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# URS

## List URS

URS-01: Customer can registration themselves as customer.  
  
URS-02: Customer can login to the system.

URS-03: Customer can view all the product category.

URS-04: Customer can search the product.

URS-05: Customer can add the product as many products as customer want to the shopping cart.

URS-06: Customer can edit the product in the shopping cart.

URS-07: Customer can save the product in the shopping cart.

URS-08: Customer can check out for purchase the product.

URS-09: Customer can view the shopping history.

URS-10: Customer can logout.

URS-11: Administrator can login to the system.

URS-12: Administrator can view the shopping history of all customer.

URS-13: Administrator can provide detail of the product.

URS-14: Administrator can update all information of registration.

URS-15: Administrator can logout.

# SRS

## List SRS

**SRS-01:** The system provide an interface for registration which receive username, password,   
 name address and their picture for the registration.   
 **SRS-02:** The system can check the name format. The name format should be only a character.  
 **SRS-03:** The system can check the address. The address format should be a characters between 1-255 characters.  
 **SRS-04:** The system can check the picture that user uploading. The picture should be an image format such as, .png, .jpg.  
 **SRS-05:** The system can check the username format. The username format should be characters.  
 **SRS-06:** The system can check the password format. The password format should be characters.  
 **SRS-07**: The system shall connect to the database.  
 **SRS-08**: The system retrieve information from the database.  
 **SRS-09:** The system shall add a new customer information to database using username,   
 password, name, address and their picture.  
 **SRS-10:** The system shall provide the successful registration page after registration is complete.  
 **SRS-11:** The system shall display the error message “The username must be characters”.  
 **SRS-12:** The system shall display the error message “The password must be characters”.  
  **SRS-13:** The system shall display the error message “The name must be only characters”.  
 **SRS-14:** The system shall display the error message “The address must be a characters between   
 1-255 characters”.  
 **SRS-15:** The system shall display the error message “The picture must be image format”.  
 **SRS-16:** The system provides the login interface which receive the user name and password.  
 **SRS-17:** The system can check the username format. The username format should be characters.  
 **SRS-18:** The system can check the password format. The password must contain the characters.  
 **SRS-19:** The system validates the username and password.  
 **SRS-20:** The system shall provide the successful login page.  
 **SRS-21:** The system shall show the user status with a customer picture on the top-right of   
 the user interface to confirm his identity.  
 **SRS-22:** The system provide an interface that show all the product category including, name,   
 description, price and image.   
 **SRS-23:** The system show the product detail that consist of name, description, price and   
 image.  
 **SRS-24:** The system shall provide interface to search a product page which receive product   
 name for searching.  
 **SRS-25**: The system retrieve information from the database by name.  
 **SRS-26:** The system shall provide detail page that consist with product name, product   
 description, and product picture.   
 **SRS-27:** The system shall provide the interface to add new product which user selected.  
 **SRS-28:** The system add the product that user is selected into the shopping cart.  
 **SRS-29:** The system shall update the product that user is selected into the database.  
 **SRS-30:** The system shall provide the successful add new product page after user add new   
 product into the shopping cart.  
 **SRS-31**: The system shall delete the products from the database.  
 **SRS-32:** The system shall update amount of the products into database.  
 **SRS-33**: The system shall display the error message “The system cannot edit the new updating”.  
 **SRS-34**: The system shall display the message “Edit Completed” when updated in the database.  
 **SRS-35**: The system provide an interface for edit function.  
 **SRS-36:** The system shall update information into the database.  
  **SRS-37:** The system shall display error message “The system cannot save the new product”.  
 **SRS-38:** The system shall display error message “The system cannot connect to the database”.  
 **SRS-39:** The system shall display the message “Save Completed” when updated in the database.  
 **SRS-40:** The system provide an interface for save function.

