

## User Manual

### What is it?

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This is an e-commerce system which allows customers to login to the system, perform some shopping operations like purchasing products, viewing order history and showing user consumption reports. The application will feature multiple user roles including admin and other users, each with varying levels of access to different operations.

### How to run?

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1. Run the main.py file to start the application
2. The main menu will then be prompted for the user to input their options, once logged in, the menu will be displayed accordingly based on the user's roles.

- a. Input "1" to login as an **ADMIN** user

Admin username: **admin**

Admin password: **admin**

When see the message "Welcome admin!" -> login success

\* If input login details don't match/don't exist, an error message will inform the user "username or password incorrect"

- i. Input "1" to show all the products

1. The system will ask you to input the page number
      2. Enter page number (e.g. "1"), all products in the selected page will be printed
      3. Enter page number (e.g. "234523452") with no data stored, a message will print out the current page number and the total page
      4. Enter invalid page number (e.g. "ew"), an error prompt "Please enter a integer! Please enter again!"

```
Please select: 2
Enter customers information: 2 users pass1 user@gmail.com 0451953838
Successfully add a new customer!
Press Enter to continue...
```

- ii. Input "2" to add customers

1. Firstly input 2 when see prompt "Please select: "
        2. Enter the customers information with the format as shown in the figure above
        3. When see the message "Successfully add a new customer!", the customer was successfully added
        4. Press enter to continue
        5. If input invalid number, error messages display

- iii. Input "3" to show all customers

1. Enter page number (e.g. "1"), all customers in the selected page will be printed
        2. Enter page number (e.g. "234523452") with no data stored, a message will print out the current page number and the total page
        3. Enter invalid page number (e.g. "ew"), an error prompt "Please enter a integer! Please enter again!"

- iv. Input "4" to show orders

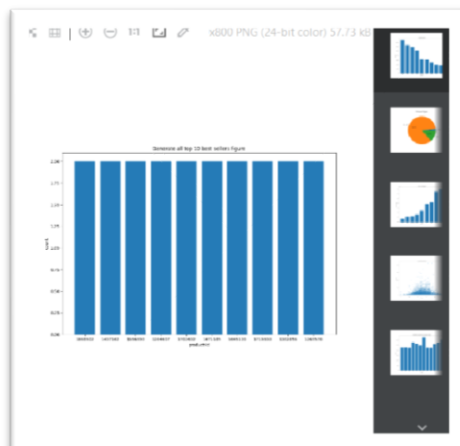
1. Firstly input 4

2. Enter customer id
  3. Enter page number
  4. If all inputs are valid and exist in the system, all the orders belong to this user will be printed
  5. Otherwise, error messages prompt
- v. **Input “5” to generate test data (\*prior to run other functions, please run this function by inputting “5” to generate test data OR use the system to generate more data )**

```
Please select: 5
Finish extracting products from files!
Finish generate customers and orders!
Finish adding admin!
Finish generating all test data!
Press Enter to continue...
```

1. It will take a while to generate test data
  2. To check the data generated, go to the data/product folders
- vi. Input “6” to generate statistical figures

```
Please select: 6
Category figure saved!
Discount figure saved!
Likes count figure saved!
Discount likes count figure saved!
All customers consumption figure saved!
All top 10 best sellers figure saved!
Finish generating all statistical figures!
Press Enter to continue...
```



- vii. Input “7” to delete all data

```
Please select: 7
Finish deleting all customers!
Finish deleting all products!
Finish deleting all orders!
Finish deleting all data!
Press Enter to continue...
```

