

E-Commerce System

Welcome to E-Commerce System, this PDF file will show you how to use our application.

System Requirements:

- JDK SE 22+
- A terminal for input/output interactions .
- Required data folder (data/users.txt, data/products.txt, data/orders.txt, data/figure/) to be available, and the folder must be located on the same level as the src folder used to hold and run the code.

I. Launching the application

Running the main class:

Main.java

After run it the application menu will appear the application menu like this

=====E-Commerce System =====

(1) Login

(2) Register

(3) Quit

Login: Enter your username and password.

- If you are an admin, it will appear Admin menu.
- If you are a customer, it will appear Customer menu.

Register: Customer will be asked to provide information to create new account

- Username: Must be at least 5 characters (letters or underscores only).
- Password: Can choose how many characters you want (letters or numbers is acceptable).
- Email: Must follow a standard email format ([username@domain.extension](#)).
- Mobile: Must be exactly 10 digits and start with 04 or 03.

Quit: Exit the program.

II. Menus

===== Admin Menu=====

- (1) Show products
- (2) Add customers
- (3) Show customers
- (4) Show orders
- (5) Generate test data (generate sample orders)
- (6) Generate all statistical figures
- (7) Delete all data
- (8) Logout

1. Show Products: Display all products with pagination.

2. Add Customers: Register new customers.

3. Show Customers: Display customers' records with pagination.

4. Show Orders: Display order records with pagination.

5. Generate Test Data: Generate some example orders and store them in the file located at data/orders.txt.

6. Generate Statistical Figures: Create figures related to orders and products as a chart and store them as .png file located at data/figure/

7. Delete All Data: Delete all customers, products, and orders data.

8. Logout: Returns to the main menu.

===== Customer Menu=====

- (1) Show profile
- (2) Update profile
- (3) Show products
- (4) Show history orders
- (5) Generate all consumption figures
- (6) Logout

1. Show Profile: Displays user account details.

2. Update Profile: Allows modification of: Username, Password, Email, Mobile number. After choosing this option, type 'username', 'user_password', 'user_email', or 'user_mobile' to specify which attribute you want to update. And then enter the new value that you want to replace with the previous one.

3. Show Products: View the product catalog.

4. Show History Orders: Displays order's history

5. Generate All Consumption Figures: Create figures related to orders as a chart and store them as .png file located at data/figure/

6. Logout: Returns to the main menu.

III. Storage file

The system saves user, product, and order data in structured files.

- Users: data/users.txt
- Products: data/products.txt
- Orders: data/orders.txt

- Figures: data/figure

Please check if these files and folders exist before running the program

IV. Problems you may encounter

When you run the application, you may encounter these problems:

Old JDK Version (e.g: Java SE 17)

```
PS C:\Users\Admin\Downloads\lab8\oop-assignment3-main> & 'C:\Program Files\Java\jdk-17\bin\java.exe' '@C:\Users\Admin\AppData\Local\Temp\cp_6xe8m2zog2
'Main.Main'
Admin account already exists.
Working Directory = C:\Users\Admin\Downloads\lab8\oop-assignment3-main\assignment\data\users.txt
Exception in thread "main" java.lang.UnsupportedClassVersionError: javafx/application/Platform has been compiled by a more recent version of the Java
ion 66.0), this version of the Java Runtime only recognizes class file versions up to 61.0
    at java.base/java.lang.ClassLoader.defineClass1(Native Method)
    at java.base/java.lang.ClassLoader.defineClass(ClassLoader.java:1017)
    at java.base/java.security.SecureClassLoader.defineClass(SecureClassLoader.java:150)
    at java.base/jdk.internal.loader.BuiltinClassLoader.defineClass(BuiltinClassLoader.java:862)
    at java.base/jdk.internal.loader.BuiltinClassLoader.findClassOnClassPathOrNull(BuiltinClassLoader.java:760)
    at java.base/jdk.internal.loader.BuiltinClassLoader.loadClassOrNull(BuiltinClassLoader.java:681)
    at java.base/jdk.internal.loader.BuiltinClassLoader.loadClass(BuiltinClassLoader.java:639)
```

Although the system requires JDK 22 or higher, you might still encounter issues. If that happens, ensure you're using JDK 22+ and, if you've already installed it but the application still doesn't run, try removing any older JDK versions — that should resolve the problem.

Register problem

```
Enter your choice: 2
Enter username: adas
Enter password: 1
Enter email: sdau@dasida.sa
Enter mobile number: 012345678
[Error] Registration: Registration failed. Username may already exist or data format is incorrect.
===== E-Commerce System =====
```

You might encounter issues during registration. Make sure your username has at least 5 characters, your email follows the standard format (username@domain.extension), and your mobile number is exactly 10 digits long, starting with 03 or 04. Be sure to count all 10 digits, including the first two.

V. Closing note

This system enables efficient management of users, products, and orders, while providing customers with a way to interact with the e-commerce database.

GitHub link: <https://github.com/zodideac/oop-assignment3>