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<div align="center">Project Milestone - "Strong Password Generator"</div>

The main idea of my project is to make strong passwords easily and efficiently. I have

implemented most of the java code already in order to do so. Originally, I was focusing on how

to randomize a password for the user by obtaining random elements of the ASCII table. After

implementing the code, I began to realize it was not what I had originally intended to develop. I

then came up with a solution to create a password by asking the user for some input. The

questions asked are geared towards personal and easily memorable *things* about his or her life

that others would not be able to know the answer to. Thus, making the password easy to

remember but also difficult for others to find out.

The illusion of the idea is to make the password look as if it is very long and hard to

remember. This way even if someone were to see you type it in, it would be very difficult for

them to decipher because of how many characters are contained within the password. Anybody

other than the user themselves would not be able to memorize the password. This is the main

idea behind what makes the password generated using my application strong.

The reason why I think this application would be widely used is because of how efficient

and easy it is for someone to come up with a strong password for whatever it is needed for. There

have been plenty of time where I have either forgotten my password for a particular account that

I have. I have also become lazy and began using the same password over and over for all my

accounts, making me more susceptible to getting hacked and on multiple accounts. It is just a

pain to come up with a new password every time it is needed. This application will be used to prevent all of that head ache caused by weak passwords or passwords that are hard to remember.

Once the application is finished with asking the user a series of questions, it then randomizes the order of each of the inputs provided. Finally, it prints out the output in a randomized order that can be copy and pasted into whatever it is needed for.

What I plan to do going forward is to add on to the program I already have established in a few ways such as user friendliness, efficiency, and the design. What I mean by design is to make the output displayed in a neat and easily readable format to make the output simple to copy and paste into whatever it should be used for. I also am considering implementing the java code onto a website html document to add more of an artistic touch to the project as a whole. This will enable the application to run through more smoothly and could attract the user more to using the application.

Another aspect I want to add into the password generating application is to ask the user questions on something personal such as, "What is your grandmother's maiden name?", something that only the user would know. This input will then be saved and displayed with the password generated to provide the user with a secret question and response, which is a common part of being able to recover the password generated. This part of the application will be used whenever the user needs to change an old password to a new one. It will increase the security of your account by ensuring that whoever is trying to change the password will not be able to unless they are to user themselves.

Making the application as user friendly as possible is a major priority for my project. I would like to add hints that make the password easy to remember but also discrete so no hackers

can infiltrate the user's account will be added to the application as well. Providing the user with a selection of hints that all pertain to the password generated will make the password easily memorable as well.

I would also like to provide multiple options to the user in regards of passwords to choose from, security questions to user, hints to make the password easily remembered, and even usernames to go along with everything. The goal is to make creating or managing accounts that the user has easy and quick.

I am not completely sure about how I am going to develop the website itself where the application can be accessed. I have ideas such as making the application more attractive by implementing buttons on the website itself. This could make the program much more easy to use and understandable so that people who are not so great with technology can easily use the application.

Implementing error messages to pop up if the user inputs information incorrectly and then asking the user to try again is another important aspect of this application. This will make it so users do not get stuck trying to figure what they did wrong and will make the process more efficient and friendly.

There is still plenty of work to be done but the ideas are all there and the main objectives of the application have already been accomplished. By the end of the process, the application will even have a catchy name and logo to display the looks of the icon to launch to program. People won't have to stress about remembering which password is used for which account. The goal of technology is to make things easier for people and that is the basis of my whole idea for this application.