II

Criterion A - Planning

Defining the Problem:

Client/Advisor Mr xx is a security supervisor in my apartment. Due to the current pandemic situation, couriers are brought to the security place of the apartment then taken by the residents to their respective flat. For now, he is making sure that the guards **use registers to write down information.**

Such system, as per his experience, has led to mainly losing a lot of items as most of the security guards began stealing some items and have written fake information of the courier delivery person. Although the resident is notified by the online store, due to a large of guards working in the apartment it has been extremely hard to track down the perpetrator. In addition, some resident have mistakenly taken the courier and so it is hard to know who has taken it given that the apartment has nearly 500 families residing.

Not to mention the intense time taking process of writing hundreds of couriers on a daily basis. Despite taking multiple checks and balances, the issue is still presiding since most residents take atleast 1+ days to take the courier(s).In the mean time, it is likely that some one takes it and is hard to identify. Consquently, he shared his concern of distress the residents are facing by losing a lot of items lately and have been hard on the security guards.

Please check Appendix A.1 for a transcript of discussion with the client.

225 words.

Rationale for the Proposed Solution:

At first, I have suggested the client to use excel or access as a tool to record all the necessary information in the right way possible. He shared a concern that many security guards do not have enough expertise in recording and managing the information easily.

Considering this problem, I have proposed a management system whereby he can record the information easily with security and doesn’t have to focus on organising information. I have decided to code this program in Python for the following reasons

1. Platform Independent
2. Writing programs becomes efficient using IDLE
3. Python's built-in libraries makes it easy to make GUI on different methods: buttons, tables etc.
4. It's relatively easy to connect to a database with Python compared to others because of its small yet powerful syntax, especially SQL server, for storing information.
    a. There aren't avaiable server which can be used to store such information. Therefore, it has to be done locally.
5. The ability to use Object oriented programming that can help in developing with greater ease, without compromising its complexity.

Please refer to Appendix A.2 for a transcript of discussion with the client

178 words

Success Criteria:

It must be specific and achievable. The validation of the techniques must be done in the video

1. Program will allow the supervisor to fill in the details of the courier successfully
2. Supervisor should be easily be able to access any specific data
3. Program should be able to store the inputs given by the supervisor and present them in the database
4. Program should be able to clear the table with contents if requested by the supervisor
5. Program should be able to exit itself if requested
6. Program should allow the supervisor to delete any specific data part of the database if required
7. In case of any errors in the feed of data, program should automatically give the warning to the supervisor
8. The program should be able to register users along with login with a username and password

9. The program should allow the registers to login into software and get access to the dashboard
10. The program should provide a warning for any incorrect or incomplete fields in the username and password section.

Appendix for Criterion A

- *Add the content to the final appendix at the end.*

Appendix A.1 - Transcript via messages with the supervisor on the apparent problems

Appendix A.2 - Transcript on discussion for potential solutions

Appendix A.3 - Approval by the client on Success Criteria.