

Random Password Generator

_____After a lot of starting over and reworking projects, I settled on creating a random password generator that would create a password almost impenetrable to Brute Force attacks. I got this idea after finding the website <https://howsecureismypassword.net/>. After testing a few of my passwords and being pretty satisfied with the complexity, I showed it to my wife and was thoroughly disappointed in her results. The website said it was able to crack her password for all of her accounts in milliseconds. That won't fly with me. So the RPG was born.

Besides the CSS side of things, I spent a lot of time working on the logic for my settings to be able to manipulate your result to your desired length (between 8-64 characters) and whether or not to include numbers and special characters in your password. One of the best things that came from working through this logic was that I learned a new way to use conditional statements using the Ternary Operator (Condition ? ifTrue : ifFalse). This quickly cleaned up my code from the giant if else statement I had written into two simple lines.

After creating the logic for my settings section of my project, I needed to create the function to actually generate the password! This took me some time, with learning the new way to write conditionals, to realize how to accept those conditions. I did this by creating a stored variable, that at it's base would only accept letters (which I had to pre-define) with a pre-set length already set. If either statement were checked for numbers or special characters, I had to update that variable to include all parameters of those pre-defined variables (letters, numbers, special characters).

For my last feature, I figured that if you decided to have a giant password, it'd be quite the pain to highlight the entire text and then click control C, that's too much work and needed to be sorted. So I added a copy button! This was also super cool to me, because I had no idea it was even

possible until I found the “execCommand” method. Using this feature allowed me to create a clickable button that would highlight the generated password in it’s entirety and copy it to your clipboard! I thought that was too cool! I also decided to spruce it up a bit by using a tool fontawesome.com to change the button to an image and I also used “Sweetalert” to get rid of the nasty alert the browser uses as a default with a more approachable alert.

Although the project was pretty stressful at times, especially CSS (I cannot stress that enough), I had a ton of fun and will continue messing around with this project and adding more and more features to it! I was able to apply things I had learned while simultaneously learning new concepts and methods to achieve what I imagined in my head!

Project: <https://random-pswrd.herokuapp.com/>