User Guide

Comp2411

OSS Project

Group 25

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Introduction of the OSS System

Our Online Shopping System (OSS) is a user-centric platform designed to facilitate a smooth and convenient online shopping experience. It enables customers to effortlessly browse, search, and purchase products.

Within this system, users have the option to register as either an administrator or a customer. Each user has the ability to manage their account details, including updates to their phone number, username, password, and personal information.

For administrators, the system offers a comprehensive suite of tools. These include the ability to add, delete, or edit products, filter product listings, access all products, search for a product using its ID or name, view all customers, search for a customer using their phone number or username, access all orders, search for an order using its ID, view all shopping cart information, and search for shopping cart information using a product ID, product name, or user phone number.

For customers, the system provides a range of features to enhance their shopping experience. These include the ability to add products to their shopping cart, adjust product quantities within the cart, delete products from the cart, filter product listings, access all products, search for a product using its ID or name, checkout their shopping cart, review previous orders, and top up their account balance.

To start:

To run this project, please download the zip file and compress it on a computer in COMP Department Lab (Important!). Then you would need to download an IntelliJ IDEA to open the extracted file, set the JDK version to 17 and start the program by compiling and running Application.java. Also, before you run the program, please change the oracle account name and password into your own oracle account in Database.java which is under the database folder so it can get access to your database. Meanwhile, you need to run the SQL file, test_data.sql on SQL PLUS to initialize the relational schemata. Some data for your testing has also been prepared in that file.

The circled part is the part you need to change to login into your oracle account

Part 1

Create an account/ Login an account

1.1

When you start the program, the starting session would look like this:

When you activate the system and it shows this picture, it means that the system is activated successfully

Then you would be required to login in with an account to start.

1.2

If you have an existing account created before that hasn't been deleted, please go to session part 1.3 in the user manual.

If you haven't created an account before, you can enter R to register a new account.

After you have successfully entered R to register a new account

If you would like to create a new administrator account, enter A.

Then follow the instructions and rules to create your own account, remember it is an administrator account, so you won't make mistakes during the login process.

Note: Please make sure that all the phone numbers used to create are unique, any repeated phone numbers will result in an error output as shown below.

Administrator account with phone number 1234567, username Test1 and password testing 1 created

If you would like to create a new customer account, enter C.

Then follow the instructions to create your own account, remember it is a customer account, so you won't make mistakes during the login process. For phone number session, rules are the same as notes mentioned above.

customer account with phone number 123456, username Test2 and password testing 2 created.

If you would like to return back to the previous session, enter B.

If you would like to quit the program, enter Q.

1.3

If you have an account, you can enter L to login.

Which will take you to the session like the picture below, then you can choose which kind of account you would like to log in.

Successfully enter L to login session

If you would like to log in as an administrator, enter A.

Follow the instructions and enter the phone number and password. Once you have successfully logged in. This will be the shown picture.

Note: Please make sure the type of account you have logged in is the same as the account type you registered.

Successfully logged in as an administrator with correct user phone number and password.

If you would like to log in as a customer, enter C.

Follow the instructions and enter the phone number and password. Once you have successfully logged in. This will be the shown picture.

Note: Please make sure the type of account you have logged in is the same as the account type you registered.

Successfully logged in as a customer with correct user phone number and password.

If you would like to return back to the previous session, enter B.

```
**************************
Welcome to the Online Shopping System!
   [L] Login
   [R] Register
  [Q] Quit
*************************
What kind of account you would like to register?
   [A] Administrator
   [C] Customer
   [B] Back
  [Q] Quit
Please enter your choice: B
**********************
Welcome to the Online Shopping System!
   [L] Login
   [R] Register
  [Q] Quit
Please enter your choice:
```

Returned back to login session using B to return back

If you would like to quit the program, enter Q.

1.4 Enter Q to quit the system.

Successfully logged out of the system

Part 2

Functions for users that logged in as an administrator

As an administrator, the user can use the following functions.

```
**************************
Hello, our distinguished administrator!
   [A] Add a new product
   [D] Delete a product
   [E] Edit a product
   [F] Filter the products
   [61] Get all products
   [S1] Search a product with a product ID
   [S2] Search products with a product name
   [G2] Get all customers
   [S3] Search a customer with a phone number
   [S4] Search customers with a user name
   [G3] Get all orders
   [S5] Search an order with a order ID
   [64] Get all shopping cart information
   [S6] Search shopping cart information with a product ID
   [S7] Search shopping cart information with a product name
   [S8] Search shopping cart information with a user phone number
   [M1] Modify your phone number
   [M2] Modify your user name
   [M3] Modify your password
   [M4] Modify your personal information
   [65] Generate analysis report
   [L] Log out
   [Q] Quit
```

Picture of the functions an administrator can use

2.1

Add a new product:

To add a new product, enter A.

