) |
| Title | VARCHAR(255) | NOT NULL |
| Description | TEXT | NOT NULL |
| Price | DECIMAL(10,2) | NOT NULL |
| Category ID | INTEGER | FOREIGN KEY (references Categories(Category ID)) |
| Listing Date | DATE | NOT NULL |
| Status | VARCHAR(100) | NOT NULL |
| Category Name | VARCHAR(255) | NOT NULL |

Cart Table

| **Column Name** | **Data Type** | **Constraints** |
| --- | --- | --- |
| Transaction ID | INTEGER | PRIMARY KEY |
| Buyer ID | INTEGER | FOREIGN KEY (references Users(User ID)) |
| Seller ID | INTEGER | FOREIGN KEY (references Users(User ID)) |
| Item ID | INTEGER | FOREIGN KEY (references Items(Item ID)) |
| Transaction Date | DATE | NOT NULL |
| Amount | DECIMAL(10,2) | NOT NULL |

VARCHAR(255) is used as it is the most storage efficient way as it takes 1 bit instead of 2 bits going beyond this character limit.