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4/5/2017

Software Development 1

So for my project I am working on a password strength detector that will determine the strength of the users password that they enter. My code will take words, patterns, and phrases that are most commonly used and make sure the user doesn't enter them in as a password. The main reason I chose this as my project is because I think it is a subject that is looked very lightly at, but has a huge impact in the computing and normal society, also because I feel as this topic is very common and used by a lot of people. My system prompts the user to enter in a password, and based on what that password is, it will then tell the user whether or not it is a strong or weak password. It looks for patterns and key words, mainly the most common passwords in the world, and uses those keywords to decide if it is strong or weak, so if a password is "password" it will return weak, because password is the 3rd most used password in the world. My system addresses the problem of user input and interface and how to correctly respond to that information. My system should be used to help create or make different, strong passwords that are different but still have some connection to the user. It should be used just to test the strength of the user's password and to then inform the user whether the password is weak or strong and then give the user some advice on how to change weak passwords. The goals that my system accomplishes is being able to read the user's input and then "scan" that input for any keywords or phrases. It then gives the user feedback on their password.

References: M. A. Weiss, Data Structures and Algorithm Analysis in Java, 3rd Ed.