Successfully starting to add a new product

Then follow the instructions and rules to add a new product.

Notes: Please be reminded that all products have a unique Product ID, if you enter the same Product ID as any other products created before, it will result in an input error.

Successfully added a product with ID 123, name test, description "testing1", specification "test, price 100, availability quantity 20, and category "Product Testing"

2.2

Delete a product:

To delete a new product, enter D.

Successfully starting to delete a new product

Then follow the instructions and rules to delete an existing product.

Successfully deleted the product with product ID 123

2.3

Edit a product:

To edit an existing product, enter E.

Successfully started to edit a certain product

Then follow the instructions and enter the property you want to change and the new value for that property.

Notes: You can only change one property with one value in one execution, and all the changed value for each property has to obey the same rules when creating a new product. Example: you can't assign a new value of letters to the property PRICE of a product.

```
************************
You are now editing a product
   [B] Back
   [Q] Quit
Please enter the product ID of the product to edit: 123
Are you sure you to edit the product?
PRODUCT_ID: 123,
PRODUCT_NAME: test,
DESCRIPTION: testing1,
SPECIFICATION: test,
PRICE: 110,
AVAILABLE_QUANTITY: 20,
CATEGORY: Product Testing
Enter Y to start the edition, or any key to cancel: Y
Please enter the name of the property to edit (column name): PRODUCT_NAME
Please enter the new value for the property: test2
```

Product Test1 has successfully changed its PRODUCT_NAME from Test1 to NewTest1

2.4

Filter the products:

To print filtered products added in the OSS system, enter F.

Successfully started to print out filtered products

Then choose the kind of filter way you would like to have and enter different choices to start the process. Then follow the instructions to enter.

```
You are now filtering the products
   [F1] Filter with a key word in the product name
   [F2] Filter with a key word in the product description
   [F3] Filter with a key word in the product specification
   [F4] Filter with a criterion on the product price
   [F5] Filter with a key word in the product category
   [B] Back
   [Q] Quit
**************************
You are now filtering with a keyword on the product name
   [B] Back
   [Q] Quit
Please enter your keyword (no more than 20 characters): abc
PRODUCT_ID: 1919, PRODUCT_NAME: abc, DESCRIPTION: cbd, SPECIFICATION: jsa, PRICE: 120, AVAILABLE_QUANTITY: 21, CATEGORY: Testing
PRODUCT_ID: 12345, PRODUCT_NAME: abc, DESCRIPTION: ddd, SPECIFICATION: eee, PRICE: 114, AVAILABLE_QUANTITY: 514, CATEGORY: Testing2
The query result is printed
```

Products filter by using F1, filtered out products with name abc

```
***************************
You are now filtering the products
    [F1] Filter with a key word in the product name
    [F2] Filter with a key word in the product description
    [F3] Filter with a key word in the product specification
    [F4] Filter with a criterion on the product price
    [F5] Filter with a key word in the product category
    [B] Back
    [Q] Quit
Please enter your choice: F2
You are now filtering with a keyword on the product description
    [B] Back
    [Q] Quit
Please enter your keyword (no more than 200 characters): ddd
PRODUCT_ID: 12345, PRODUCT_NAME: abc, DESCRIPTION: ddd, SPECIFICATION: eee, PRICE: 114, AVAILABLE_QUANTITY: 514, CATEGORY: Testing2
The query result is printed
Enter any key to continue:
```

Products filter by using F2, filtered out products with description "ddd"

