Password Complexity Checker

Overview

The Password Complexity Checker is a Python-based tool designed to evaluate the strength of passwords. It provides feedback on password strength and highlights areas for improvement based on predefined criteria.

Features

- Checks if a password meets the following complexity requirements:
 - Minimum length of 8 characters
 - o Contains at least one digit
 - Contains at least one uppercase letter
 - Contains at least one lowercase letter
 - Contains at least one special character (e.g., !@#\$%^&*(), .?\":{} |<>)
- Categorizes passwords as Strong, Moderate, or Weak based on the number of criteria met.
- Provides detailed feedback for passwords that do not meet all requirements.

Requirements

• Python 3.6 or higher

Usage

- Run the program: python password complexity checker.py
- 2. Enter a password when prompted, and the tool will evaluate its strength and provide feedback.
- 3. To exit the tool, type exit when prompted for a password.

Example

Input:

Enter a password to check (or type 'exit' to guit): P@ssw0rd

Output:

Password strength: Strong

Input:

Enter a password to check (or type 'exit' to quit): pass123

Output:

Password strength: Weak

Issues:

- Password must contain at least one uppercase letter.
- Password must contain at least one special character (!@#\$%^&*(),.?\":{}|<>).

License

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Acknowledgments

• Python's re module for regular expressions.