- viii. Input “8” to delete customer using customer id
  - 1. Input customer id -> if the customer id is valid and is storing in the system, a message will prompt: “Successfully delete customer whose id is '[valid\_customer\_id]'!”
  - 2. Input admin id u\_1522652986 : error message “Error in CustomerOperation.delete\_customer: Admin accounts cannot be deleted!”
- ix. Input “9” to delete order using order id
  - 1. Input order id -> if the order id is valid and is storing in the system, a message will prompt: “Successfully delete the '[valid\_order\_id]' order!”
  - 2. Input invalid order id, an error message will display “No such order, which id is '[invalid\_order\_id]'”.
- x. Input “10” to delete product using product id
  - 1. Input product id -> if the product id is valid and is storing in the system, a message will prompt: “Successfully delete the '[valid\_product\_id]' product!”
  - 2. Input invalid product id -> Error message “No such product, which id is '[invalid\_product\_id]'”.
- xi. Input “11” to logout
- xii. Press enter to continue
- b. Input “1” to login as a **CUSTOMER** user (need to register with the example test data first! See section c)
  - Example customer username: **usersha**
  - Example customer username: **pass2**
  - Example email: **usersha@gmail.com**
  - Example mobile: **0492837191**
  - i. Input “1” to show profile (including all user information)

```
Please select: 2
The attribute names include 'user_name', 'user_password', 'user_email', 'user_mobile'
Enter the attribute name: user name
Enter the updated value: usershah
Successfully update profile!
```

- ii. Input “2” update profile
  - 1. Enter attribute name (The attribute names include 'user name', 'user password', 'user email', 'user mobile') **\*Note:** when input the attribute, please **DO NOT** include the underscore “\_”, for example, only type in “user name”. Otherwise, the system will return error message. Inputting other invalid attributes will also cause the same error.

```
Error in CustomerOperation.update_profile: Attribute names do not include 'user_password'!
```

2. Enter the selected attribute name (e.g. user name) to update the user name (need to input valid user name!)
3. Press enter to continue
- iii. Input “3” to show products
  1. A message will ask the user to enter keyword, the input format should be “3 [keyword]”, all the products with the keyword will be printed out as shown in this figure.

```
Please select: 3
Enter keyword: 3 Masque
{'pro_id': '1654953', 'pro_model': 'SKUE76490', 'pro_category': 'accessories'
{'pro_id': '1668210', 'pro_model': 'SKUE94427', 'pro_category': 'accessories'
{'pro_id': '1676041', 'pro_model': 'SKUF09796', 'pro_category': 'accessories'
{'pro_id': '1676042', 'pro_model': 'SKUF09707', 'pro_category': 'accessories'
{'pro_id': '1668209', 'pro_model': 'SKUE94426', 'pro_category': 'accessories'
```

2. If keyword not found: message -> “Nothing found. Try a different search.”
3. If keyword is invalid “e.g. 3 only”: error message: Invalid input! The keyword is null
- iv. Input “4” to show history orders
  1. Enter valid page number “e.g. 1” to print all the history orders
  2. If input page order is out of range, the message will display the current page and the total page
- v. Input “5” to generate all consumption figures
  1. Similar to the generate figure functions before, figures will be generated automatically when input 5
- vi. Input “6” to get product using product id
  1. Input product id -> if the product id is valid and is storing in the system, all the information will be printed
  2. Input invalid product id -> error message
- vii. Input “7” to logout
- viii. Press enter to continue
- c. Input “2” to register (admin can’t register)

```
***** MAIN MENU *****
(1). Login
(2). Register
(3). Quit
Please select: 2
Enter username: usersha
Enter password: pass2
Enter email: usersha@gmail.com
Enter mobile: 0492837191
Successfully register! Please login!
Press Enter to continue...
```

Example customer username: **usersha**

Example customer username: **pass2**

Example email: **usersha@gmail.com**

Example mobile: **0492837191**

- i. Press enter to continue
- ii. Then can use the information to login
- iii. If username exists, error message will display (same as invalid inputs):

```
Please select: 2
Enter username: usersha
Enter password: usersha
Enter email: usersha@gmail.com
Enter mobile: 0492837191
Error in CustomerOperation.register_customer: Invalid username or the username exists!
Press Enter to continue...
```

- iv. When registering, please check the followings:
  1. The user name should only contain letters or underscores, and its length should be at least 5 characters
  2. The password should contain at least one letter (this letter can be either uppercase or lowercase) and one number. The length of the password must be greater than or equal to 5 characters.
  3. An email address consists of four parts: ● Username: The part of the email address before the @ symbol. ● @ symbol: Separates the username and domain name. ● Domain name: Refers to the mail server that stores or routes the email. ● Dot (.): Separates a portion of the address from the domain name.
  4. The mobile number should be exactly 10 digits long, consisting only of numbers, and starting with either '04' or '03'.
- d. Input "3" to **QUIT** the programme