Products filter by using F3, filtered out products with specification "j"

```
You are now filtering the products
   [F1] Filter with a key word in the product name
   [F2] Filter with a key word in the product description
   [F3] Filter with a key word in the product specification
   [F4] Filter with a criterion on the product price
   [F5] Filter with a key word in the product category
   [B] Back
   [0] Ouit
Please enter your choice: F4
**************************
You are now filtering with a criterion on the product price
You are expected to enter two numbers as the both ends of the price range (both will be inclusive)
    [B] Back
   [Q] Quit
Please input the value of the smaller end: 	heta
Invalid input! Please input again: 5
Please input the value of the larger end: 30
PRODUCT_ID: 123, PRODUCT_NAME: Test1, DESCRIPTION: Test1, SPECIFICATION: Test1, PRICE: 10, AVAILABLE_QUANTITY: 20, CATEGORY: Testing product
The query result is printed
```

Products filter by using F4, filtered out products with price 5-30

```
*************************
You are now filtering the products
   [F1] Filter with a key word in the product name
   [F2] Filter with a key word in the product description
   [F3] Filter with a key word in the product specification
   [F5] Filter with a key word in the product category
   [B] Back
   [Q] Quit
Please enter your choice: F5
You are now filtering with a keyword on the product category
   [B] Back
   [Q] Quit
Please enter your keyword (no more than 20 characters): Testing
PRODUCT_ID: 1919, PRODUCT_NAME: abc, DESCRIPTION: cbd, SPECIFICATION: jsa, PRICE: 120, AVAILABLE_QUANTITY: 21, CATEGORY: Testing
PRODUCT_ID: 12345, PRODUCT_NAME: abc, DESCRIPTION: ddd, SPECIFICATION: eee, PRICE: 114, AVAILABLE_QUANTITY: 514, CATEGORY: Testing2
PRODUCT_ID: 123, PRODUCT_NAME: Test1, DESCRIPTION: Test1, SPECIFICATION: Test1, PRICE: 10, AVAILABLE_QUANTITY: 20, CATEGORY: Testing product
PRODUCT_ID: 1234, PRODUCT_NAME: Test2, DESCRIPTION: Testing2, SPECIFICATION: Test2, PRICE: 120, AVAILABLE_QUANTITY: 20, CATEGORY: Testing product
```

Products filter by using F5, filtered out products with category Testing

Get all products:

To print all of the products added in the OSS system, enter G1.

Then all the products' information will be printed out on the screen.

Print all products called when no products in the system

```
You are now adding a new product

[B] Back
[Q] Quit

Please enter the product ID of the new product (no more than 20 digits): 123

Please enter the product name (no more than 20 characters and only contains letters, digits and underlines): test

Please enter the product description (no more than 200 characters and only contains letters, digits and underlines): test

Please enter the product specification (no more than 200 characters and only contains letters, digits and underlines): test

Please enter the product specification (no more than 200 characters and only contains letters, digits and underlines): test

Please enter the product price (with the precision and scale of a double value): 100

Please enter the available quantity of the product (a positive integer): 20

Please enter the category of the product (no more than 20 characters): Product Testing
```

Product test and all of its information successfully printed out

2.6

Search Product

2.6.1

Search the information of a product based on product ID:

To search and print out the information of a product based on product ID, enter S1.

Successfully starting to search a product with its product ID

Then follow the instructions and the information about the product with the product ID entered will be printed out.

Notes: Since every product has its own unique product ID, every search using product ID can only print out one result.

All information about product with product ID 1919 is printed out

2.6.2

Seach the information of product based on product name

To search and print out the information of a product based on product name, enter S2.

Successfully starting to search a product with its product name

Then follow the instructions and the information about the product with the Product name entered will be printed out.

Notes: Since every product has can have same product name, every search using product name can print out more than one result.

```
*************************
You are now searching products according to a product name
   [B] Back
   [Q] Quit
Please enter the name of the product to search: abc
PRODUCT_ID: 1919,
PRODUCT_NAME: abc,
DESCRIPTION: cbd,
SPECIFICATION: jsa,
AVAILABLE_QUANTITY: 21,
CATEGORY: Testing
PRODUCT_ID: 12345,
PRODUCT_NAME: abc,
DESCRIPTION: ddd,
SPECIFICATION: eee,
PRICE: 114,
AVAILABLE_QUANTITY: 514,
CATEGORY: Testing2
The information of the product is printed
```

All information about products with product Name abc are printed out

2.7

Get all customers:

To print all of the customers added in the OSS system, enter G2.

Then all the customers' information will be printed out on the screen.

