Criterion A: Planning

Problem Statement

My client, my mother, does real estate freelancing and has problems organizing the data she has for each of her clients.

Description of scenario

My client, a real estate freelance has many properties and clients, she needs a database to organize the different properties and her clients. [1] The database should store the client's name, the property, address, price, and the client's email address. [2] It should also allow the client to send emails to her clients on the database as well. This will help minimize the time she has to scramble through all the data from different platforms.

The rationale for the proposed product

Creating a program to store the client's data will allow the client to store the data and information she needs as well as search up the different information associated with her different clients of hers.

The code that will be used is Object Oriented Programming in Java on NetBeans because it is the language taught in the IB Computer Science class. Furthermore, a GUI and the NetBeans IDE will be used to create a database. The Java Virtual Machine will allow the user to be able to install the program on to her laptop, specifically, a MacBook pro.

Success Criteria

With the discussion I had with my client about the functionality of the program, the success criteria are determined as follows:

1. The client must be able to enter vital information into the program, consisting of: [3]
   a. Client's name
   b. Address
   c. The property
   d. Client's email address
   e. Price of the property
2. There must be a display table showing the information placed in the program [4]
   a. With new properties, there must be a button to refresh the table and refresh the data stored within the table
3. The client must be able to search up the data entered from the client's name [5]
   a. There must be a search bar
   b. A table like a format, displaying the data after it has been searched up

---

[1] Oraphan Assamongkol, interviewed by Kanyarak Tuangsitthisombat, December 18, 2021, transcribed, Appendix A
[2] Oraphan Assamongkol, interviewed by Kanyarak Tuangsitthisombat, December 18, 2021, transcribed, Appendix A
[3] Oraphan Assamongkol, interviewed by Kanyarak Tuangsitthisombat, December 18, 2021, transcribed, Appendix A
[4] Oraphan Assamongkol, interviewed by Kanyarak Tuangsitthisombat, December 18, 2021, transcribed, Appendix A
[5] Oraphan Assamongkol, interviewed by Kanyarak Tuangsitthisombat, December 18, 2021, transcribed, Appendix A

4. There must be a function that allows the client to email her clients on the database directly [6]
5. The program must be visually appealing as well as easy to use [7]
6. If possible, the program should have a cropping feature [8]
   a. She'd also ideally like a program to help her crop photo because she needs a lot of photos to advertise her properties and those photos need to be fitted into a certain measurement to be published on websites. However, those photos will have to be cropped in a way that doesn't distort them or take the important components in the picture such as the furniture. [9]

[6] Oraphan Assamongkol, interviewed by Kanyarak Tuangsitthisombat, December 18, 2021, transcribed, Appendix A

[7] Oraphan Assamongkol, interviewed by Kanyarak Tuangsitthisombat, December 18, 2021, transcribed, Appendix A

[8] Oraphan Assamongkol, interviewed by Kanyarak Tuangsitthisombat, December 18, 2021, transcribed, Appendix A

[9] Oraphan Assamongkol, interviewed by Kanyarak Tuangsitthisombat, December 18, 2021, transcribed, Appendix A