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| **Software Requirement Specification** |

###### **Topic: Online Retail Application**

###### **Swim Wear a E-Commerce online Shopping**

###### **A Web Application**

**Development Team: 404**

**Member:**

**Đỗ Hùng Cường**

**Nguyễn Duy Vinh**

**Lê Thị Minh Phương**

**Nguyễn Thị Thủy Tiên**

**Lưu Minh Tín**

**Nguyễn Hồng Hà**

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[Introduction](http://www.enteract.com/~bradapp/docs/sdd.html#TOC_SEC4)

This document is designed to specify the overall system requirements that will govern the development and implementation of the system. The document will also establish the system requirements, user requirements, as well as, functional and non-functional requirement and stakeholders.

Requirement Engineering

Swim Wear a E-Commerce online Shopping

1/ Stakeholders

Administrator ,Guest, customer, shop manager, shop staff, cashier, shipper.

2/ System requirements

Swim Wear a E-Commerce online Shopping is a website that provides the products (swimwear) for customers to go shopping online and also help the administrators to easily manage the customers and their products (swimwear) in a shop by using this admin system.

1. The system shall be implemented as a client-server system with the information of product, customer, bank account held on a server maintained by a Swim Wear shop authority.
2. Client access to the system shall be provided through a standard web browser. In keeping with the E-Commerce online Shopping authorities policy of using open-source software wherever possible, the Firefox web browser shall be the standard browser that is supported.
3. The user interface to the system shall be an interactive forms-based interface.
4. All user selections shall be interacted with the system.
5. All user inputs shall be validated according to validation rules to be established when the system user interface is designed. If an input is invalid, the user shall be informed why it has been rejected by the system.

3/ User requirements

3.1 Guest requirements:

The guests can access the website in guest mode, they can view the information of shop, the information of products (swimwear) and also search some products to view. Moreover, the guests can register to have an account and become a customer.

1. The system shall provide list of products (swimwear) inside each category.
2. The system shall include a search feature that allows users to discover the swim wears in shop. Search may be based on name, category, type, brand, price and discount of each swim wear.
3. The system shall generate the account each time the guest register successfully.

3.2 Customer requirements:

Customers can access the website in customer mode directly when they logged into the system by their account, they can view the information of shop, the information of products (swimwear) and also search some products to view. In addition, the customers can order products to their shopping cart, manage their shopping cart, manage their profile, pay for the bill to receive the products (swimwear), and also view their transaction.

1. The system shall provide list of products (swimwear) inside each category.
2. The system shall include a search feature that allows users to discover the swim wears in shop. Search may be based on name, category, type, brand, price and discount of each swim wear.
3. The system shall add some features such as edit profile, shopping cart, payment and transaction whenever the guest have an account and login to the system.
4. The system shall combine the same products that customer add to their shopping cart and also calculate the new quantities and the total cost of shopping cart.
5. The system shall generate the bill when customer pay for their orders. The information of the bill includes products, quantities, total payment, created date.
6. The system shall generate the created date when any payment of customer is successful and this date will be displayed when customers view their transactions.

3.3 Administrator requirements

Administrators use the system directly when they logged into the system. They can also edit their profile. They can also manage the customer accounts, view customer’s transaction and update products (swimwear) to the shop.

1. The system shall allow the administrators to add new products (swimwear) to the database system and update the products information or delete some products if necessary.
2. The system shall allow the administrators access any information of a customer and all the transaction of this customer.
3. To easily manage and update the products, system shall provide a ‘select all’, ‘deselect’ and ‘delete selected’ button, administrators can delete many products at one time.

# Functional requirement:

* The user shall be able to register to become a customer.
* The systems shall be able to store registered information in the database.
* The customer shall be able to buy products from the website.
* The customer shall be able to login to the website.
* The system shall be able to check valid input email or password for login.
* The user shall be able to logout from the website after they finish their work.
* The customer shall be able to view product information.
* The system shall be able to connect to database and displays all the information of the chosen products.
* The product page shall have 5-star rating function for products.
* The user/guess/customer shall be able to search for products.
* The user/guess/customer shall be able to use high-functional search to sort out more details about desired products.
* The user/guess/customer shall use input text to search for a product.
* The products’ pictures shall be presented in picture slide show.
* The user/guess/customer shall be able to use their mouse to control the products’ picture slide show.
* The customers shall be able to edit their profiles.
* The system shall be able to change and store information of the customers in the database.
* The customer shall be able to add product to cart.
* The system shall be able to calculate total cost and displays the cost in Cart.
* The system shall be able to display all the products that the customer chose in the cart page, along with their quantity and cost.
* The customer shall be able to delete product from cart.
* The customer shall be able to pay bill to purchase products.
* The system shall be able to compare the total cost to the customers’ bank account.
* The system shall be able to notify if the bank account is not enough or successful transaction.
* The system shall be able to show related products.
* The customer shall be able to view transaction.
* The system shall be able to display all the transaction information such as: product name, quantity, cost, date and time purchase.
* Admin shall be able to update product name, delete product or add more information about a product in the database.
* Admin shall be able to add information on customer or delete customers.
* The customer shall be able to leave comment on the support page of the website.

# Non-functional requirement:

* The system shall be able to handle error conditions gracefully, without failure.
* The system shall be able to guide user to correct mistakes easily if wrong input are written.
* The system shall be built in a way that suits many types of user.
* The system shall be easy for user to look at and use its feature.
* The system shall be able to run perfectly on Mac, Linux, Windows and other at 50% CPU load.
* The system shall be able to respond to request in just under 500ms.
* The time spent to make a queue to and to retrieve the data from the system database shall be under 200ms on a 2.26GHz Pentium IV running Microsoft Windows XP at 50% CPU load.
* The system shall be able to be available all day and the database shall be able to be updated every day to protect and process task quickly.

### **Reference**

* Team Discussion
* Vision & Scope
* Project Plan
* Requirements Engineering of The Mentcare system