

I look forward to gaining knowledge in my major by completing an application project. At the moment I am also taking a data communications class where our main focus currently is security. I find cybersecurity to be a very interesting topic, and think I will eventually take it as a minor. Therefore, the Strong password generator really caught my eye. With this generator I could make sure my passwords as well as other people's passwords are secure from dictionary attacks and other kind of reusable password attacks from hackers. I can test the use of diverse characters within the password, as well as the use of capitalization, characters, and numbers. I think the technical aspects of this project are realistic and make sense for me. I personally find this to be very interesting and am excited to see how these types of codes are written and what types of flaws I may come across as well as how I could customize the code to defend against certain types of password hacking programs. I think that a strong password generator has a lot of significance in the real world and to everyone's computer. My program could help test multiple passwords at a time and help people to tell if their information is secure against potential hacks. I think as I research this topic more I will learn a lot about hacking programs that are used to crack passwords and hopefully will be able to prevent those programs from cracking codes I deem as strong passwords with my program. Overall I am excited to create a strong password generator as well as a way to test people's current passwords and tell if they are strong or not. One unique way I may generate passwords for people is implement certain characters that hold meaning to them, but no hacker would understand. For example, have them input their family member's names and use their first initial within the password so that the user doesn't immediately forget the password I generate for him or her. I look forward to starting.