**Functional Requirement**

**User Requirement**

**URS01: The administrator can login to the system.**

SRS01: The system provides the login user interface which receives the username and password for user to access the system.

SRS02: The system shall connect to the database.

SRS03: The system can validate the username and password.

SRS04: The system shall show the name of the user on the top-right of the user interface.

SRS05: The system shall show the picture of the user on the top-right of the user interface to confirm his identity.

SRS06: The system shall show the error message “Incorrect username and password! Please try again” if the username and password are not matching with the data in the database.

SRS07: The system retrieves the administrator information from the username.

SRS08: The system stores the administrator information as the current administrator.

**URS02: The administrator can add the product to the system consists of the name, description, and pictures of the product.**

SRS09: The system provides the adding new product user interface for the administrator to add the product to the system consist of the product name, product description, and product pictures.

SRS10: The system shall add the product to the system.

SRS11: The system shall display the message “Successful adding the product” when add the product to the system completely.

**URS03: The administrator can edit details of the product.**

SRS12: The system provides the modification user interface for the administrator to edit the information of the product which exists on the system.

SRS13: The system shall retrieve the information of the product from the database.

SRS14: The system shall edit the details of the product.

SRS15: The system shall display the message “Successful adding the product” when add the product to the system completely.

**URS04: The administrator can remove the products out of the system.**

SRS16: The system provides the UI which display lists of product for administrator select to remove from the system.

SRS17: The system shall remove the product which is he does not want to sell.

SRS18: The system shall display the message “The product has been removed” after user submitted.

**URS05: The administrator can see the shopping history of all customers.**

SRS19: The system provides the shopping history UI for admin to see the buying transaction of all customers.

SRS20: The system shall retrieve the all of buying transaction information.

SRS21: The system shall display the buying transaction list of all customers.

**URS06: The administrator can log out the system.**

SRS22: The system provides the log out user interface for the user

SRS23: The system shall end the operation of the user authorization.

SRS24: The system shall render to the homepage UI.

**URS07: The customer can register an account to access with the system.**

SRS25: The system provides the registration UI for the customer consists of a username, password, name, surname, address, email, and picture.

SRS26: The system shall connect to the database.

SRS27: The system can validate the existing username in the database.

SRS28: The system can check the name format. It should be only alphabet.

SRS29: The system can check the surname format. It should be only alphabet.

SRS30: The system can check the username format. It should be contain only letters, number, hyphens (-), and underscores (\_).

SRS31: The system can check the password length. It should be 4-10 characters.

SRS32: The system can check the password format. It should be contain the capital letter, small letter, and number

SRS33: The system can check the email format. It should be the e-mail format.

SRS34: The system can check the blank field. It should not be blank.

SRS35: The system shall add new customer information to the database using name, surname, username, password, email, address, picture and the customer id.

SRS36: The system shall display the message “Registered Successfully”.

SRS37: The system shall display an error message “The username was used. Please try again” when database has the existing username.

SRS38: The system shall display an error message if wrong name format: The error message is “The name format should be only alphabet.”

SRS39: The system shall display an error message if wrong surname format: The error message is “The surname format should be only alphabet.”

SRS40: The system shall display an error message if wrong username format: The error message “The username format should be contain only letters, number, hyphens (-), and underscores (\_).”

SRS41: The system shall display an error message if password length is not between 4-10 characters: The error message is “The password length should be 4-10 characters.”

SRS42: The system shall display an error message if wrong password format: The error message is “The password must contain the capital letter, small letter, and number.”

SRS43: The system shall display an error message if wrong email format: The error message is “Please enter your email address in the format.”

SRS44: The system shall display an error message if the text box does not put the data: The error message is "Please enter your information".

**URS08: The customer can log in to the system.**

SRS01: The system provides the login user interface which receives the username and password for user to access the system.

SRS02: The system shall connect to the database.

SRS03: The system can validate the username and password.

SRS04: The system shall show the name of the user on the top-right of the user interface.

SRS05: The system shall show the picture of the user on the top-right of the user interface to confirm his identity.

SRS06: The system shall show the error message “Incorrect username and password! Please try again” if the username and password are not matching with the data in the database.

