

Password Strength Checker

Overview:

This is a Python-based Password Strength Checker tool. It evaluates the strength of a user's password by checking its length and the inclusion of uppercase letters, lowercase letters, digits, and special characters. Based on these criteria, the password receives a score and a strength classification: Weak, Moderate, or Strong.

Features:

- Minimum password length check (at least 8 characters)
- Checks for uppercase letters (A-Z)
- Checks for lowercase letters (a-z)
- Checks for digits (0-9)
- Checks for special characters (punctuation)
- Provides a numeric score and strength level based on the checks
- Suggests improvements when the password is not strong
- Logs password strength results using a pandas DataFrame

Requirements:

- Python 3.x
- numpy
- pandas

Usage:

1. Run the script.
2. Enter your password when prompted.
3. View the password strength, score, and suggestions for improvement.
4. See a log of the password strength evaluation.

Example:

=====PASSWORD STRENGTH CHECKER=====

Enter your password: Example@123

Password Strength: Strong
Score: 5 / 5

Password strength log:

Password Score Level
0 Example@123 5 Strong

Thank you for using Password Strength Checker!