

VIETNAM NATIONAL UNIVERSITY OF HO CHI MINH CITY  
THE INTERNATIONAL UNIVERSITY SCHOOL OF  
COMPUTER SCIENCE AND ENGINEERING



“E-Commerce System User Manual”

OBJECT-ORIENTED PROGRAMMING

GROUP 4 - OOP Assignment

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|----|-------------------|-------------|
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# 1. Introduction

This document provides instructions for using the E-Commerce System developed for OOP Assignment 3. The system supports:

**Customer functions:** Registration, product browsing, order placement, profile management.

**Admin functions:** User/product/order management, data analysis, and report generation.

## 2. System Requirements

- Java SE 17 or higher
- JavaFX for referenced libraries

## 3. Installation and Execution

1. Extract ass3\_ITITDK23004.zip
2. Compile and run the program:
3. Default Admin Account (for testing):
  - Username: admin
  - Password: admin123

## 4. User Guide

### 4.1. Login Menu

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

1. Login
2. Register
3. Quit

**Login (Option 1):** Enter username and password (e.g., admin admin123).

**Register (Option 2):** Follow prompts to input:

- Username ( $\geq 5$  chars, letters/underscores only).
- Password ( $\geq 5$  chars, 1 letter + 1 number).
- Email (valid format, e.g., user@example.com).
- Mobile (10 digits, starts with 04 or 03).

**Quit (Option 3):** Exits the program.

## 4.2. Admin Menu

After logging in as admin:

```
===== Admin Menu =====  
1. Show products  
2. Add customers  
3. Show customers  
4. Show orders  
5. Generate test data  
6. Generate all statistical figures  
7. Delete all data  
8. Logout
```

Key Functions:

### Show Products (Option 1):

- Displays paginated product list. Use n (next page), p (previous), or b (back).
- Example output:

```
{"pro_id":"p001", "pro_name":"iPhone X", "pro_price":699.99}  
{"pro_id":"p002", "pro_name":"Galaxy S21", "pro_price":749.99}
```

- Add Customers (Option 2): Manually register new customers.
- Generate Figures (Option 6): Creates charts in data/figure/ (e.g., discount\_pie\_chart.png).

## 4.3. Customer Menu

After logging in as customer:

```
===== Customer Menu =====  
1. Show profile  
2. Update profile  
3. Show products [keyword]  
4. Show order history  
5. Generate consumption figures  
6. Logout
```

Key Functions:

- Show Products (Option 3):  
*Search with keywords: Enter 3 laptop to filter products.*
- Place Order: Select a product ID from the list to checkout.
- Consumption Figures (Option 5): Generates monthly spending reports.

## 5. Troubleshooting

### Input Error

### System Response

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#### Username:

- 
- |                     |                                                                     |
|---------------------|---------------------------------------------------------------------|
| - Contains spaces   | "Error: Username must contain only letters/underscores (no spaces)" |
| - Less than 5 chars | "Error: Username must be $\geq 5$ characters"                       |
| - Already exists    | "Error: Username already taken"                                     |
- 

#### Password:

- 
- |                     |                                                |
|---------------------|------------------------------------------------|
| - No numbers        | "Error: Password must contain $\geq 1$ number" |
| - Less than 5 chars | "Error: Username must be $\geq 5$ characters"  |
| - Already exists    | "Error: Username already taken"                |
- 

#### Email:

- 
- |               |                                                       |
|---------------|-------------------------------------------------------|
| - Missing "@" | "Error: Invalid email format (e.g., user@domain.com)" |
|---------------|-------------------------------------------------------|
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