Method Design

Class: CUSTOMERSERVICE

Public Customer Login(Customer customer)

Use to customer log in e-shopping website system.

Return the customer which customer login.

Public List<Product> SearchProductByName(String productName)

Get the products that contains same name the customer required.

Return a list of all product name same as customer required.

Public void AddToShoppingCart(Product product)

Put the selected product to current customer shopping cart. The shopping cart shall add this new product, and sum of charge shall plus new product’s price.

Public Customer CheckOut(Customer customer)

Calculate the total of all product price inside the current shopping cart and clear customer shopping cart for next shop.

Return the current check out customer.

Public Customer SaveShoppingCart(Customer customer)

Save customer current shopping cart and all products inside, wait the customer check out next time.

Return the current save shopping cart customer.

Public Customer EditProfile(Customer customer)

The customer shall edit the detail self-information for prepare the shopping.

Return the current edit profile customer.

Public Customer Register(Customer customer)

The user register an account for to be a customer of e-shopping website system.

Return the current register customer.

Public Customer getCurrentCustomer()

Get the customer that login the e-shopping website currently.

Return the current customer.

Public Costomer setCurrentCustomer(Customer customer)

Setting the current e-shopping website system customer.

Parameter customer should be the current login successfully customer.

Return the currentCustomer.

Public ShoppingCart getSaveShoppingCart(Customer customer)

Get a shopping cart that the customer saved and not finish the check out.

Return the customer lastly saved shopping cart.

Class: ADMINISTRATORSERVICE

Public Product EditProductInfo(Product product)

The admin update the information of the products of website system.

Return a new product that admin have changed.

Public List<ShoppingHistory> ScanShoppingHistory()

The admin can Scan all of customers shopping History.

Return List<ShoppingHistory> that contains all of customer shopping history.

Public Administrator Login(Administrator admin)

The log into e-shopping website system for customer specially.

Return current successfully login administrator.

Class CustomerDAO

Public Customer getCustomerById(String customerID)

Get a customer by the customer id.

Return a customer that have same id.

Public Customer addCustomer(Customer customer)

Add a new customer to system from the parameter.

Return the new added customer.

Public Customer updateCustomer(Customer customer)

Update the information inside of current Customer.

Return the new changed Customer.

Public List<Customer> getCustomers()

Get the all customers of e-shooping website system.

Return all of customers.

Class :ShoppingCartDAO

Public shoppingCart getShoppingCart(Customer customer)

Get a customer’s shopping cart with the parameter.

Return the special customer’s shopping cart.

Public ShoppingCart addProduct(Product product)

Put the product that customer chose to the customer’s shopping cart.

Return the current customer’s shoppingCart.

Public ShoppingCart DeleteProduct(Product product)

Delete the product that inside the current customer shopping cart.

Parameter product should be the product that has be inside the current customer shopping cart.

Return the shopping cart that have delete changed.

Public List<Product> getProducts(ShoppingCart shoppingCart)

From the parameter shopping cart, get the all product that inside the shopping cart.

Return List<Product> that contains all product in shopping cart.

Public ShoppingCart clearShoppingCart(ShoppingCart shoppingCart)

Delete all products in the shopping cart.

Return a empty shopping cart.

Class: PRODUCTDAO

Public Product getProductByName(String productName)

Get a product that have same name with parameter.

Return a product that have same name.

Public Product getProductByName(String productID)

Get a product that have same id with the parameter.

Return a product that caontains same id.

Public Product addProduct(Product product)

Add a new product to the e-shopping website system.

Return the new product.

Public boolean DeleteProduct(Product product)

Delete a product in the e-shopping website system.

Return the true, the product delete successful.

Public product updateProduct(Product product)

Change a product of e-shopping websie system.

Return the changed new product.

Class: ShoppingHistoryDAO

Public ShoppingHistory getShoppingHistoryById(String customerID)

Get the shopping history belong to special customer that customer id same as the parameter.

Return the special customer’s shopping history.

Public List<ShoppingHistory> getShoppingHistories()

Get all of customers shopping histories in the e-shopping website.

Return List<ShoppingHistory> that contains all shopping histories.

Public ShoppingHistory AddShoppingHistory(ShoppingCart shoppingCart)

Make a shopping cart that have check out to be a shopping history.

Return the new shopping history.