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Software Development 1

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Password Generator

I decided to do the password generator application. In addition to this class, I am also taking Data Communication, and one of the most important topics we have covered is cyber security. One of the biggest problems with security is passwords. It is the most common way to secure information since it is basically inexpensive to use. In class, we have notice that for many people it is hard to create a complex and long password that will secure their information, let alone remember it. Personally, I also have problems creating passwords that are considered secure. Passwords can be hacked with a dictionary attack if they are too trivial, but how can we tell if a password is good enough to be secure? The program will fix the problem by giving users a password that is considered secure since it will be a combination of random characters. Ideally, the program will take certain parameters from the user. It will ask the user how long the password would be and how sensitive the information being secure is. According to how complex the password needs to be, there will be different levels of combinations. For more complex password, there will be a combination of special characters, letters, and number. For less complex passwords, there will be a combination of letters and numbers. For not complex passwords, it will simply be a combination of letter or numbers. The complexity of the password will be based on how long the user inputs the password needs to be. This program will be useful, especially for users that require passwords to be more complex to protect their information. Since the passwords are randomly generated, especially for the longer ones, it will be harder/take more time to break it. I am not good at coding, let alone creating programs, so I believe that this project will be challenging enough for my skills.