Defining the problem

A client is a group of people working at the front desk of a gym. The job of this one specific person at the desk is to register new members -- both customers and trainers. The person does this by taking out a giant logbook, he hands a pen to new the prospective member. The member fills up the log with their credentials, the person then keys in this data to a Microsoft Excel spreadsheet. This requires the data to be entered twice, and it's quite an inefficient method.

The gym is in my vicinity, and I am a member of that gym. I often worked out at the gym pre-pandemic. The gym is small and compact, with few pieces of equipment -- surely their budget is constrained. As such, the gym cannot afford commercial software to minimize inefficiency.

As a computer science student, I wondered how I can minimize inefficiency using computer software, in other words I wanted to build a system for them that would automate the registration process. The gym owners and employees have not asked for such software from me and had declined the thought of using software to automate the registration process. However, I will attempt to create software for them that fulfills their needs and automates the process.

The Rationale of Proposed Product

The reason I will be using Java is because of its flexibility and across a spectrum of devices and hardware, the Java program -- at a later stage -- could be converted into a full-fledge mobile app for the gym; this would allow online registration. The app will be GUI (Graphical User Interface) focused. Any novice can use the app. As to why I will be using Java specifically is because Java

is primarily focused and targeted for building graphical user interface apps. Along with Netbeans for Java. To store the data, I will need to utilize database software as well.

The application will require specific software to be installed in the device to run. I will attempt to keep the software free and the database online as it would allow for a greater reach of devices.

Success Criteria

- A login page will be there to ensure security.

- Users will have separate windows to add trainers and members.

- The added credentials of the member/trainer will appear beside the data entry form.

- The database will be represented in the form of a table.

- User will be able to add, edit, delete individual logs of information

- To end the program or close the window, there will be a cancel button.

[Word Count: 436]