**The as-is system**

In old web system has features such as cart system, member system and look like a bit disorderly.The user can comment on any product that on the list.About the purchase system user can pick products to the cart then transaction through the bank transaction system.In member system can register by email address.

**The To-be system**

In our E-commerce site system focus on easy to use. Users that have a little experience can use our website immediately(don't need to learn more).Our web system can store data in the database such as order list, order history, user data(id, address, name) and link to the PAYPAL site for a payment system(user must have a PayPal account).Then payment history will store in our database.This web also provides admin to manage about USER, PRODUCT, ORDER LIST.In product page has amount of in stock product to show to the user.Member system in our system provides user to edit his account also have forgotten password feature to help the user recover their password.A member can view the status of order Ex.Shipping,wait for transaction,finished.

**Project Definition**

Guest: Every people which is access to this web application and haven’t register before.

Customer: Account of people which is register to this web application.

Member: Account of Customer and Admin.

Admin: Account that have permission to do application data configuration activity and view the summary report.

Member account information: Data that every account in the system must have; there are username, password, E-mail.

**URS-SRS**

**Member system for the customer and the administrator**

**URS01: Guest can register to become a customer by filling information.**

**SRS-01**: System shall provide user interface to user for input username, password, confirm password, E-mail, phone number and address.

**SRS-02**: System shall validate username that must be 6-20 characters, a-z, A-Z, 0-9, didn’t exist in the system and not empty.

**SRS-03**: System shall show the warning message “username must be 6-20 characters, a-z, A-Z, 0-9, and didn’t exist in the system” if input username don’t be 6-20 characters, a-z, A-Z, 0-9, or already have in the system.

**SRS-04**: System shall validate password that must be 6-20 characters, include letters, number and match with confirmed password and not empty.

**SRS-05**: System shall show the warning message “password must be 6-20 characters, a-z, A-Z, 0-9,” if input password don’t be 6-20 characters or include letters and number.

**SRS-06**: System shall validate E-mail that must be correct email format (RFC5322), exist in system and not empty.

**SRS-07**: System shall show the warning message “email already exist or email must be correct type” if input email don’t be correct format, already exist in system and not empty.

**SRS-08**: System shall validate phone number that must be 0-9, 10 digits number and start with 0.

**SRS-09**: System shall show the warning message “phone number must be 0-9 or number must be 10 digits or number must be start with 0” if input phone number don’t be 0-9 or 10 digits number or don’t start with 0.

**SRS-10**: System shall validate address which are address number, village No, sub-district, district, province and postal that must be not empty.

**SRS-11**: System shall show the error message “address must be not empty” if address don’t be input.

**SRS-12**: System shall store username, password, E-mail, phone number and address that passed validation to be a customer account.

**URS02: Member can login to the system by using username and password.**

**SRS-13**: System shall provide user interface for receive username and password form the user.

**SRS-14**: System shall make checking form input username and password for login to the system.

**SRS-15**: System shell show error message “invalid username or password” if username and password doesn’t correct.

**URS03: Member can edit his own account information.**

**SRS-16**: System shall provide user interface for edit Member account information which are input username, password, E-mail, phone number and address.

**SRS-17**: System shall store updated information

**URS04: Member can view his own account information.**

**SRS-18**: System shall provide user interface that show username, email, phone number and address of that member account.

**URS05: Member can change his own password**

**SRS-19**: System shall provide user interface to send forgot password request to the system.

**SRS-20**: System shall send the email to the user email that system get forgot password request that contain URL to make change for password.

**SRS-21**: System shall update new password in database.

**URS06: Member can logout to the system.**

**SRS-22**: System shall provide user interface to request to logout form the system.

**SRS-23**: System shall logout for user.

**URS07: Admin can edit member account information**

**SRS-24**: System shall provide user interface for show list of member account.

**URS08: Admin can delete member account.**

**SRS-25**: System shall provide user interface for delete Member account information.

**SRS-26**: System can be delete a Member form database.

**Purchase system**

**URS09: everybody can see list of products.**

**SRS-27**: System shall provide user interface that show the list of product.

**URS10: member can make order by select product on the product list.**

**SRS-28**: System shall provide user interface for member to select product form the list of product and product detail which are product name, product price, product image and product description.

**SRS-29**: system shall provide user interface that show selected product.

**SRS-30**: System shall provide user interface for receive amount of selected product and donate.

**SRS-31**: System shall validate amount of selected product that must be integer.

**SRS-32**: System Shall Validate donate that must be integer.

**SRS-33**: System shall provide total price form selected product.

**SRS-34**: System shall provide user interface for make order.

**SRS-35**: System shall provide order detail which are product selected list, member username, order tag, member address and phone number that user can edit before confirm.

**SRS-36**: System shall store order detail which are list of product, member id, time stamp, order status and update address and phone number.

**URS11: member can make payment by using PayPal.**

**SRS-37**: System shall provide user interface for make payment for each order that will use PayPal service.

**URS12: member can view Ordering history.**

**SRS-38**: System shall provide user interface that show order list of that member account with order detail are order time, order status, product list, total price and amount of each product.

**Inventory management**

**URS13: admin can add new product.**

**SRS-39**: System shall provide user interface for receive input form admin account which are name of product, price of product, product description, product tag and product active status.

**SRS-40**: System shall validate product name that must be A-Z, a-z and 0-9.

**SRS-41**: System shall validate product price that must be integer.

**SRS-42**: System shall validate product description that must no longer than 255 character.

**SRS-43**: System shall validate amount of product that must integer and not empty.

**SRS-44**: System shall store new product data.

**URS14: admin can add new lot of product.**

**SRS-45**: System shall provide user interface for admit to input expired date and amount of product.

**SRS-46**: System shall validate expired date must be date format.

**SRS-47**: System shall validate amount of product that must be interger.

**SRS-48**: System shall store lot of product.

**URS15: admin can edit lot of product.**

**SRS-49**: System shall provide user interface for show lot of product.

**SRS-50**: System shall update lot of product form input expired date and amount of product.

**URS16: Admin can delete lot of product.**

**SRS-51**: System shall delete lot of product that selected form the system.

**URS15: admin can edit product information.**

**SRS-52**: System shall provide user interface for admin account to edit product information in product list.

**SRS-53**: System shall update product information.

**URS16: admin can delete product in inventory.**

**SRS-54**: System shall provide user interface for admin account for delete product.

**SRS-55**: System shall delete product and its lot.

**URS17: admin can view inventory report.**

**SRS-56**: System shall provide user interface for admin that show table of product id, product name, amount of product, product price, total price of each product,

**Delivery management**

**URS17: admin can change status order.**

**SRS-57**: System shall provide user interface for admin for change order status by select order status which are waiting for payment, paid, transferring, cancel and close.

**SRS-58**: System shall decrease amount of product in lot when order status change to paid.

**URS18: admin can view order.**

**SRS-59**: System shall provide user interface that show all of order in the list.

**SRS-60**: System shall can show all order that occur in the same day that select.

**SRS-61**: System shall can show all order that occur in the same month that select.

**URS20: Member his own order.**

**SRS-62**: System shall provide user interface for member that show owner order

**Use case diagram**

**Class diagram**

**Construction plan**

**Sequence diagram**

**The method design**

**The traceability matrix**

**Unit Test case**

**Acceptance test**

**User manual**