Console font:

<https://freefontsdownload.net/free-consolas-font-33098.htm>

Listing different types of attacks:

<https://www.guru99.com/how-to-crack-password-of-an-application.html>

Common Passwords Attacks:

(Levenschtein Distance Algorithm)<https://en.wikipedia.org/wiki/Levenshtein_distance>

(Password Database)<https://github.com/danielmiessler/SecLists/blob/master/Passwords/Common-Credentials/10-million-password-list-top-1000000.txt>

I used the following link to get a list of hash:password in a text file:

https://hashes.org/hashlists.php

I specifically chose the found hashes of "HK 28827.bob" ID which solved MD5 hashes.

I used the following source to get an implementation of the md5 algorithm:

https://www.baeldung.com/java-md5 using MessageDigest class

I used the following source to get an implementation of converting a byte array to a hexadecimal string:

<https://stackoverflow.com/questions/2817752/java-code-to-convert-byte-to-hexadecimal/50846880>

I used the following link for the characterset classification system (alpha vs loweralpha etc):  
freerainbowtables.com

I used the following link to get a number which represents the expected number of guesses/second for an average computer:  
<https://www.expressvpn.com/blog/how-attackers-brute-force-password/#:~:text=How%20quickly%20an%20attacker%20can,about%20100%2C000%20guesses%20per%20second>.

Rainbow table attack:

<https://en.wikipedia.org/wiki/Rainbow_table>

Brute Force attack:

<https://en.wikipedia.org/wiki/Brute-force_attack>

An estimate of how GPUs correspond to guesses/second:

Based on the linked source[0], a good generalization to get the number of MD5 hashes/second is to multiply the shader clock by the number of cores / 8 (pg 40), and extrapolate from the chart (pg 56). For Nvidia, the shader clock is almost always twice the speed of the core clock[1]. Since each attack’s instruction cycles per guess largely depends on the algorithm being implemented, we aimed for accuracy and decided to factor out the time it takes for an algorithm to generate a guess, leaving a floor for the number of guesses per second equal to the number of MD5 hashes per second.

[0]<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKEwjgjIi4-5HqAhUWGTQIHVJDDrQQFjAEegQIBRAB&url=https%3A%2F%2Fwww.ru.nl%2Fpublish%2Fpages%2F769526%2Fthesis.pdf&usg=AOvVaw11lbEV0yAlmMrS5GQ-paYO>

[1]<https://linustechtips.com/main/topic/182694-whats-the-difference-between-shader-clock-and-core-clock/>

GPU spec information:

<https://en.wikipedia.org/wiki/List_of_Nvidia_graphics_processing_units#GeForce_100_series>

<https://www.gpuzoo.com/GPU-NVIDIA/GeForce_GTX_570.html>  
<https://www.gpuzoo.com/GPU-NVIDIA/GeForce_GTX_670.html>  
<https://www.gpuzoo.com/GPU-NVIDIA/GeForce_GTX_770.html>  
<https://www.gpuzoo.com/GPU-MSI/Geforce_GTX_970_Gaming_Lite_Edition_-_GTX_970_GAMING_4G_LE.html>  
<https://www.gpuzoo.com/GPU-NVIDIA/GeForce_GTX_1070.html>  
<https://www.techpowerup.com/gpu-specs/geforce-rtx-2070.c3252>

gpu costs

<https://www.ebay.ca/b/NVIDIA-GeForce-GTX-670-NVIDIA-Computer-Graphics-Cards/27386/bn_110679343>  
<https://www.ebay.ca/b/NVIDIA-GeForce-GTX-770-NVIDIA-Computer-Graphics-Cards/27386/bn_110679179>

<https://www.ebay.ca/b/MSI-NVIDIA-GeForce-GTX-970-Computer-Graphics-Cards/27386/bn_110680441>  
<https://www.ebay.ca/b/NVIDIA-GeForce-GTX-1070-Computer-Graphics-Cards/27386/bn_99097757>  
<https://www.ebay.ca/b/NVIDIA-GeForce-RTX-2070-NVIDIA-NVIDIA-Computer-Graphics-Cards/27386/bn_7116470335>

testing/comparison websites

<https://howsecureismypassword.net/>

<https://www.my1login.com/resources/password-strength-test/>

<http://www.passwordmeter.com/>

<https://password.kaspersky.com/>

dictionary website

[https://web.archive.org/web/20120420175529/http://www.sitopreferito.it/html/all\_english\_words.html](https://web.archive.org/web/20120420175529/http:/www.sitopreferito.it/html/all_english_words.html)

gpu websites

https://www.techpowerup.com/gpu-specs/