**SRS-41**: The system shall provide an interface for Check out function.  
 **SRS-42:** The system shall provide an interface for select the payment option including, Transfer,   
 Credit card and PayPal.  
 **SRS-43:** The system shall update payment option into the database.  
 **SRS-44:** The system shall display message “Purchase successful” when the transect amount from banking system.  
 **SRS-45:** The system provide an interface for the shopping history page.  
 **SRS-46**: The system retrieve shopping history form the database by reference from user.  
 **SRS-47:** the system provide an interface for logout.  
 **SRS-48:** The system doesn’t show a user status on top right after logout successful.  
 **SRS-49**: The system retrieve shopping history form the database by reference from date.  
 **SRS-50:** The system provide an interface that show all the shopping history of all customer.  
 **SRS-51:** The system provide an interface for update a product which receive name, description, price and image.  
 **SRS-52:** The system provide an interface for update the registration which receive username, password, name, address and their picture for the registration.

## URS/SRS

**URS: CUSTOMER  
URS-01**: Customer can registration themselves as customer.  
 **SRS-01:** The system provide an interface for registration which receive username, password,   
 name address and their picture for the registration.   
 **SRS-02:** The system can check the name format. The name format should be only a character.  
 **SRS-03:** The system can check the address. The address format should be a characters between 1-255 characters.  
 **SRS-04:** The system can check the picture that user uploading. The picture should be an image format such as, .png, .jpg.  
 **SRS-05:** The system can check the username format. The username format should be characters.  
 **SRS-06:** The system can check the password format. The password format should be characters.  
 **SRS-07**: The system shall connect to the database.  
 **SRS-08**: The system retrieve information from the database.  
 **SRS-09:** The system shall add a new customer information to database using username,   
password, name, address and their picture.  
 **SRS-10:** The system shall provide the successful registration page after registration is complete.  
 **SRS-11:** The system shall display the error message “The username must be characters”.  
 **SRS-12:** The system shall display the error message “The password must be characters”.  
  **SRS-13:** The system shall display the error message “The name must be only characters”.  
 **SRS-14:** The system shall display the error message “The address must be a characters between 1-255 characters”.  
 **SRS-15:** The system shall display the error message “The picture must be image format”.  
**URS-02**: Customer can login to the system.  
 **SRS-16:** The system provides the login interface which receive the user name and password.  
 **SRS-17:** The system can check the username format. The username format should be characters.  
 **SRS-18:** The system can check the password format. The password must contain the characters.  
 **SRS-19:** The system validates the username and password.  
 **SRS-20:** The system shall provide the successful login page.

**SRS-07**: The system shall connect to the database.  
 **SRS-08**: The system retrieve information from the database.  
 **SRS-21:** The system shall show the user status with a customer picture on the top-right of   
 the user interface to confirm his identity.  
**URS-03**:Customer can view all the product category.   
 **SRS-22:** The system provide an interface that show all the product category including, name,   
 description, price and image.   
 **SRS-07**: The system shall connect to the database.  
 **SRS-08**: The system retrieve information from the database.  
 **SRS-23:** The system show the product detail that consist of name, description, price and   
 image.  
**URS-04:** Customer can search the product.  
 **SRS-24:** The system shall provide interface to search a product page which receive product   
 name for searching.  
 **SRS-07**: The system shall connect to the database.  
 **SRS-25**: The system retrieve information from the database by name.  
 **SRS-26:** The system shall provide detail page that consist with product name, product   
 description, and product picture.  
**URS-05**: Customer can add the product as many products as customer want to the shopping cart.   
 **SRS-27:** The system shall provide the interface to add new product which user selected.  
 **SRS-28:** The system add the product that user is selected into the shopping cart.

**SRS-07**: The system shall connect to the database.  
 **SRS-29:** The system shall update the product that user is selected into the database.  
 **SRS-30:** The system shall provide the successful add new product page after user add new   
 product into the shopping cart.  
**URS-06:** Customer can edit the product in the shopping cart.  
 **SRS-07**: The system shall connect to the database.  
 **SRS-31**: The system shall delete the products from the database.  
 **SRS-32:** The system shall update amount of the products into database.  
 **SRS-33**: The system shall display the error message “The system cannot edit the new updating”.  
 **SRS-34**: The system shall display the message “Edit Completed” when updated in the database.  
 **SRS-35**: The system provide an interface for edit function.  
**URS-07:** Customer can save the product in the shopping cart.  
 **SRS-07**: The system shall connect to the database.  
 **SRS-36:** The system shall update information into the database.  
  **SRS-37:** The system shall display error message “The system cannot save the new product”.  
 **SRS-38:** The system shall display error message “The system cannot connect to the database”.  
 **SRS-39:** The system shall display the message “Save Completed” when updated in the database.  
 **SRS-40:** The system provide an interface for save function.