All customers and their information printed out successfully

2.8

Search the information of a customer

2.8.1

Search the information of a customer with a phone number:

To search and print out the information of a customer based on a phone number, enter S3

Successfully starting to search a customer with his/her phone number

Then follow the instructions and the information about the customer with the phone number entered will be printed out.

Notes: Since every customer has their own unique phone number, every search using phone number can only print out one result.

```
*************

You are now searching a customer according to customer phone number

[B] Back
[Q] Quit

Please enter the phone number of the customer to search: 123

PHONE_NUMBER: 123, USER_NAME: Ctest, PASSWORD: 1234, PERSONAL_INFORMATION: null, BALANCE: null

The information of the customer is printed
```

All information about customer with phone number 123 is printed out

2.8.2

Search the information of a customer:

To search and print out the information of customer based on a username, enter S4

Successfully starting to search a customer with his/her username

Then follow the instructions and the information about the customer with the username entered will be printed out.

Notes: Since every customer can have the same customer's name, every search using the customer's name can print out more than one result.

```
************

You are now searching the customer according to customer name

[B] Back
[Q] Quit

Please enter the name of the customer to search: Ctest2

PHONE_NUMBER: 01234, USER_NAME: Ctest2, PASSWORD: 1234, PERSONAL_INFORMATION: null, BALANCE: null

The information of the customer is printed
```

All information about customers with user name Ctest2 are printed out

2.9

Get all orders:

To print out all of the orders in the system, enter G3.

Then all the orders' information will be printed out on the screen.

Order and all its information all printed out successfully

2.10

Search the information of an order with an order ID

To search for the information of an order with an order ID, enter S5.

Successfully starting to search an order with its order ID

Then follow the instructions and the information about the order with the order ID entered will be printed out.

```
You are now searching order according to Order ID

[8] Back
[Q] Quit

Please enter the order ID of the order to search: 7997444984389251973

ORDER_ID: 7997444984309251973, CUSTOMER_PHONE_NUMBER: 123, PRODUCT_ID: 123, QUANTITY: 3, COST: 30, SHIPPING_ADDRESS: HK POLYU COMP
The information of the order is printed
```

All information about order with order ID 7997444984309251973 are printed out

2.11

Modify your phone number:

To modify your own phone number, enter M1.

Successfully starting to change phone number

Then follow the instructions and enter the value you want to change for your phone number. Remember that the new value for the phone number should also follow the rules when creating the new account.

Notes: You can only change to a new phone number that doesn't repeat in the past accounts (no other administrator accounts have the same phone number as the new phone number you want to change). If the new phone number you entered is repeated, the update will fail.

Phone number changed from 123456 to 1234567 for personal account

2.12

Modify your username:

To modify your own username, enter M2.

```
********************************

You are now editing your personal information

[B] Back
[Q] Quit

Are you sure you want to edit the username of your account?

PHONE_NUMBER: 1234567,
USER_NAME: User11,
PASSWORD: 98765,
PERSONAL_INFORMATION: null

Enter Y to confirm the edition, or any key to cancel:
```

Successfully starting to change user name

Then follow the instructions and enter the value you want to change for your username. Remember that the new value for username should also follow the rules when creating the new account.

Username changed from User11 to User12 for personal account

2.13

Modify your password:

To modify your own password, enter M3.

Successfully starting to change password

Then follow the instructions and enter the value you want to change for your password. Remember that the new value for password should also follow the rules when creating the new account.

Password changed from 98765 to 987654 for personal account

2.14

Modify your personal information:

To modify your own personal information, enter M4.

```
*************************************

You are now editing your personal information

[B] Back
[Q] Quit

Are you sure you want to edit the personal information of your account?

PHONE_NUMBER: 1234567,
USER_NAME: User12,
PASSWORD: 987654,
PERSONAL_INFORMATION: null

Enter Y to confirm the edition, or any key to cancel:
```

Successfully starting to change personal information

Then follow the instructions and enter the value you want to change for your personal information.

Note: For all new created administrator and customer accounts, the personal information is initially set as null, if an administrator or a customer wants to add something to their personal information in their own account, they can use this M5 function to add or change.

Personal Information changed from null to "I am Van" for personal account

2.15

Get all shopping cart information:

To get all the products information in the shopping cart, enter G4.

Then all the all the products information in the shopping cart will be printed out on the screen.