SRS45: The system retrieves the customer information from the username.

SRS46: The system stores the customer information as the current customer.

**URS09: The customer can update his registration information after he was a member.**

SRS47: The system provides the edit account user interface which the customer can update his profile.

SRS28: The system can check the name format. It should be only alphabet.

SRS29: The system can check the surname format. It should be only alphabet.

SRS31: The system can check the password length. It should be 4-10 characters.

SRS32: The system can check the password format. It should be contain the capital letter, small letter, and number

SRS33: The system can check the email format. It should be the e-mail format.

SRS34: The system can check the blank field. It should not be blank.

SRS38: The system shall display an error message if wrong name format: The error message is “The name format should be only alphabet.”

SRS39: The system shall display an error message if wrong surname format: The error message is “The surname format should be only alphabet.”

SRS41: The system shall display an error message if password length is not between 4-10 characters: The error message is “The password length should be 4-10 characters.”

SRS42: The system shall display an error message if wrong password format: The error message is “The password must contain the capital letter, small letter, and number.”

SRS43: The system shall display an error message if wrong email format: The error message is “Please enter your email address in the format.”

SRS44: The system shall display an error message if the text box does not put the data: The error message is "Please enter your information".

SRS48: The system shall update the modification of the customer’s account.

SRS49: The system shall display the message “Successfully updated account”.

**URS10: The customer can browse the product catalogs.**

SRS50: The system provides the product catalog user interface for browsing the product.

SRS51: The system shall retrieve the existing product data from the database.

SRS52: The system shall display the product list on the screen.

**URS11: The customer can search for the product name.**

SRS53: The system provides the searching user interface for searching products by receiving the keyword which is the product name.

SRS54: The system shall query the information from the database.

SRS55: The system can validate the received keyword is matched with the existing data or not.

SRS56: The system shall display the result which the customer searched.

SRS57: The system shall display “Not found item”.

**URS12: The customer can add the product to his shopping cart.**

SRS58: The system provides the product catalog user interface which contains the quantity and the information of each product.

SRS59: The system can add the product which customer selected to the shopping cart user interface.

SRS60: The system provides the shopping cart user interface contains all of the orders which the customer added consist of the product details and total price.

**URS13: The customer can remove the added product on the shopping cart.**

SRS61: The system provides the shopping cart user interface contains all of the orders which the customer added consist of the product details and total price.

SRS62: The system can remove the product which is added into the shopping cart list.

SRS63: The system can update the latest adding product result of the shopping cart.

**URS14: The customer can select checkout to see the buying transaction summary.**

SRS64: The system provides the checkout user interface consists of the shopping cart summary.

SRS65: The system shall record the buying transaction into the database.

SRS66: The system shall display the buying transaction summary to the user interface.

SRS67: The system shall display the message if cart does not have any item inside.

SRS68: The system provides the UI for selecting the payment options.

SRS69: The system shall send the request to the banking system.

SRS70: The system shall display message “Shopping completed, Thank you”

**URS15: The customer can see the shopping history which he had done the shopping process.**

SRS71: The system provides the shopping history UI for the customer to see the history of his online shopping.

SRS72: The system shall retrieve the buying transaction from the database.

SRS73: The system shall display the buying transaction details, including the order id, date, product name, price, quantity, total price and the transaction status on the user interface.

SRS74: The system shall display the message “Your account no have the transaction history” if the system has not found the transaction history.

**URS16: The customer can save the shopping cart which will be shopping ​​later.**

SRS64: The system provides the checkout user interface consists of the shopping cart summary.

SRS75: The system shall record the data in the shopping cart to the database.

**URS17: The customer can log out the system.**

SRS22: The system provides the log out user interface for the user

SRS23: The system shall end the operation of the user authorization.

SRS24: The system shall render to the homepage UI.

**URS18: The customer can continue shopping the latest cart.**

SRS76: The system provides the UI for loading the latest cart which does not complete yet.

SRS77: The system shall retrieve the shopping cart data from the database.

SRS78: The system shall display the shopping cart summary of the latest shopping process.

SRS79: The system shall display an error message “Not found cart”.