

Criterion E: Evaluation

I. Success evaluation

All comments, consultations, and quotes from client mentioned are in the **Appendix III**, part 1:

Success Criteria	Satisfactory Level (1=lowest, 5=highest)	Evaluation
The users are able to log in using a personal username and password to access the application	5	Registration and login process is simple and successful.
The program is able to auto-update the quantity of the corresponding products in the Storage table after an order is created with that products	5	Client: This is really convenient to keep track of the number of available items.
The program can access a local database with multiple tables in order to update and monitor the application	5	The database is successfully connected.
The application will have a feature to keep track of the actions that happened in the application, including adding, removing orders or items, creating new accounts, and deleting orders,...	4	This feature is helpful to know the activities that happened in the application. Yet, adding a feature to record the time that action happened or which users did it will be more complete.
The users will be able to use queries to manipulate the database such as adding or removing orders and items, and changing the status of the orders, ...	5	All queries are working really well and effectively, and every updated information is correct.
The program is capable of doing simple revenue calculations	3	It helped to keep track of the revenue. However, it is still limited to only calculating them in a few sorting criteria (prepared, shipping, received, or all of the orders). The calculation method should be applicable for more sorting criteria.
The program can sort through the database to find a specific or group	3	This sorting method only can find the exact value. The client wanted it to

of orders/items information and display those orders/items		be more flexible. For example, finding shoes with sizes between 11.5 and 13.
The program will be able to notify users if there are errors, such as blank text fields, wrong passwords,...	5	The JOptionPane appears whenever the users do something wrongly and informs the exact error.
The users can be able to delete all the data at the beginning of the month or whenever they want by clicking a button	4	The query for this works perfectly. But the client also wanted a restore method to restore the memory whenever I need it.
The users can be able to send feedback to the developers by sending emails to the developers	5	The feedback is sent to the assigned email perfectly.
The password inserted into the program's database will be hashed to ensure the security of the application	5	The passwords are encrypted and secured in the database.

II. Overall assessment

The application has been checked multiple times by me before giving to the client to have his first experience. He remarked that the user interface is good and easy to understand, he said "The interface is user-friendly and easy to use.". Most noticeably, it met his need in providing a more convenient way to manage his schoolwork and business. Moreover, he also mentioned "This application is useful not only with my shoes business but also with other types of businesses. I for sure will use this application in the future to manage my other future business. Hope you can make great updates with it.".

III. Future developments

Further improvements in functionality and features were addressed at the meeting and are being proposed by both myself and the client (**Appendix III**, part 1).

A. Functionality

1. Sorting algorithm

As stated in the success evaluation, the sorting algorithm is not flexible, it only allows users to find the products with the exact numeric parameters. Adding a range of findings will be more

flexible for the user while finding the perfect shoes for the customers. This can be achieved by utilizing GUI components other than jTextField for searching and better sorting query and/or algorithm to sort.

2. Calculation revenue algorithm

The client mentioned that the calculation revenue only limits him to calculate the revenue for the criterion of status (preparing, shipping, received). However, it is better if the application is able to calculate the revenue base on many criteria. For example, calculating the revenue of every Nike shoes sold. This can be achieved by having a more extensive categorization for each shoes through GUI.

B. Features

1. Recording time of history

The client told me that a new feature in the History GUI that allows him to see when actions occurred will be quite useful for him to manage. This should be accomplished by including a live, real-time clock in the system, and any actions that occur should be logged and displayed in the History GUI.

2. Restore the database

It is given as a success criterion that the user should be able to refresh the memory whenever he wants. Yet, he also suggested I add a new feature to restore the database whenever he wanted. This means that before deleting, the data will be saved in a separate database that can be accessed at any time from the system.

3. Embedded instructions

These features should be included to make the program more user-friendly. When the mouse hovers over an icon, an instruction appears that explains what functions are contained in this window, which can be accomplished by using a more complicated GUI. This will make the application more usable for new users.

4. Order more than 3 items

In the AddOrder class, it only allows users to create new orders with 3 items maximum. This is made since most of my client's customers are students and barely anyone purchases more than 3

pairs of shoes. However, for future business, the limit of items should be increased for the convenience of managing.

Word count: 478