Products in the shopping cart and all its information all printed out successfully

2.16

Search shopping cart information

2.16.1

Search shopping cart information with a product ID:

To search and print out the information of shopping carts based on a product ID, enter S6

Successfully starting to search shopping cart information with product ID

Then follow the instructions and the information about the shopping cart with the product ID entered will be printed out.

```
*************

You are now searching shopping cart according to product ID

[B] Back
[Q] Quit

Please enter the product ID of product included in the shopping cart to search: 123

CUSTOMER_PHONE_NUMBER: 123, PRODUCT_ID: 123, PRODUCT_NAME: Test1, QUANTITY: 3, SINGLE_PRICE: 10, TOTAL_PRICE: 30

The information of the shopping cart is printed
```

2.16.2

Search shopping cart information with a product name:

To search and print out the information of shopping carts based on a product name, enter S7

Successfully starting to search shopping cart information with product name

Then follow the instructions and the information about the shopping cart with the product name entered will be printed out.

```
*************
You are now searching shopping cart according to product name

[B] Back
[Q] Quit

Please enter the product name of product included in the shopping cart to search: Test1

CUSTOMER_PHONE_NUMBER: 123, PRODUCT_ID: 123, PRODUCT_NAME: Test1, QUANTITY: 3, SINGLE_PRICE: 10, TOTAL_PRICE: 30

The information of the shopping cart is printed
```

All information about order with product name "Test1" are printed out

2.16.3

Search shopping cart information with a user phone number:

To search and print out the information of shopping carts based on a user phone number, enter S8

Successfully starting to search shopping cart information with its user phone number

Then follow the instructions and the information about the shopping cart with the user phone number entered will be printed out.

Notes: Because every phone number is unique for every user, only one result will be printed out which is the shopping cart of the user with the certain phone number entered.

```
************

You are now searching shopping cart according to user phone number

[B] Back
[Q] Quit

Please enter the user phone number included in the shopping cart to search: 123

CUSTOMER_PHONE_NUMBER: 123, PRODUCT_ID: 123, PRODUCT_NAME: Test1, QUANTITY: 3, SINGLE_PRICE: 10, TOTAL_PRICE: 30

The information of the shopping cart is printed
```

All information about order with user phone number 123 is printed out

2.17

Generate analysis report:

To generate an analysis report, enter G5, the user is supposed to enter a valid file path for the system to write. If the file path is not accessible, the system will deny the request. After entering the file path, you can see and refer to the analysis of the overall condition of the online shopping system.

In some cases, the system will provide corresponding suggestions on the basis of its evaluation of the information.

Successfully starting to store the analysis report

Then the analysis report for the whole system will be generated and printed out. Then, administrators are able to make relevant adjustments on their marketing strategies.

```
The total number of all registered customers: 1

The total number of all products: 6

The total number of all orders: 3

The 10 most popular products:

Rank: 1, Product ID: 10, Product Name: MILKIEA
Rank: 2, Product ID: 2, Product Name: BREAD

You can provide sales on these products!

The 10 least popular product:

Rank (Last): 1, Product ID: 2, Product Name: BREAD
Rank (Last): 2, Product ID: 10, Product Name: MILKIEA

You can adjust the prices of these products!

Analysis about customer balances and product prices:

Balance mean: 10178.0
Balance median: 10178.0
Balance min: 10178.0
Balance min: 10178.0
Balance max: 10178.0

Price mean: 2.6666667

Price mean: 2.59555557

Price variance: 1.5555557

Price min: 1.0

Price max: 5.0

According to the statistics, it is beneficial if the price of the expensive products can be deducted.
```

All information for the analysis report is stored in file

2.18

To log out the account and return login and register session, enter L. To quit the whole system, enter Q.

Part 3

Functions for users that logged in as a customer

As a customer, the user can use the following functions.

```
Welcome, dear customer!
Below shows you the operations you can do
    [A1] Add a product to your shopping cart
    [A2] Adjust the quantity of the product in the shopping cart
    [D] Delete a product in your shopping cart
    [P] Preset your shipping addresses
    [F] Filter products
    [G] Get all products
    [S1] Search a product with a product ID
    [S2] Search products with a product name
    [M1] Modify your phone number
    [M2] Modify your user name
    [M3] Modify your password
    [M4] Modify your personal information
    [M5] Modify your shipping addresses
    [C] Checkout for your shopping cart
    [I] Inspect your shopping cart
    [R] Review your previous order
    [T] Top up your account
    [L] Log out
    [Q] Quit
Please enter your choice:
```

Picture of the functions a customer can use

3.1

Add a product to shopping cart:

To add a product to your own shopping cart, enter A1.