**URS-08:** Customer can check out for purchase the product.  
 **SRS-07**: The system shall connect to the database.  
 **SRS-08**: The system retrieve information from the database.  
 **SRS-36**: The system update product information in database.

**SRS-41**: The system shall provide an interface for Check out function.  
 **SRS-22:** The system provide an interface that show all the product category including, name,   
 description, price and image  
 **SRS-42:** The system shall provide an interface for select the payment option including, Transfer,   
 Credit card and PayPal.  
 **SRS-43:** The system shall update payment option into the database.  
 **SRS-44:** The system shall display message “Purchase successful” when the transect amount from   
 banking system.  
**URS-09:** Customer can view the shopping history.  
 **SRS-45:** The system provide an interface for the shopping history page.  
 **SRS-46**: The system retrieve shopping history form the database by reference from user.  
**URS-10:** Customer can logout.  
 **SRS-47:** the system provide an interface for logout.  
 **SRS-48:** The system doesn’t show a user status on top right after logout successful.

**URS: ADMINISTRATOR  
URS-11**: Administrator can login to the system.  
 **SRS-16:** The system provides the login interface which receive the user name and password.  
 **SRS-17:** The system can check the username format. The username format should be characters.  
 **SRS-18:** The system can check the password format. The password must contain the characters.  
 **SRS-19:** The system validates the username and password.  
 **SRS-20:** The system shall provide the successful login page.  
 **SRS-07**: The system shall connect to the database.  
 **SRS-08**: The system retrieve information from the database.  
 **SRS-21:** The system shall show the user status with a customer picture on the top-right of   
 the user interface to confirm his identity  
**URS-12:** Administrator can view the shopping history of all customer.  
 **SRS-44:** The system provide an interface for the shopping history page.  
 **SRS-45**: The system retrieve shopping history form the database by reference from user.  
 **SRS-49**: The system retrieve shopping history form the database by reference from date.  
 **SRS-50:** The system provide an interface that show all the shopping history of all customer.  
**URS-13:** Administrator can provide detail of the product.  
 **SRS-51:** The system provide an interface for update a product which receive name, description,   
 price and image.  
 **SRS-07**: The system shall connect to the database.  
 **SRS-36**: The system update information into database.  
**URS-14:** Administrator can update all information of registration.  
 **SRS-52:** The system provide an interface for update the registration which receive username,   
 password, name, address and their picture for the registration.  
 **SRS-07**: The system shall connect to the database.  
 **SRS-36:** The system shall update all information into database.  
**URS-15:** Administrator can logout.  
 **SRS-47:** the system provide an interface for logout.  
 **SRS-48:** The system doesn’t show a user status on top right after logout successful.

# Use case Diagram

## List use cases

## Use case

# Class Diagram

## List Class Diagram

## Class Diagram

# Sequence Diagram

## List Sequence Diagram

## Sequence Diagram

# Method Design

## List method

### Proper method design

# Traceability

## Traceability matric between USR/SRS

## Traceability matric between USR/Class Diagram

## Traceability matric between USR/Use cases Diagram

## Traceability matric between USR/Sequence Diagram

## Traceability matric between USR/Method designs

## Traceability matric between SRS/Use cases Diagram

## Traceability matric between SRS/Class Diagram

## Traceability matric between SRS/Sequence Diagram

## Traceability matric between SRS/Method designs

## Traceability matric between Use cases Diagram / Class Diagram

## Traceability matric between Use cases Diagram /Sequence Diagram

## Traceability matric between Use cases Diagram /Method designs

## Traceability matric between Class Diagram/Sequence Diagram

## Traceability matric between Class Diagram/Method designs

## Traceability matric between Sequence Diagram/Method designs