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Assignment

**Clothes Online System (COS)**

**Author:**

**Nguyễn Bá Lực – HE187315**

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# I. Overview

An online clothing website provides a platform for customers to easily search, view, and buy fashion products. The website displays collections, product details, sizes, and prices, along with a secure shopping cart and payment feature.

## 1. User Requirements

### Actors

|  |  |  |
| --- | --- | --- |
| **#** | **Actor** | **Description** |
| 1 | Admin | Manage order for Customers, user account, and product, |
| 2 | Customer | View and buy the goods in online shop system |
| 3 | Guest | View the goods in online shop system |

1. UC Diagram

#### A black background with white circles Description automatically generated b. Descriptions

- This web application is my assignment as per my teacher's request in class

- This is a website for guests and users to buy fashion items

- This website also has admin functionality to manage

- This website works well on desktop.

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Feature** | **Use Case** | **Use Case Description** |
| 01 | Homepage Operations | View Homepage | View the navbar(by role), productList, filter and search |
| 02 | Search Operation | Search product by name | View the product list by enter the name or part of name |
| 03 | Filter Operation | Filter product by category and brand | View the product list by tick the radio button in form include Category and Brand |
| 04 | Product Operation | View product list | View the product list in pagination |
| 05 | Product Operation | View product detail | View the detail of product |
| 06 | Cart Operation | Add to cart | Add a product from product list into a user cart |
| 07 | Cart Operation | Change the quantity | Increase the quantity of a product in user cart |
| 09 | Cart Operation | Remove the product | Remove a product from the user cart |
| 10 | Cart Operation | Check out the cart | Proceed product list in a cart to the check out page |
| 11 | Checkout Operation | Fill the user information | Fill the necessary user information to checkout product |
| 12 | Checkout Operation | Cancel the checkout | Cancel the checkout back to cart page to edit the quantity or remove product |
| 13 | Checkout Operation | Submit the checkout form | Submit the information user input, the product in the cart |
| 14 | Order Operation | View the order | View the orders of a users |
| 15 | Order Operation | View the order detail | See the product list in a order |
| 16 | Profile Operation | View the profile | See the user’s profile |
| 17 | Profile Operation | Edit the profile | Allow user edit profile in user’s profile view |
| 18 | Review feature | Add the review | Add a review in a product detail |
| 19 | Review feature | See the review | See the review list in a product detail |
| 20 | Product Management | Add a product | Add a new product into product list |
| 21 | Product Management | Update a product | Update a product exist in product list |
| 22 | Order Management | Update a order | Update the status of order |
| 23 | User Management | Update a user | Change the role of user,name of user |
| 24 | User Management | Add a user | Create a new user |
| 25 | Common feature | Login | Login the system with email and password |
| 26 | Common feature | Register | Register new account to the new system |
| 27 | Order Management | Search the order | Search the order by email of customer |
| 28 | User Management | Search the user | Search the user by email of customer |

## 2. Overall Functionalities

### 2.2 Screen Descriptions

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Feature** | **Screen** | **Description** |
| 1 | Homepage Operation | HomePage | View the Homepage structure |
| 2 | Common feature | User Login | The screen for user login |
| 3 | Common feature | User Register | User register a new account |
| 4 | Product Operation | Product List | View the product in pagination with search and filter |
| 5 | Product Operation | Product Detail | View the detail of product, review of product |
| 6 | Cart Operation | Cart Detail | View the product in the user cart |
| 7 | Checkout Operation | Cart Checkout | View the cart product list and the information of user |
| 9 | Homepage Operation | Homepage login | View the feature homepage by role in the system |
| 10 | Profile Operation | User profile | View the profile user |
| 11 | Order Operation | My Order | View the user’s order |
| 12 | Order Management | Order Delivery List | View the order of all user in system |
| 13 | Order Detail | Order Detail | View the detail order in the Order Delivery List screen |
| 14 | Product Management | Product List | View the product list with filter and search |
| 15 | Product Management | Product Detail | View the detail of product include the ID of product |
| 16 | User Management | User List | View the user list in the system |
| 17 | User Management | User Detail | View the user detail |
| 18 | User Management | User Add | Add a user into the system |

### 2.3 Screen Authorization

|  |  |  |  |
| --- | --- | --- | --- |
| **Screen** | **Guest** | **Customer** | **Admin** |
| HomePage | X | x | X |
| User Login | x |  |  |
| User Register | X |  |  |
| Product List | X | x | x |
| Product Detail | x | x | X |
| Cart Detail |  | x | X |
| Cart Checkout |  | x | X |
| Homepage login |  | x | x |
| User profile |  | x |  |
| My Order |  | x | x |
| Order Delivery List |  |  | x |
| Order Detail |  |  | x |
| Product List |  |  | x |
| Product Detail |  |  | x |
| User List |  |  | x |
| User Add |  |  | x |
| User Detail |  |  | x |

### 2.4 Non-UI Functions

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Feature** | **System Function** | **Description** |
| 1 | Validation | Validation users | Prevent guest use the function of admin and user |
| 2 | Validation | Validation admin | Prevent who the role not the admin use the admin function |

## 3. System High Level Design

### 3.1 Database Design

#### a. Database Schema

*A screenshot of a diagram

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#### b. Table Descriptions

|  |  |  |
| --- | --- | --- |
| **No** | **Table** | **Description** |
| 01 | Users | - Primary keys: username |
| 02 | Types | - Primary keys: id |
| 03 | Categories | - Primary keys: categoryid  - Foreign keys: type\_id |
| 04 | Suppliers | - Primary keys: supplierid |
| 05 | Products | - Primary keys: id  - Foreign keys: supplierid, categoryid, typeid |
| 06 | Payments | - Primary keys: paymentid |
| 07 | Orders | - Primary keys: order\_id  - Foreign keys: paymentid, username |
| 08 | OrderItem | - Primary keys: order\_item\_id  - Foreign keys: product\_id, order\_id |

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