Successfully starting to add a new product to shopping cart

Then follow the instructions and rules to add a new product to your shopping cart

Notes: Please be reminded that a customer can only add products that exist, and the added number of products must be smaller or equal to the available quantity. Also, as one product only has one unique product ID, so using this function, the user can only add one kind of product in one execution. At the same time, as each product has an available quantity, so when a product has been sold to others, its available quantity will reduce and when it reduces to 0, no more products can be added to the shopping cart.

Another note is that when a customer tries to add a product that is already in his/her shopping cart, the system will detect this case and ask the customer to modify the quantity of that product in the shopping cart.

(this shows the scenario that a customer tries to add a repeated product to the shopping cart)

3.2

Delete a product in shopping cart:

To delete a product in your shopping cart, enter D.

Successfully starting to delete an existing product in shopping cart

Then follow the instructions and rules to delete an existing product in your shopping cart

Notes: You cannot add a product that doesn't exist in your shopping cart and you can only delete one kind of product in one execution, you can choose to continue after the first removing while one removing will remove all of the product in the shopping cart (added 1 or 10 will all be removed) with that product ID entered.

Another note is that when a customer tries to delete a product that does not exist in the shopping cart, the system will detect this case and give prompts.

Successfully deleted all products with product ID 123 in shopping cart

(rejected the operation of deleting a product that doesn't exist in the shopping cart)

3.3

Filter products:

To filter out products based on some conditions, enter F.

Successfully started to print out filtered products

Then the functions and methods will be the same as 2.4 in the user guide. Please check above

3.4

Checkout for your shopping cart:

To checkout for your shopping cart, enter C.

```
************************************

You are now checking out for your shopping cart

[B] Back
[Q] Quit

If you don't want to quit or go back, press any key except B and Q.
```

Successfully starting to check out for existing product in shopping cart

Then following the instructions, you can choose to proceed to payment or not and also add or delete products in your shopping cart, if not, you will check out with the payment printed on the screen. You can also change your shipping address if it doesn't fit your requirements in your first fill-in.

Notes: If you don't have enough money in your account, you can choose to top up your account during the paying process and pay again or top up outside the checkout function. If you have enough money for the order in your account, you can then process the payment and shipping address filling session. At the same time, as each product has an available quantity, so when a product has been sold to others, its available quantity will reduce and when it reduces to 0, no more products can be checked out if others had bought the product before you do.

```
You are now checking out for your shopping cart
    [B] Back
    [Q] Quit
If you don't want to quit or go back, press any key except B and Q:
The total amount of money you need to pay is 30.0
Do you want to proceed to make your payment?
   [Y] Yes
    [B] Back
Please enter your choice: Y
Before you pay, please check whether these items are what you want to purchase.
Here is the information of your shopping cart.
PRODUCT_ID: 123, PRODUCT_NAME: Test1, QUANTITY: 3, SINGLE_PRICE: 10.0, TOTAL_PRICE: 30.0
Now, would you make any changes before you pay?
   [A] Add a product to your shopping cart.
   [D] Delete a product from your shopping cart
    [N] No, I am ready to check out.
Please enter your choice: N
```

```
Please set your shipping address: HK POLYU
Your shipping address has been successfully set.
Do you want to change the address?

[Y] Yes

[N] No

Please enter your choice: Y

You are now changing your shipping address
The previous address is HK POLYU
Please enter a new address: HK POLYU COMP

The transaction is successful!
Your balance has now become60.0

Here are the details of your order

ORDER_ID: 7997444984309251973, PRODUCT_ID: 123, QUANTITY: 3, COST: 30.0, SHIPPING_ADDRESS: HK POLYU COMP

Your shopping cart has been cleared
```

Successfully checked out for existing product and filling in shopping address in shopping cart

3.5

Get all products:

To get the information for all the products in the OSS system, enter G; The function has the same use as function 2.5 above in the user guide.

3.6

Search Product:

To search for a product according to product ID, enter S1.

To search for a product according to a product name, enter S2.

This function works the same as user guide 2.6 above.

Adjust the quantity of the product in the shopping cart:

To add or delete the number of products in your shopping cart, enter A2.

