

Word Count:

Criterion A - Planning

Problem Statement

Mr. Hemsley and Ms. Hemsely are having trouble organizing client information and communicating with them efficiently as personal trainers.

Word Count: 19

Description of Scenario

My client is a personal trainer who works alongside his wife, and owns his own private gym¹. He currently offers both real life training and a virtual Zoom session². Due to this, they are in need of an all-in-one database in order to effectively manage their job information specifically regarding client's names, payment and session status, and contacting multiple groups of clients at a time via mail³.

Word Count: 67

Rationale of Proposed Product

Creating a computerized program allows the client to store and extract information, thereby preventing the loss of physical documents and decreasing the amount of

¹ Tony Hemsley, interview by author, Bangkok, January 13, 2022, Interview #1

² Tony Hemsley, interview by author, Bangkok, January 13, 2022, Interview #1

³ Tony Hemsley, interview by author, Bangkok, January 13, 2022, Interview #1

manual work required. The development and use of a stand alone program, enforces the organization of information to be managed in one unified place.

Utilizing a GUI on Netbeans, a program freely available for developers, enables me to make a user-friendly, straightforward database using their existing features. Thus, my focus can stay primarily on making sure my client has everything they need to manage their information. Moreover, Netbeans being an IDE (integrated development environment) indicates the availability of a code editor, compiler, and debugger all incorporated in one, which enhances my productivity as a developer. Java is my chosen language to program and develop my GUI as it is my most fluent programming language. On the other hand, I utilized SQLite for my database in order to store and save data online effectively. The language chosen (SQLite), allows for a substantial amount of data to be stored in one place. On top of that, it offers the option to have multiple users read and modify the data at the same time, making it easy for both Mr. Hemsley and his wife access the data as they train clients separately. Databases are searchable and sortable, Meaning all the data can be found quickly and easily.

As Java is an object-oriented programming language, it allows me to use encapsulation for increased reliability, polymorphism for classes to be reused, and inheritance for better organization, making it time-effective. Lastly, platform independence which is enabled through Java Virtual Machine allows it to be installed in any OS, so my client can run this program on his windows 10 laptop as well as his wife's windows 7 PC.

Word Count: 296

Success Criteria

Having discussed with my client, I have come up with what this program will be able to accomplish if it is successful:

- Input information of new clients
- Send emails to clients, being able to alter the subject, body, and recipients of the email
- Save and track sent emails
- Update payment status on each client
- Being able to delete information if it is not relevant or wanted anymore
- Easily access information through a search bar for various elements
- Sorting different elements depending on client demographics and statuses such as paid/ not paid or teacher/ student etc.
- Appealing to look at, where the GUI is user friendly and straightforward with features being evenly spaced out.

Word Count: 113

Summary Of Prototyping Process:

The primary development stages of the GUI prototype were essential to get a clear understanding of what my client desires and more specifically, relevant information to be stored within the database, the look and feel of the GUI, and the actions and tasks that must function. The main changes included:

1. Adding a sorting option within the email tabbed panel in order to select multiple clients at a time
2. Adding a searching function to access the table on the payment tabbed panel in order to more effectively locate desired clients
3. Adding an 'upload' function where the user can upload already-written template emails rather than having to re-write it every time an email needs to be sent.
4. Create an additional tab for email digital history / sent emails

Word Count: 125

Total Word Count: 495