Successfully starting to adjust quantity for existing product in shopping cart

Then follow the instructions to change the product and the quantity you want to change.

Quantity for product 1234 has successfully changed from 5 to 10

3.8

Modify your phone number:

To modify your own phone number, enter M1.

Successfully starting to change phone number

Then follow the instructions and enter the value you want to change for your phone number. Remember that the new value for the phone number should also follow the rules when creating the new account.

Notes: You can only change to a new phone number that doesn't repeat in the past accounts (no other customer accounts have the same phone number as the new phone number you want to change). If the new phone number you entered is repeated, the update will fail.

Phone number changed from 123456 to 1234567 for personal account

Modify your username:

To modify your own username, enter M2.

```
**************************

You are now editing your personal information

[B] Back
[Q] Quit

Are you sure you want to edit the username of your account?

PHONE_NUMBER: 1234567,
USER_NAME: User11,
PASSWORD: 98765,
PERSONAL_INFORMATION: null

Enter Y to confirm the edition, or any key to cancel:
```

Successfully starting to change user name

Then follow the instructions and enter the value you want to change for your username. Remember that the new value for username should also follow the rules when creating the new account.

Username changed from User11 to User12 for personal account

3.10

Modify your password:

To modify your own password, enter M3.

Successfully starting to change password

Then follow the instructions and enter the value you want to change for your password. Remember that the new value for password should also follow the rules when creating the new account.

Password changed from 98765 to 987654 for personal account

3.11

Modify your personal information:

To modify your own personal information, enter M4.

Successfully starting to change personal information

Then follow the instructions and enter the value you want to change for your personal information.

Note: For all new created administrator and customer accounts, the personal information is initially set as null, if an administrator or a customer wants to add something to their personal information in their own account, they can use this M5 function to add or change.

Personal Information changed from null to "I am Van" for personal account

3.12

Top up account:

To top up money into your account, enter T.

Successfully starting to top up for an account

Then follow the instructions and rules to top up a certain amount of money for your account.

Notes: You can only top up a double value for your account, no character is allowed to be entered or it will print an invalid input and enter again.

Successfully top up 100 for account

3.13

Review for an order:

To review, score your shopping experience and submit comments on an order you have paid for, enter R.

Successfully starting to review for an order

Then follow the instructions and submit the comments you have for a past paid order.

Notes: Please be reminded that this function is only for orders you have paid for under this system, if you have not bought anything, you can't review any order.

Successfully replying comment "Good products, buy again next time" for order with order ID

3.14

Inspect (Print) shopping cart:

To print out the information for your shopping cart now, enter I.

Then all the products information in your shopping cart will be printed out.

Successfully printed the information for your shopping cart printed out

3.15

To preset shipping addresses, press P.

Then follow the instructions to enter corresponding keys and values.

Briefly speaking, there are in total four scenarios when you use this function.
1) no address preset; 2) 1 address preset; 3) 2 addresses preset 4) 3
addresses preset

(this picture shows that when you have already preset 3 addresses, you cannot preset any more.)

```
Please enter your choice: P
You are now presetting your shipping address.
   [B] Back
   [Q] Quit
If you don't want to quit or go back, press any key except B and Q:
You haven't preset any shipping address. Do you want to set it now ?
   [B] Back
   [Q] Quit
   [Any other key] Yes
If you don't want to quit or go back, press any key except B and Q:
You can preset up to 3 shipping addresses
Now, please input your first address: address A
Your first shipping address has been successfully set
Do you want to continue to set your second address?
If you don't want to quit or go back, press any key except B and Q:
```

(this picture shows the scenario that no address is preset)

3.16

To modify addresses that were preset, press M5.

Then follow the instructions to enter corresponding keys and values.

```
Please enter a new address for your first address: PolyU P core
The first address has been successfully modified.

If you don't want to quit or go back, press any key except B and Q:

Please enter a new address for your second address: PolyU Q core
The second address has been successfully modified.

If you don't want to quit or go back, press any key except B and Q:

Please enter a new address for your third address: PolyU Y core
The third address has been successfully modified

[B] Back
[Q] Quit

Please enter your choice:
```

(please note that if you already preset 3 addresses, you will be asked to go back to the user panel or quit the system as no more address can be preset.)

3.17

To log out the account and return login and register session, enter L.

e, feel